

The differentially expressed mRNAs between ACC and normal control samples

mRNA	logFC	P value	adj.P.Val
CBLN4	-3.102599211	8.87E-10	8.96E-06
IGFBP6	-4.806368701	1.08E-09	8.96E-06
DCN	-4.718210054	1.35E-09	8.96E-06
TMEM200C	-4.887636149	2.40E-09	1.19E-05
AC099489	3.236409652	2.20E-08	8.76E-05
ANGPT2	3.56982431	2.70E-08	8.95E-05
PPBP	-3.733724509	4.01E-08	9.05E-05
BTG2	-2.926543721	4.85E-08	9.05E-05
AADAC	-6.948159019	5.18E-08	9.05E-05
SLC16A9	-2.383897416	5.30E-08	9.05E-05
WFDC1	-3.926764084	5.88E-08	9.05E-05
LRFN5	-4.505274885	5.91E-08	9.05E-05
AKR7A3	-1.904664005	7.80E-08	0.000110864
PLD3	1.556780608	8.52E-08	0.000113007
AMDHD1	-2.656205758	1.02E-07	0.000123343
ZBTB22	2.0083465	1.09E-07	0.000123343
ST6GALNAC5	-3.890855056	1.17E-07	0.000123343
CRHBP	-5.19531624	1.25E-07	0.000123343
CYP4Z1	-2.848986681	1.29E-07	0.000123343
GAPDHS	3.342301744	1.59E-07	0.000131253
ZNF124	1.453516034	1.61E-07	0.000131253
CD55	-2.501808223	1.64E-07	0.000131253
TKFC	-3.062934538	1.65E-07	0.000131253
RASGRP2	-2.010486702	1.99E-07	0.000152195
INCENP	1.347375838	2.14E-07	0.000153451
DGKG	-2.389024797	2.16E-07	0.000153451
IL17C	1.701249719	2.37E-07	0.000162667
BABAM2	-2.24579704	2.53E-07	0.000167811
LNP1	1.59303754	2.63E-07	0.000169152
SPN	1.792243123	3.30E-07	0.000205408
OMD	-3.817448139	3.65E-07	0.00021859
CHAD	-2.567191465	4.47E-07	0.000248345
IRF4	1.745933865	4.60E-07	0.000248345
SRPX2	-3.296564157	4.62E-07	0.000248345
SULT1E1	-3.704521398	4.98E-07	0.000260911
DYNC1LI2	-1.412540034	5.60E-07	0.000275728
FBLN1	-2.266035368	5.68E-07	0.000275728
SPINK13	3.767275093	6.10E-07	0.000286817
NPY5R	-3.535212404	6.20E-07	0.000286817

AZIN2	-1.982291559	6.57E-07	0.000290543
SIRT1	-2.105669659	7.55E-07	0.000313719
MDFIC	-1.968622727	7.72E-07	0.000313719
PYY	-2.835126574	8.31E-07	0.000324125
RAB33B	1.357791681	8.64E-07	0.000330579
C11orf91	2.214813601	8.98E-07	0.000337217
XKR4	2.175660716	9.45E-07	0.000337919
RALYL	-4.417657293	9.51E-07	0.000337919
MYC	-2.191328831	1.10E-06	0.000382444
CTH	-3.466122782	1.12E-06	0.00038532
LYPD8	1.824208075	1.16E-06	0.000389589
CLDN9	2.031782585	1.26E-06	0.00041489
NTRK3	-2.515230209	1.27E-06	0.00041489
MRPL16	-1.166298547	1.30E-06	0.000415849
NDE1	1.279264407	1.44E-06	0.00044777
KCNK2	-2.05748278	1.53E-06	0.000466212
STEAP4	-2.22294998	1.58E-06	0.000466212
SPON2	-1.588461548	1.59E-06	0.000466212
TFF2	1.679973444	1.64E-06	0.000471772
APOBEC3G	-2.092277097	1.83E-06	0.000516054
RARRES1	-2.910464022	1.84E-06	0.000516054
IQGAP1	-2.129294655	2.21E-06	0.000587089
IL1RL1	-2.640700766	2.34E-06	0.000611809
GLUD2	-1.944925572	2.40E-06	0.000621252
FUT6	1.776835264	2.53E-06	0.000636666
ZNF275	2.040565	2.68E-06	0.000659798
IGFBP5	-2.49651733	2.69E-06	0.000659798
CYB5RL	-1.811892799	3.15E-06	0.000738511
TMEM132A	1.233045028	3.42E-06	0.000774293
SLC30A7	-1.857042947	3.48E-06	0.000778128
OSBPL6	3.38791296	4.00E-06	0.000884481
CSNK1A1L	1.898906085	4.05E-06	0.00088515
SH2D7	1.30609676	4.13E-06	0.000894363
RPL7L1	-1.856467476	4.33E-06	0.000917397
AMT	-1.625296277	5.12E-06	0.001049874
SEMA4D	1.228934783	5.78E-06	0.001154203
MNDA	-2.48893058	5.85E-06	0.001154203
BPNT1	-2.006452632	5.95E-06	0.001154203
BHMT2	-1.983160264	5.95E-06	0.001154203
C6orf203	-1.147103908	6.12E-06	0.001158398
PARK7	-1.420210164	6.25E-06	0.001158398

SPATA22	-2.099450453	6.25E-06	0.001158398
SEPT4	-3.05143375	6.42E-06	0.001158398
PTPN18	-2.555109057	6.46E-06	0.001158398
SCAI	-1.579754218	6.52E-06	0.001158398
DCAF6	-1.52164102	6.71E-06	0.001181809
EIF3I	-1.254977438	6.79E-06	0.001184625
DLG2	-1.685076086	7.01E-06	0.001213023
MAP3K5	-2.37433861	7.59E-06	0.001291212
PLA2G4A	-1.77036811	7.88E-06	0.001318638
MGP	-2.215100749	8.03E-06	0.001331272
CTSH	-1.616768217	8.18E-06	0.001340401
TSPAN16	1.567465536	8.25E-06	0.001340401
CD163	-2.039506694	8.31E-06	0.001340401
LAMB2	1.607217433	8.41E-06	0.001340401
NR1H3	-2.336252871	8.44E-06	0.001340401
GPS1	1.097281391	8.49E-06	0.001340401
VSIG4	-1.3143538	8.63E-06	0.00134311
PF4V1	-2.76172533	8.64E-06	0.00134311
PLAC9	-1.514751606	8.88E-06	0.001370325
KYNU	-2.28288167	9.78E-06	0.001474917
SHF	2.346415084	1.01E-05	0.001503452
NKX6-3	-2.080049747	1.01E-05	0.001503452
LHB	1.510561816	1.03E-05	0.001508824
CCDC90B	1.275233243	1.04E-05	0.001508824
FXVD3	1.05936415	1.06E-05	0.001519282
ZEB2	-1.700366919	1.07E-05	0.001519282
SLC46A1	-1.507324593	1.10E-05	0.00154134
GRK3	-1.462950588	1.12E-05	0.00155529
TNFRSF11B	-3.531513701	1.14E-05	0.001580407
MRPL40	-1.30700781	1.16E-05	0.001593837
NPY1R	-1.617669048	1.19E-05	0.001620158
MICALL2	-1.659039372	1.20E-05	0.001627117
ECE2	1.641985327	1.22E-05	0.001634562
FBXO9	-1.286193429	1.24E-05	0.001637473
OSCAR	1.295576442	1.25E-05	0.001637473
AS3MT	-3.905034597	1.25E-05	0.001637473
FBLN5	-3.347226991	1.28E-05	0.001657029
TBXAS1	-1.44881943	1.28E-05	0.001657029
FANCC	1.445771574	1.30E-05	0.001663774
ASIC3	1.411562433	1.34E-05	0.001708448
TSPAN15	1.840464083	1.44E-05	0.00182069

PTPMT1	-1.370614116	1.45E-05	0.00182069
ZNF165	1.415880653	1.50E-05	0.001865061
HCLS1	-1.429094139	1.55E-05	0.001883157
PNKD	-1.361923608	1.55E-05	0.001883157
CT45A1	1.277507479	1.55E-05	0.001883157
TPPP2	-1.355189206	1.59E-05	0.001915437
MYLK	-1.720404123	1.63E-05	0.001944004
PTGER1	-1.382477156	1.66E-05	0.001969272
PEBP4	-1.96002464	1.68E-05	0.001971137
TMEM97	1.261467064	1.69E-05	0.001971137
ASAP2	1.257719971	1.69E-05	0.001971137
FRMPD2	2.043048703	1.73E-05	0.00200266
ZNF300	1.753917443	1.74E-05	0.00200266
MTA3	-1.458656417	1.81E-05	0.00205661
NXPH1	-4.492432742	1.87E-05	0.002103272
OR8B12	1.072692538	1.93E-05	0.002160623
SLC22A1	1.703289176	1.95E-05	0.002160623
ARNTL	-1.712857519	1.95E-05	0.002160623
HTR4	1.436776111	1.98E-05	0.002167155
ARL4D	1.303367821	1.99E-05	0.002167155
ADAP2	-2.252259724	2.00E-05	0.002167155
MAPK11	1.308221275	2.01E-05	0.002167155
TFF3	-3.732135615	2.02E-05	0.002167155
CDIP1	1.002980028	2.03E-05	0.002167155
GALP	1.356431429	2.05E-05	0.002176497
ZNF264	-1.726247094	2.06E-05	0.00217961
TYROBP	-1.304018314	2.07E-05	0.00217961
NHS	1.321080463	2.08E-05	0.002183256
FXYP1	-2.34577304	2.13E-05	0.002184416
BORCS7-ASMT	-3.635762044	2.13E-05	0.002184416
C1QTNF4	1.63000219	2.13E-05	0.002184416
HAUS4	-1.434049092	2.14E-05	0.002184416
ADAMTSL3	-1.761152693	2.16E-05	0.002184416
MILR1	-1.514310866	2.17E-05	0.002184416
GLA	1.923426668	2.19E-05	0.002184416
AL024498	-1.60920029	2.21E-05	0.002184416
PSMA8	1.07263462	2.21E-05	0.002184416
NEK2	2.828197324	2.22E-05	0.002184416
COX4I2	1.483977514	2.35E-05	0.002285371
MND1	2.153668213	2.35E-05	0.002285371
ACAA2	-2.014340476	2.38E-05	0.002292281

CNN3	-2.432630038	2.40E-05	0.002292913
CLMP	-1.84708386	2.44E-05	0.002313802
HPSE	-1.662188048	2.49E-05	0.002333628
SPINK1	2.607937405	2.49E-05	0.002333628
KRTAP2-4	1.605782842	2.51E-05	0.002333628
MRPS22	-1.36885678	2.51E-05	0.002333628
EBPL	-1.232540872	2.55E-05	0.002351743
BCL6	-1.113842543	2.55E-05	0.002351743
RIOK1	-1.162656145	2.61E-05	0.002397234
CCL2	-3.934463848	2.66E-05	0.002427182
TMEM35B	-1.429691571	2.68E-05	0.002435322
TMEM173	-1.180696513	2.69E-05	0.002435787
SERP1	-1.299111292	2.73E-05	0.002456302
RFLNA	1.636876376	2.78E-05	0.0024896
KCTD1	-1.510677695	2.79E-05	0.002489738
ALOX5	-1.120150829	2.83E-05	0.002511061
AOX1	-3.057864042	2.85E-05	0.002511739
DNA2	1.143192849	2.87E-05	0.002511739
COPS9	1.056903834	2.98E-05	0.002600729
TMEM14C	-1.587671789	3.12E-05	0.002674009
C11orf74	-1.136722229	3.14E-05	0.002678249
HOXA5	-4.072425567	3.17E-05	0.002688389
TCP11	1.5190199	3.17E-05	0.002688389
FBXO46	1.06287218	3.21E-05	0.002688583
FAM71E1	1.687071747	3.21E-05	0.002688583
TNFSF12-TNFSF13	-1.316465221	3.22E-05	0.002688583
SPOCD1	1.185103669	3.23E-05	0.002688583
NEDD4L	-1.684390877	3.51E-05	0.002892881
PTGER4	-1.702692995	3.52E-05	0.002892881
MAMDC2	-3.138446887	3.60E-05	0.002932869
PYGL	-1.755461826	3.62E-05	0.002932869
FOXD2	-1.624877266	3.65E-05	0.002932869
GPM6B	-1.145374806	3.78E-05	0.002959931
MT1M	-2.758261103	3.81E-05	0.002973658
SKP2	1.521123814	3.87E-05	0.003011488
HSCB	-1.498778817	3.96E-05	0.003069962
NEXN	-2.699911805	4.00E-05	0.003083037
ZNF331	-3.163022689	4.19E-05	0.003217625
SYNGAP1	1.248536285	4.25E-05	0.003246007
ADH1B	-3.073766152	4.26E-05	0.003246007
LTO1	-1.531604882	4.27E-05	0.003246007

C2orf40	1.166805933	4.33E-05	0.00327849
USP36	-2.497168958	4.43E-05	0.00331643
ST3GAL6	-2.259316175	4.45E-05	0.00331643
RPL22	-1.317762688	4.46E-05	0.00331643
CBY1	-1.295443733	4.47E-05	0.00331643
KCNJ8	-2.780281475	4.55E-05	0.00335769
HOXD10	1.417288176	4.57E-05	0.00335769
PEX11A	-1.46426951	4.57E-05	0.00335769
MRPL33	-1.514388179	4.65E-05	0.00338712
FAM117B	-1.800097301	4.65E-05	0.00338712
KIF5A	1.730359118	4.74E-05	0.00341009
PLPP7	1.136461057	4.76E-05	0.00341009
SORBS2	-1.429668779	4.77E-05	0.00341009
UHRF1	1.406036633	4.79E-05	0.00341009
ADAMTS2	-1.225354385	4.80E-05	0.00341009
RPS8	-1.549373073	4.87E-05	0.003446665
PPP1R18	1.366352736	5.13E-05	0.003595726
RTP5	1.165345696	5.13E-05	0.003595726
TMEM220	-1.551914364	5.25E-05	0.003654904
C2orf16	1.264046548	5.26E-05	0.003654904
JUNB	-1.932134048	5.35E-05	0.003670059
ATP6V1B1	1.797125246	5.44E-05	0.003719912
MRPL44	-1.260157572	5.50E-05	0.003751767
RNF141	-1.4881347	5.58E-05	0.003788119
SFRP4	-3.296983882	5.86E-05	0.003924931
JAZF1	-1.424288029	5.90E-05	0.003924931
TSPAN32	1.040766894	5.91E-05	0.003924931
TDRD10	-2.063883741	5.92E-05	0.003924931
GMPR	-1.223051929	5.96E-05	0.003929019
DEPTOR	-2.156180696	6.02E-05	0.003956585
ACADVL	-1.77458294	6.17E-05	0.004026557
HSD3B2	-6.902331922	6.22E-05	0.004034452
SEC11A	1.359483281	6.23E-05	0.004034452
PTMS	1.396946931	6.24E-05	0.004034452
LRRC37A3	2.095136577	6.32E-05	0.004067872
ABCB1	-2.883407353	6.39E-05	0.004087307
MFSD2B	1.447092081	6.45E-05	0.004106921
TTC39C	-1.22785776	6.48E-05	0.004106921
BAAT	1.200762019	6.48E-05	0.004106921
SUGCT	-1.722440539	6.57E-05	0.004152647
SLC25A17	-1.513775845	6.63E-05	0.00417419

TMEM256-PLSCR3	1.400142794	6.66E-05	0.004182411
HDDC2	-1.113732704	6.71E-05	0.004199242
PACSIN3	-3.209172358	6.77E-05	0.004220871
HLF	1.621025504	6.85E-05	0.004249016
KRTAP13-3	1.157415361	6.85E-05	0.004249016
FGGY	-1.162740022	6.88E-05	0.004254642
PRDM7	1.037781972	6.93E-05	0.004272248
ADAMTSL5	1.089893812	7.03E-05	0.004290716
S100A4	-1.432469486	7.08E-05	0.004303725
SMCR8	1.130170496	7.11E-05	0.004303725
NDRG2	-1.516296935	7.23E-05	0.004345625
PIGV	-1.108074861	7.29E-05	0.00436795
COLEC11	-1.343436838	7.33E-05	0.004373139
FAM222A	1.638614784	7.36E-05	0.004374426
TTC38	-1.35286296	7.56E-05	0.004467005
LRRC4	1.124245246	7.61E-05	0.004470094
CAT	-2.687664775	7.61E-05	0.004470094
PGA4	-2.101015018	7.67E-05	0.004473392
SLC25A51	1.538917377	7.74E-05	0.004503939
SEMA6C	1.058389299	7.84E-05	0.004525247
SPATA6	-1.789169143	7.86E-05	0.004525247
C17orf51	1.13589377	7.88E-05	0.004525247
SLC2A3	-2.059158361	7.90E-05	0.004525247
GPR158	1.029456579	8.03E-05	0.004547817
AVPR1A	-3.837088767	8.04E-05	0.004547817
FDCSP	2.283352438	8.07E-05	0.004547817
SPRR2B	2.978862193	8.07E-05	0.004547817
BHLHB9	1.997317089	8.14E-05	0.004577356
ACYP1	-1.481896385	8.22E-05	0.004609481
NLRC4	-1.747908727	8.25E-05	0.004612673
SH3BP1	1.141911392	8.31E-05	0.004623761
ZNF780B	-1.021687731	8.35E-05	0.004623761
VANGL1	-1.539798141	8.36E-05	0.004623761
BOD1L2	1.052373888	8.41E-05	0.004633767
S100A9	-2.800916707	8.52E-05	0.004673325
FAM86B1	1.394248791	8.59E-05	0.004685704
CREBL2	-2.103660916	8.75E-05	0.004757584
WNT5A	1.254416085	8.86E-05	0.004791879
AP001267	-1.570589218	8.96E-05	0.004830717
RPS9	-1.4295622	9.14E-05	0.00488578
ACAA1	-1.243261166	9.15E-05	0.00488578

GPX8	2.592620088	9.21E-05	0.00488629
MNS1	1.651622223	9.32E-05	0.00491803
KIF16B	-1.907891755	9.41E-05	0.004939143
LUM	-3.997567553	9.57E-05	0.005004813
NME3	-1.484000055	9.58E-05	0.005004813
PUM1	-1.08627932	9.61E-05	0.005004813
CFH	-2.069381699	9.76E-05	0.005072536
PCDH7	-2.056648972	9.82E-05	0.005089525
SMTN	-1.248266338	9.86E-05	0.00509521
LRRN3	-3.164342949	9.93E-05	0.00509521
EEF1A1	-1.608346417	9.94E-05	0.00509521
THEM4	-1.591311429	9.96E-05	0.00509521
TAGLN2	1.147914019	0.000100872	0.005147317
C1orf53	-1.547903381	0.000102199	0.00519171
IQCA1L	1.646127584	0.000102264	0.00519171
PFDN4	1.097626501	0.000102805	0.005205897
EMCN	-2.257322947	0.000103101	0.005207655
WARS2	-1.056961606	0.000104582	0.005265423
CBFA2T3	1.069789266	0.000105007	0.005265423
SMYD4	-2.066624707	0.000105965	0.005285225
VAR5	1.458502171	0.000107065	0.005309006
KIF26B	-2.186835644	0.000107112	0.005309006
KCNK12	1.271727869	0.000107242	0.005309006
LYZL4	1.558362972	0.000108755	0.005358298
CTSV	1.180280391	0.00011011	0.005358298
ANAPC15	-1.050048784	0.000110371	0.005358298
SULT2B1	1.217858073	0.000110539	0.005358298
CCDC68	-2.072756484	0.000111208	0.005358298
TMEM108	-2.075103927	0.000111528	0.005358298
TMEM204	-1.4363485	0.000111789	0.005358298
TIFAB	1.297442051	0.000112134	0.005358298
NEIL3	1.944800296	0.000112276	0.005358298
KRT71	1.590165794	0.000112846	0.00536649
MYH11	-1.546005621	0.000112987	0.00536649
KRT80	1.28695435	0.000113835	0.005377723
RPL3	-1.002585296	0.000113999	0.005377723
SGK2	1.171212329	0.000114521	0.005381822
MRPL24	-1.047268908	0.000114662	0.005381822
UGT2B17	1.168373438	0.000115712	0.005401145
SLC8A2	1.225275267	0.000115845	0.005401145
OR4D5	1.17765211	0.000115888	0.005401145

ST8SIA1	-3.016988242	0.000116894	0.005422635
HCFC1	1.057264298	0.000122583	0.005612737
CYP11B2	-4.071981615	0.000122684	0.005612737
EIF2D	-1.603481264	0.000126158	0.005732137
TFAP4	1.233136602	0.000127288	0.005767448
FBP2	-1.14773306	0.000127515	0.005767448
SHISAL1	1.093317382	0.000129627	0.005839974
MS4A6A	-1.354729318	0.000131117	0.005865002
PMP22	-1.716580158	0.000131333	0.005865002
PRKCQ	-1.456816173	0.000131624	0.005865002
BRK1	-1.202283113	0.000131735	0.005865002
ABCC3	-2.398634178	0.000132734	0.00587019
ABCG1	-1.426496534	0.000132736	0.00587019
AP002990	1.537249395	0.000133807	0.005904407
ITM2A	-1.876882294	0.000136977	0.005951909
PLTP	-1.700993873	0.000137352	0.005955209
EGFLAM	-1.53423757	0.000141623	0.006113734
ALG14	-1.143676323	0.000141935	0.006113964
NMNAT1	-1.292565404	0.000142349	0.00611853
HK2	3.20148269	0.000143213	0.006137936
NANOG	1.289173995	0.00014369	0.006137936
SLC6A19	1.424600973	0.000143725	0.006137936
TFDP3	1.185595043	0.000144423	0.006154509
TRPC7	1.609442336	0.000145471	0.006185919
ARL5A	-1.58007382	0.000146369	0.00621085
HSPA6	-2.211893057	0.000146961	0.006211734
SHROOM3	1.910756251	0.000148015	0.006211734
RAB31	-2.040846646	0.000148344	0.006211734
CTNNA1	-1.772754933	0.000148628	0.006211734
AK1	1.772838071	0.000148874	0.006211734
IER3	-2.187311172	0.000148887	0.006211734
EIF3D	-1.108780361	0.000149737	0.006223801
UTP11	-1.229577467	0.000149838	0.006223801
DHRS1	-1.048622953	0.000151041	0.006223801
RWDD2A	-1.380319884	0.000151115	0.006223801
TAGLN	-2.69692135	0.000154105	0.006310369
IAH1	-1.289524	0.000156486	0.006329738
IGF1	-1.6434539	0.000156856	0.006331836
RGL3	1.53478344	0.000157218	0.006333614
SDF2	-1.479979839	0.000160397	0.006435586
MRPS18A	-1.26090377	0.000161387	0.006449314

DEPDC1B	3.222651067	0.000163002	0.006485971
NPIP5	1.008102719	0.000163555	0.006485971
COMMD6	-1.313722096	0.000163934	0.006485971
CSF1	-1.322825241	0.000165668	0.006528631
UBE2J2	-1.044920042	0.000166782	0.006559541
PBX3	-1.004248915	0.00016776	0.006572036
NEMF	-1.067431229	0.000169944	0.006644491
SKA3	2.073534141	0.000171549	0.006680998
CDYL2	1.948398839	0.000172536	0.006693249
NR2F2	-1.78420115	0.000173705	0.006699438
GYPC	-2.121366357	0.00017483	0.006729761
PLEKHA4	-1.478409581	0.000175183	0.006730348
CREM	-2.123462124	0.000175966	0.006747397
ARHGAP24	1.500683083	0.000176848	0.006768192
FMC1	-1.240640913	0.000177704	0.006787869
SSR2	-1.628490244	0.000179438	0.006840982
DUSP15	1.411027586	0.000181131	0.006865574
SCCPDH	-2.2074764	0.00018173	0.006865574
CYP11B1	-4.233101128	0.000181808	0.006865574
ATPAF1	-1.079666004	0.000182687	0.006885694
ZNF778	1.251793674	0.000183554	0.006905322
CDH2	-4.016670866	0.000184193	0.006916268
ARHGAP15	-1.141467908	0.0001862	0.006955774
CEP350	-1.599261126	0.000186703	0.006955774
MTRF1	-1.349635338	0.000186993	0.006955774
TMEM184A	1.043924801	0.000188408	0.006995345
GIMAP1	-1.40528292	0.000189501	0.007009779
ZFP37	1.653549843	0.000190002	0.007015264
CPLX2	1.535881779	0.000191221	0.00702438
PHF21B	1.472659888	0.000191388	0.00702438
H2AFY2	1.50127233	0.000191661	0.00702438
ANO3	-2.224991082	0.000193107	0.007064372
HOMER1	2.849688928	0.000194387	0.007088537
NCF4	-1.335433582	0.00019448	0.007088537
RPL10A	-1.33413039	0.000197356	0.007174687
PGPEP1	-1.483056591	0.000198116	0.007174687
DBR1	1.175145604	0.000198564	0.007174687
SLC25A20	-2.229803272	0.000198646	0.007174687
KRTAP4-2	1.54067476	0.000201178	0.007226782
CHRM1	1.356174269	0.000202579	0.007247257
RPL21	-1.364627879	0.00020284	0.007247257

IDH1	-2.219318583	0.000209013	0.007404649
SLC37A2	-2.839314573	0.000209106	0.007404649
C7orf55-LUC7L2	-1.445261624	0.000210468	0.007439641
CSF2RA	-1.26726973	0.000212472	0.007466699
DES	-3.612952946	0.000213164	0.007466699
ACTN1	-1.081470274	0.000213425	0.007466699
HSD3B1	-6.166533326	0.0002136	0.007466699
SIGLEC9	-1.720073121	0.000213661	0.007466699
NDUFA4L2	1.175949596	0.000214158	0.007466699
NCBP2L	-1.078586782	0.000216215	0.007519681
KIAA0513	1.024476881	0.000218231	0.007566243
CASP9	-1.620563723	0.000219632	0.007586169
ANKRD35	-2.405001441	0.000221607	0.00761694
ST6GALNAC6	-1.333224384	0.000222326	0.007628477
MMP15	1.145888113	0.000226309	0.007747441
VEGFC	-2.041118264	0.000226752	0.007747441
DOK2	-1.527198067	0.000228218	0.007748123
ZNF560	2.836564002	0.000229389	0.007748123
SIGLEC1	-1.731979981	0.000229571	0.007748123
DAPL1	-7.169741029	0.00022961	0.007748123
EXOSC7	-1.067174338	0.000230096	0.007748123
ACSL6	1.038117961	0.000231412	0.007779289
ZFYVE21	-1.104315198	0.000234712	0.007853432
C1orf116	1.082870768	0.000236814	0.007899819
C11orf96	-2.700621693	0.000237626	0.007908021
OR13H1	1.498033943	0.000238467	0.007910432
CDH19	-1.303603805	0.000238995	0.007910432
ADH1A	-4.316076954	0.000239288	0.007910432
PLPPR3	1.304278369	0.000243728	0.008039344
ZC3H13	1.165223015	0.000244144	0.008039344
CAMSAP2	-1.78827169	0.000245516	0.008039344
FAM181B	1.238262744	0.000245576	0.008039344
TRIM49D2	3.774296779	0.000245579	0.008039344
PEX7	-1.127839319	0.000245612	0.008039344
RWDD4	-1.654127009	0.0002474	0.008042909
MAP3K8	-1.576958604	0.000247465	0.008042909
ELOVL7	1.455565974	0.000247741	0.008042909
NAALAD2	-2.573965928	0.000249025	0.008060297
HYKK	-1.391143814	0.000249418	0.008060297
ZIC2	1.154815839	0.000249598	0.008060297
EPN3	1.210294084	0.000250884	0.008060297

KLHL29	4.4582678	0.0002514	0.008060297
CABLES2	1.29394516	0.00025143	0.008060297
CRYL1	-1.53334639	0.000251611	0.008060297
CNBD2	-1.401511866	0.000252086	0.008060297
DEFB131B	1.249604032	0.00025236	0.008060297
C1QB	-1.221059271	0.000252619	0.008060297
FOS	-4.317901214	0.000252732	0.008060297
ART4	-2.479387994	0.000255403	0.008126058
MT1A	-3.163657858	0.000256817	0.008138402
EME1	1.670643876	0.000259624	0.00820712
ESCO2	1.011333231	0.00025981	0.00820712
TMEM74B	2.094091378	0.000263147	0.008286231
KRT5	1.385464858	0.000266176	0.008342
MAN1A1	-2.344293766	0.000266748	0.008346774
ETS2	-1.251960277	0.000267751	0.008362827
PHYHD1	-1.336671765	0.000268101	0.008362827
AGBL5	-1.306476088	0.000268797	0.008371416
HCK	-1.172039338	0.000271207	0.008420106
CHADL	-1.196694434	0.000273896	0.008444193
NMB	-1.393503097	0.000274073	0.008444193
TRA2B	-1.511442968	0.000280419	0.008566821
DMRTC1	1.241620419	0.000280668	0.008566821
AC073283	-1.175976358	0.000281491	0.008578804
ANGPTL1	-3.141161773	0.000286368	0.008686764
TNFSF13	-1.050309475	0.00028678	0.008686764
ARF3	1.222071616	0.00029048	0.008758862
APOA1	1.011322044	0.000291748	0.008770519
RNF150	-1.307217664	0.000294365	0.008807481
PDP2	1.456859222	0.000295032	0.008807481
ACTR3C	1.105416152	0.000295447	0.008807481
CDK2AP2	-1.556768875	0.000295447	0.008807481
SYF2	-1.046428915	0.000296143	0.008807481
PDCD2	-1.110611778	0.000296352	0.008807481
CCL8	-2.115694761	0.000296606	0.008807481
POLE4	-1.660662379	0.000298901	0.008807481
FCGRT	-1.170623218	0.000299064	0.008807481
ISG20L2	-1.074279775	0.000299743	0.008807507
OR8H1	1.54348142	0.000300502	0.008807507
KRTDAP	1.088334778	0.000304118	0.008900359
TRIM69	1.303477163	0.000304814	0.008907631
CTSF	-1.551328556	0.00030617	0.008934136

PDLIM4	-1.203161838	0.000311304	0.009044182
IGFL2	1.950765606	0.000314008	0.009109435
SAPCD2	1.350066325	0.000318143	0.009215945
HDHD3	-1.206993261	0.000318829	0.009222409
C19orf73	1.0131499	0.000322015	0.009270006
SLC18A1	-1.65159592	0.000329082	0.009396058
ZNF736	1.248895678	0.000330137	0.009399084
ASIC1	1.427252732	0.00033028	0.009399084
GIPC2	-4.201767643	0.000330954	0.009399084
HMGCL	-1.015085263	0.000331077	0.009399084
EML4	-1.196166799	0.000334928	0.009454464
RSC1A1	-1.365336564	0.000335837	0.009457418
CFHR4	-2.392107902	0.000335983	0.009457418
ITGA11	-1.437492049	0.00033752	0.009487271
CELA1	-3.225649199	0.000338006	0.009487539
NOL9	-1.289859841	0.000339941	0.009515003
MAD2L1	1.914682339	0.000342127	0.009549325
TMEM165	-1.36917095	0.000344612	0.009591794
STC1	2.325557753	0.000345801	0.009598022
DNAJC12	-1.996822383	0.000351239	0.009708335
NR4A1	-1.274341849	0.000356819	0.009820903
GLUD1	-2.098100268	0.000357512	0.009820903
OLFML3	-1.913980997	0.000357779	0.009820903
CAMK1	-1.290997224	0.000359335	0.009850036
RPLP2	-1.098897869	0.000362301	0.009893327
TPD52L1	-2.181444475	0.000365405	0.009947918
AUH	-1.447974854	0.000365994	0.009950327
DEFB118	1.594894768	0.000375102	0.010167929
PTPRZ1	1.134159209	0.00037553	0.010167929
TIE1	1.557646797	0.000376919	0.01017783
NKAPD1	-1.123646949	0.000386526	0.01042311
ALOX5AP	-2.02823702	0.000387293	0.010429661
H2BFM	1.312208886	0.000390829	0.010510652
RARRES2	-4.031726957	0.000393649	0.010556087
LRRK1	1.106838143	0.00039464	0.010556087
TRMT112	-1.009263785	0.000395501	0.010564916
KRTAP3-1	1.504694041	0.000396112	0.010567049
ZBBX	1.417719232	0.00040055	0.010666614
SSTR2	-1.972543501	0.000400916	0.010666614
SLC27A6	-3.801205265	0.000403281	0.010703747
STAT3	-1.671367469	0.000407619	0.010787257

AK3	-1.76344932	0.000408933	0.010807666
NOB1	-1.103847113	0.000410061	0.010823106
DUSP1	-1.725660704	0.000416223	0.010913366
HPR	1.001039935	0.000418534	0.010959529
KIAA0895L	1.375309152	0.000422561	0.011035952
CPN1	1.532122089	0.00042343	0.01104108
PET117	-1.110452208	0.000423867	0.01104108
C5AR1	-1.498621406	0.000425049	0.011041315
FCGR2A	-1.076796611	0.000425082	0.011041315
CIART	1.480900315	0.000429932	0.011097378
TESC	-2.810469123	0.000430839	0.011105127
MGAT5B	1.116942797	0.000431769	0.011105127
CENPO	-1.354810269	0.000432901	0.011116342
LCP2	1.120580665	0.000439925	0.011251286
COL19A1	1.196670573	0.000439954	0.011251286
KCNS2	1.392833209	0.000449795	0.011432143
MYBL2	1.312898803	0.000453341	0.011507575
FNDC3B	-1.721168608	0.00045463	0.011511408
TST	-1.864973151	0.000454649	0.011511408
SEC14L1	-1.117385497	0.000462216	0.011589576
IER2	-1.87299257	0.000466706	0.011621515
B4GALT6	-1.765194006	0.000467346	0.011621515
C19orf57	1.56606618	0.000467609	0.011621515
SARM1	-1.971647335	0.000467757	0.011621515
THAP12	-1.061391701	0.00047035	0.011647385
CCDC12	-1.137187994	0.000472296	0.011659239
FBXL14	1.195890415	0.000472805	0.011659239
RSAD2	1.577975511	0.000473376	0.011659239
CLDN4	1.543526108	0.000476467	0.011691475
MSI2	-1.290783201	0.000476817	0.011691475
HSD17B2	2.331406384	0.000477075	0.011691475
SOCS3	-2.282613902	0.00047821	0.011691475
CAGE1	1.826415334	0.000485189	0.011818547
CENPH	1.777967477	0.00048758	0.011862264
PARPBP	1.05701394	0.000495652	0.011994353
RBFA	-1.591944673	0.00049641	0.011994353
ZNF217	1.891081635	0.00049697	0.011994353
CES1	-2.642893534	0.000498594	0.012008035
SLC19A1	-1.366619984	0.000499822	0.012008035
KIAA1217	-1.95384236	0.000500209	0.012008035
TAC1	-2.598949332	0.000502641	0.012037378

PGM1	-1.625940929	0.00050526	0.01205789
PRUNE2	1.20157292	0.000506193	0.01205789
TYW3	-1.126100544	0.000506438	0.01205789
NCAPG	2.326868242	0.000506527	0.01205789
HAVCR2	1.494131825	0.000507334	0.012062661
GIPR	1.63821681	0.000512295	0.012151599
NFIL3	-2.339024125	0.000514947	0.012199239
GPR182	-1.526641089	0.000515642	0.012199239
CLEC12B	1.123929342	0.000516756	0.012199239
RGS2	-1.888703692	0.000518367	0.012210725
SLC12A6	2.012148695	0.000518901	0.012210725
MCEE	-1.200192086	0.000521668	0.012235606
LRRC8B	-1.332469483	0.000521985	0.012235606
SCN11A	1.275117692	0.000524735	0.012263089
FGFR2	-1.4135018	0.000525006	0.012263089
MATN2	-1.659528094	0.000532993	0.012392659
MKI67	1.510095644	0.000534656	0.012401162
ZNF431	-2.306212317	0.00054636	0.012599601
ST3GAL4	-1.35789105	0.000547725	0.012601485
ZNHIT2	-1.065486352	0.000550138	0.012642346
CUL4B	1.060022057	0.000551202	0.012642346
SMR3B	1.833950364	0.000552043	0.012642346
MS4A4A	-1.668869468	0.000553686	0.012647626
FNDC5	-1.701912784	0.000560901	0.01276155
AQP9	1.323761609	0.000563019	0.01276155
MOB1B	1.094102831	0.000565914	0.012765471
TSPO	-1.272460561	0.000566303	0.012765471
NADK2	-1.091979853	0.000568488	0.012774829
KANK2	1.146985486	0.000569141	0.012774829
COL11A2	1.013851822	0.000570024	0.012774829
IGFL4	1.433418392	0.000573505	0.012838379
ATP1B3	-1.5267014	0.000578052	0.012921774
KDM2A	-1.361348088	0.000578529	0.012921774
MED11	-1.239237466	0.000580517	0.012951649
ACAD8	-1.14618754	0.000581699	0.012957239
CEACAM20	1.024342915	0.000584058	0.012961714
ZCCHC3	1.053915823	0.000584225	0.012961714
FBXO25	-1.133518998	0.00058831	0.013034775
PLAT	-1.364459986	0.000593458	0.013048805
TNFAIP8L2	-1.223114719	0.000595683	0.01305582
POLG2	-1.091701306	0.000599199	0.013107485

FBXO36	-1.21520526	0.000599357	0.013107485
CISD3	-1.112391869	0.000603345	0.013180201
VWA3B	1.284761715	0.000604596	0.013193063
NPTX2	2.427238639	0.000606228	0.013198612
LACTB2	-1.13958278	0.000612367	0.01330427
ATP5MG	-1.516163363	0.000613645	0.013317505
PHF20	1.050823782	0.000622825	0.013472644
SLC47A1	-1.710751916	0.000630902	0.013603015
CYBRD1	-2.063247874	0.000631621	0.013603768
MAP3K15	-1.072267284	0.000632337	0.013604476
CD19	1.046909547	0.000637533	0.013654961
NAA80	1.042703127	0.000638114	0.013654961
SPRR2E	4.275624697	0.000645661	0.013757287
CNIH1	1.091789361	0.000647736	0.013769142
SNTB1	-2.67472915	0.000650099	0.013778073
MPV17	-1.014216434	0.000657462	0.01389759
MYO7A	-1.423472251	0.000657833	0.01389759
BEST3	1.083903743	0.000662999	0.013903408
YIPF4	-1.070930665	0.00066602	0.013937389
ZNF786	1.911234794	0.000667318	0.013946952
IGSF23	1.334482629	0.000668225	0.013946952
IL18	-1.521352013	0.000668579	0.013946952
CDK1	3.133179202	0.000672327	0.01400663
ALAS1	-2.748782755	0.000673551	0.01400663
SELENBP1	-2.624154498	0.000677699	0.014044259
SELENOH	-1.161219032	0.000678108	0.014044259
CRKL	1.561080584	0.000678889	0.014044259
UBE2E3	1.074249446	0.000680053	0.014053714
C9orf40	1.20604813	0.00068275	0.014080214
PSTPIP1	1.214787586	0.000688598	0.01411307
KLHDC8A	-2.895099646	0.000689312	0.014113176
KDM1B	1.320945636	0.000691972	0.014147354
RGS8	-2.734423914	0.000697367	0.014176007
WSB1	-1.239541929	0.00069929	0.014200578
TCIM	-1.967692662	0.000701406	0.014214551
FTHL17	1.41991866	0.000711139	0.0143025
PBK	3.273062344	0.000711265	0.0143025
C11orf86	-1.336772343	0.000711496	0.0143025
INS-IGF2	1.219618733	0.000716285	0.014335638
C1orf21	-1.529762692	0.000716746	0.014335638
RET	-2.200587722	0.000722527	0.014390461

CASD1	-1.721127636	0.000723826	0.014390461
CDC42EP5	-1.116340629	0.000730253	0.014454605
NFX1	-1.058597653	0.00073059	0.014454605
FAM98B	1.319116198	0.00073141	0.014454605
CENPV	-1.256733208	0.000740195	0.014576813
RAD23B	1.212207617	0.000746023	0.01460454
RPRM	-3.769070744	0.000746335	0.01460454
DCAF8L1	1.039389604	0.00074952	0.014625126
FIGLA	2.003385106	0.000750455	0.014625126
DMAP1	-1.585237008	0.000750712	0.014625126
KNTC1	1.298772712	0.000751062	0.014625126
FOLH1	1.500331869	0.000758345	0.014730832
CLIC2	-1.191968771	0.000758891	0.014730832
LDB1	1.153705852	0.000759451	0.014730832
GOLGA6D	1.251071746	0.000767867	0.01487958
TPM2	-2.29591851	0.000769605	0.014884274
CYR61	-2.55026042	0.000771331	0.014888707
HMMR	1.061355207	0.000773926	0.014919143
APOC1	-2.390283588	0.000780546	0.0149794
UNC5C	-1.314089231	0.000787955	0.015077971
ZKSCAN2	1.11055889	0.000792816	0.015141051
TMC7	1.218736801	0.000793534	0.015141051
MAMLD1	1.208728774	0.000805188	0.015287569
FBLN7	1.07522107	0.000809475	0.015327648
ALDOB	1.163617508	0.000810479	0.015332084
MFAP2	1.127557382	0.000812516	0.015335801
OGN	-1.704574562	0.000812988	0.015335801
SLC2A8	-1.236223188	0.000817792	0.015411825
OIT3	1.415519495	0.000821425	0.015437958
FXYD4	1.029140122	0.000821506	0.015437958
PCLAF	2.58702034	0.000825207	0.015463696
FUBP1	-1.303109507	0.000833337	0.015567036
ERBB3	1.392619938	0.000834011	0.015567036
ASAP1	-1.20955836	0.00083445	0.015567036
IL33	-2.07288985	0.000834633	0.015567036
FGF12	-3.183750601	0.000835923	0.01557651
PLA2G7	1.042639841	0.000836919	0.015580465
OGDHL	1.178834459	0.000847679	0.015678118
CUL5	-1.22696007	0.000851653	0.015701562
EPHX2	-1.452741768	0.000859241	0.015789241
MTG1	-1.190238434	0.000865234	0.015879879

VEGFB	1.5273662	0.00086686	0.015879879
ECHDC2	-1.830509543	0.00086705	0.015879879
ETFDH	-1.759225922	0.000878426	0.016023431
FAM177B	-1.173685893	0.000895616	0.016218075
TMEM14B	-1.27835739	0.000900698	0.016270393
ARMC9	-1.426085698	0.000900958	0.016270393
NLE1	-1.048627412	0.000907198	0.016353392
FNDC4	-1.421568948	0.00091924	0.016541704
MT-ND5	1.271976196	0.000920451	0.016547338
PLA2G2C	1.299128571	0.000922509	0.016569358
ARL11	-1.820016202	0.000924417	0.016588656
RERG	-2.020764313	0.000936149	0.016713631
CYP4F12	-2.118967007	0.00094943	0.016827501
SUCLA2	-1.063571812	0.000949565	0.016827501
LRRC38	-1.653590775	0.000953063	0.016863908
SPTBN1	-1.017951135	0.000954357	0.016867369
MZT2A	-1.551999865	0.000962612	0.016983106
B4GAT1	-1.304420833	0.000970745	0.017074119
ARID1B	-1.399776333	0.000972976	0.017074119
SNPH	1.172107591	0.00097338	0.017074119
IGF2	3.589675891	0.000973776	0.017074119
PLBD1	-1.501237299	0.000988683	0.017235095
CPT2	-1.246267521	0.00099081	0.017251192
LDLR	2.047604177	0.000995144	0.017311512
CXCL12	-1.823595465	0.000996999	0.017324281
DHX16	1.362455034	0.000998988	0.017324281
CDKN1C	-2.430165216	0.00099899	0.017324281
TOP3A	1.205860565	0.000999361	0.017324281
CNN1	-2.069136239	0.001005762	0.017404929
OLFML2A	1.072254549	0.001007387	0.017405286
CFHR3	-1.310408985	0.001009013	0.017415752
ULK2	-1.091930498	0.001018093	0.017511731
ARHGAP12	1.585097849	0.00102379	0.017592348
GALM	-1.54727409	0.001024548	0.017592348
SCNN1B	1.111126225	0.001028201	0.017597314
CCDC27	1.152750276	0.001028374	0.017597314
EIF4A3	-1.255141479	0.001031993	0.017636791
VAMP5	-1.870179782	0.001035241	0.017656615
B3GNT9	1.769632488	0.001036274	0.017656615
PCDHGB4	1.018207316	0.001036646	0.017656615
MYL3	-1.081425831	0.001037163	0.017656615

PKD2	-1.35212944	0.001043419	0.017717651
CYP3A43	1.402704261	0.001047023	0.017763694
ZNF587	-1.33771271	0.001050338	0.017774951
CARHSP1	1.073587358	0.001050366	0.017774951
CRISPLD2	-1.200906274	0.001052933	0.017803251
TCEAL7	-2.269505244	0.001058074	0.017873739
GNG12	-1.134074957	0.001062584	0.017905571
PRKD1	1.118735594	0.001065806	0.017944668
NLK	-1.035502656	0.001067915	0.01796498
SPATA21	1.20933748	0.001069709	0.017979967
KCNK17	1.202830688	0.00107153	0.017995381
TEX15	1.100876583	0.001073329	0.018010392
DYNLT1	-1.265065663	0.001081465	0.018101122
KIF18A	2.696330648	0.001085751	0.018127128
SLC35D1	1.398020094	0.001092835	0.018214835
COL4A3	-2.43083797	0.001094384	0.018223039
SPRR2A	3.765530926	0.001099996	0.018262976
CLEC4E	-2.301343988	0.001104023	0.018262976
GRIK1	-3.098681228	0.0011049	0.018262976
AC012531	1.507746514	0.001112856	0.018348757
CCDC85B	-1.458649765	0.001119004	0.018399717
C19orf66	1.095140696	0.001121595	0.018412779
AKR1A1	-1.051484981	0.001126758	0.018440465
C19orf48	1.820374527	0.001131324	0.018483162
USP19	1.385258781	0.001133082	0.018483162
SLC4A3	1.118589632	0.00114936	0.018687426
PACSIN2	-1.563621103	0.001153036	0.018731895
PRLHR	1.183863832	0.001160543	0.018823124
HSPBAP1	-1.011866826	0.001162214	0.018827817
MMP28	-1.745910993	0.001162725	0.018827817
GUCY1A2	-1.497517457	0.001164649	0.018828683
MRPL46	-1.134572893	0.001165139	0.018828683
STOX1	-1.752477511	0.001167254	0.018828683
STRADB	-1.651447993	0.001167509	0.018828683
VENTX	1.137240924	0.00117065	0.018846425
ACTA2	-1.642922574	0.00117989	0.018947872
UBE4A	-1.008539983	0.001188539	0.018995966
DNAJC2	1.21476518	0.001193395	0.019030259
RWDD3	-1.042861454	0.00120182	0.019103377
NAV2	-1.294293775	0.001205757	0.019150652
TBC1D8B	-1.388939541	0.001208089	0.019172397

SYTL1	1.055890016	0.001211015	0.019203516
BMP3	1.388817989	0.001215609	0.019261013
MSR1	-1.173873513	0.001229225	0.019445796
PTTG1	2.885203821	0.001232583	0.019483427
UCP1	1.659121077	0.001233912	0.019488955
DNAJC4	-1.02133496	0.00123786	0.019535813
MCCC1	-1.666151585	0.001245353	0.019622994
C1orf123	-1.017169619	0.001245357	0.019622994
WIPF3	1.592886771	0.001246731	0.019629109
GRM2	1.307277241	0.001255472	0.019704383
ETS1	1.010465494	0.001264398	0.019797621
SSPN	-1.141796691	0.001274512	0.019862224
KIF24	1.385282968	0.001280109	0.019904088
GCLM	-1.40691553	0.00128912	0.019987083
MAPK1	-1.356425269	0.001309886	0.020223468
PTTG2	2.787045524	0.00131169	0.020235621
TYMS	2.281538784	0.001319015	0.020332855
CSNK1E	-1.4877486	0.001323823	0.020391183
POU2F2	1.336261041	0.001326959	0.020422344
PID1	-2.427364499	0.001327899	0.020422344
TFRC	-1.432898924	0.001333747	0.020480637
TM7SF3	-1.05203764	0.0013361	0.020500952
SNAPIN	-1.054307115	0.001350822	0.020631392
CPNE4	1.711447957	0.001360154	0.020710345
MCF2	-2.127245572	0.001365224	0.02073984
MAGEC3	1.18773666	0.001366385	0.02073984
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UPK2	1.107882081	0.001369978	0.020748804
CLEC2L	1.012649074	0.001384777	0.020909292
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NRCAM	-1.347826843	0.001392425	0.020962249
CCNE1	1.821034725	0.001393551	0.020962249
HIBCH	-1.537894442	0.001395057	0.02096905
MS4A7	-1.291260065	0.001407646	0.021094553
CPT1A	-1.382287543	0.00141251	0.021135611
SH3PXD2A	1.287073773	0.001425349	0.021261071
RAB34	-2.092153686	0.00142575	0.021261071
ALPP	1.628686845	0.001436072	0.021328454
ETFA	-1.247961436	0.001437098	0.021328454
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NDUFS8	-1.082482233	0.001443155	0.021385131

BUB1	2.872420439	0.001447653	0.021435815
S1PR1	-1.136120153	0.001455943	0.02148215
KCNC3	1.473991408	0.001456378	0.02148215
PLN	-1.687853752	0.001458014	0.02148215
SFPQ	-1.237888375	0.00145842	0.02148215
SPOP	-1.136109463	0.001459417	0.02148215
SEC23IP	1.419703406	0.001462357	0.021493624
HPCAL4	-1.290194522	0.001465733	0.021511476
GINS2	1.352282425	0.001477253	0.021632674
FMO3	-1.777439678	0.001480469	0.021663833
TSPAN10	1.132855761	0.001489773	0.021720125
FPR3	-1.017265454	0.001508224	0.021892905
TGFB2	1.009314556	0.001509532	0.021895922
BRD3	-1.107647899	0.001538883	0.022060998
NDRG1	-1.888316754	0.001542473	0.022060998
TBXT	1.054142622	0.001542764	0.022060998
UCLH3	-1.350025564	0.001543389	0.022060998
AL662820	1.690393319	0.001544077	0.022060998
ANK2	-1.053984461	0.001545268	0.022060998
CCNB1	2.115227777	0.001546131	0.022060998
ZNF335	-1.760258226	0.001547351	0.022060998
SLC25A19	-1.508771661	0.001561712	0.022183892
PHF5A	-1.234933429	0.001564471	0.022193957
RPS27A	-1.097104858	0.001564651	0.022193957
CCL21	-1.422728238	0.00157461	0.022303422
SOX9	1.121178016	0.001582145	0.022363849
CCL26	-1.843110935	0.001582492	0.022363849
TNFRSF14	-1.893144326	0.001583371	0.022363849
ERMP1	-1.692292849	0.001585845	0.022367045
NPFF	1.232483077	0.001589789	0.022406789
MOCS3	1.036268256	0.001598523	0.02249802
TLCD2	-1.586965741	0.001606294	0.022575467
MLNR	1.08890445	0.001611669	0.022635016
TGDS	-1.070733606	0.001620776	0.022703109
PHACTR2	-1.109524913	0.001622576	0.022703109
CYBA	-1.017768604	0.001622927	0.022703109
AC012476	2.224383539	0.001623983	0.022703109
KRT18	1.110126002	0.00163326	0.022789229
MYZAP	-2.235204909	0.001640756	0.022834044
ASCL1	-2.274867336	0.001652166	0.022944703
SYCE1	-1.281602427	0.001656498	0.022961225

TOB1	-2.565559145	0.001657971	0.022961225
HNRNPL	1.06016539	0.001659543	0.022967017
IL2RG	1.406752478	0.001667101	0.023039568
TMEM50A	-1.191992898	0.001675416	0.023086818
TULP4	-1.245223017	0.001675877	0.023086818
AL807752	-1.257245565	0.001681688	0.023128732
KLB	1.863610054	0.001693705	0.023229785
MYRIP	1.180155081	0.001700629	0.023289319
C12orf75	1.550008821	0.001701448	0.023289319
C8orf48	2.079124297	0.001701556	0.023289319
AUP1	1.320938517	0.001708759	0.023322692
KIF2A	1.005804997	0.001712267	0.023322692
LILRA6	-1.855279159	0.001715432	0.023322692
IFIT5	-1.948936105	0.001725081	0.023434019
SUCLG2	-1.304930247	0.001727838	0.023455456
DNASE1L3	-3.456616176	0.001739856	0.023586424
PM20D1	1.00622579	0.001751645	0.023713943
PCDHA7	2.506721469	0.001755369	0.023720562
TMEM266	1.045625833	0.001763156	0.023804999
HGF	-1.381967655	0.001772019	0.023876064
PHF11	-1.371663523	0.001794299	0.024044824
HOXB5	-1.84664626	0.001794666	0.024044824
GPR21	1.051486383	0.001796209	0.024044824
AL133353	-1.373605695	0.001798701	0.024044824
PROX1	-1.682394973	0.001807004	0.024099392
FBXO6	-1.290675498	0.00181595	0.024140803
CCS	-1.204541125	0.001815994	0.024140803
UBE2T	1.657764661	0.001821642	0.024163293
CDKN3	2.877972403	0.001822476	0.024163293
MAPK13	-2.178101065	0.00182592	0.024176733
TREML4	1.202785385	0.001834914	0.024247428
MAPK10	-1.553299256	0.001836435	0.024251417
SETBP1	-1.500761387	0.001848428	0.024393612
HBEGF	-1.112532556	0.001858923	0.024491563
GAREM1	-1.264493377	0.001859542	0.024491563
CCL15	-1.317710694	0.001861084	0.024495659
ZC3H4	-1.423052879	0.001863223	0.0245076
ABHD4	1.16944422	0.001875024	0.024589753
KLK15	1.157645748	0.001879435	0.024589753
FGL2	-1.402906502	0.001883884	0.024589753
KCNMB4	-3.039425567	0.001884171	0.024589753

TBC1D4	-1.67885672	0.001885424	0.024589753
IL11	1.559266083	0.001886421	0.024589753
IDO1	3.078113714	0.001890955	0.024609012
FAM177A1	-1.346258389	0.001893191	0.024609012
SIX1	1.14270343	0.001901853	0.024658785
EFEMP2	-1.536581685	0.00190516	0.024662923
WRB-SH3BGR	-1.09678326	0.001906078	0.024662923
PDZD4	1.0044023	0.001906276	0.024662923
USP13	-1.765695254	0.001907253	0.024662923
TRIM21	-1.12980663	0.001914622	0.024726076
TOMM22	-1.535328429	0.001918486	0.024754367
TTK	1.457076019	0.001923391	0.024775017
UAP1	-1.011272155	0.001925372	0.024784488
TMEM26	1.596200185	0.00192881	0.024812706
FDX1	-1.991286386	0.001936055	0.024873741
NFKBIA	-1.233522392	0.001940231	0.024911314
HSPB8	3.224577085	0.001951825	0.025011764
PARVA	-1.444565025	0.001953369	0.025015443
CLEC3B	-1.540207944	0.001956651	0.025041358
CP	-3.094226085	0.001974325	0.025170434
AKR1B1	-1.754745481	0.001982004	0.025252153
PALMD	-2.063739834	0.001986552	0.025266884
CHST7	1.044144045	0.001991234	0.025304949
TMEM59	-1.400230731	0.001995093	0.025320602
KRTAP4-4	1.374150318	0.002000249	0.025338612
C1S	-1.77863854	0.002003751	0.025362088
ANKDD1A	-1.376259149	0.00200669	0.025362088
DNER	-2.272917915	0.002008708	0.025362088
AKAP10	-1.640473841	0.002011406	0.02536692
CTGF	-2.107306523	0.002048386	0.025686788
NIPSNAP3A	-1.015783559	0.002061881	0.025747466
TFB2M	-1.213043533	0.00206286	0.025747466
NID2	1.098094109	0.00207577	0.025818681
PRPF8	-1.139522249	0.002077979	0.025830022
TMEM14A	-1.192942869	0.002084192	0.025891071
SERPINB1	-1.127541839	0.002086748	0.025906656
PHF10	-1.938314689	0.002090812	0.025924768
AAMDC	-1.417690106	0.00209752	0.025971863
TMEM126B	-1.23812526	0.002101072	0.025987216
CAMKK2	-1.417748956	0.002108055	0.026025069
GAS1	-1.375719438	0.002125469	0.026175098

VMP1	-1.048192099	0.002150902	0.026367154
TRIM16	-1.39187896	0.002160165	0.026446305
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BBS2	-1.058950583	0.002179777	0.026522301
ROCK1	-1.061503823	0.002181058	0.026522301
PDE6G	1.391249055	0.002185626	0.026522301
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AHCYL1	-1.546187615	0.002188313	0.026522301
CD9	-1.866651344	0.00220846	0.026661872
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GBP2	-2.65530014	0.002228127	0.026760389
KIAA1958	-1.101504734	0.002231913	0.026789689
TEK	-1.599466176	0.00223541	0.026802211
GPR32	1.143843114	0.00223768	0.026810397
USP8	1.528466881	0.002245758	0.026867561
NLRX1	-1.259338472	0.002250401	0.026881895
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TPRN	1.251265931	0.002306689	0.027194758
FOXP3	1.039280008	0.002312902	0.027236136
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EIF3L	-1.245727798	0.002321827	0.027276667
PEX3	-1.405655473	0.002334922	0.02739816
MED27	1.402419245	0.002353478	0.027481156
ADAMTSL1	-1.943829003	0.002355804	0.027481156
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SERPINF1	-2.678211969	0.002382644	0.027646216
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GMPPB	-1.050593706	0.002387385	0.027655031
CTBP1	1.38313802	0.002406275	0.027792962
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ARMCX4	-1.139107615	0.002420294	0.027890511
TMOD1	-2.120903668	0.002420657	0.027890511
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NANS	1.170216697	0.002437502	0.027975045
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FOXJ3	-1.169975834	0.002562921	0.028897846
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AKAP12	-1.567924495	0.002602425	0.029177949
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GSTA4	-2.558670175	0.002667108	0.029493486
TTC19	-1.3869567	0.002668292	0.029493486
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COA7	-1.090956023	0.002698337	0.029681643
TRAPPC2L	-1.012822692	0.002706382	0.029709712
C16orf70	1.01556924	0.002707999	0.029709712
AURKA	1.516524455	0.002710408	0.029709712
GPR4	1.45588306	0.002711062	0.029709712
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PRC1	2.309831339	0.002721686	0.029776956
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GAL3ST4	1.158048631	0.0027691	0.030064299
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TRMT10B	-1.235918757	0.002797153	0.030286263
FSTL1	-1.247117285	0.002800099	0.030301666
SORBS1	-1.049111331	0.002811188	0.03037517
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MARCO	-1.05594136	0.003073944	0.03186175
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RNASEH2A	1.487247352	0.003159501	0.032327627
HGFAC	1.213513703	0.003178992	0.032476961
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DLGAP5	2.15527256	0.003198059	0.0326048
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SELENOT	-1.374945299	0.00340104	0.033977088
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POLR1E	-1.096356818	0.003417225	0.033986105
C7orf31	-1.028641507	0.003444503	0.03415498
IDNK	-1.117482669	0.003449422	0.034186722
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KRTAP2-3	1.397255988	0.003492044	0.034386526
GIMAP7	-1.282214723	0.003501424	0.034423794
CLDN7	-1.243637482	0.003505393	0.034423794
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C7orf61	1.23788914	0.003513204	0.034441518
CUL4A	-1.176134305	0.003550469	0.034687232
SRRM3	1.434604795	0.003567532	0.03479962
CDH7	1.128811938	0.003597735	0.034977292
TBX4	1.258999919	0.003601888	0.034983492
TMEM17	-1.002379566	0.003629051	0.035148661
EDNRB	-1.934781429	0.003631695	0.035148661
JMJD4	-1.047967788	0.00363239	0.035148661

SCPEP1	-1.643743417	0.003643112	0.03519494
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YARS	-1.16760832	0.003774502	0.036092623
ADGRL2	-2.047561033	0.003831504	0.036431324
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PHTF2	1.090046919	0.003848064	0.036477205
CEBPD	-1.150298542	0.003850914	0.036477205
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PLPP3	-1.716763896	0.004101898	0.037699502
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FAM49A	-1.858971804	0.004131558	0.037826886
IGSF8	1.043991748	0.004132237	0.037826886
NDC80	2.499557424	0.004140109	0.037846723
STX5	-1.114933523	0.004145713	0.037863167
C6orf48	-1.078513072	0.004152498	0.037890354
TAS2R40	1.292290721	0.00416244	0.037946276
C11orf87	1.098707131	0.00416652	0.037966082
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MICALL1	1.016534415	0.004206097	0.038216152
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PCGF3	-1.090242192	0.004238779	0.03837619
CCL19	-1.579890006	0.004240452	0.03837619
DPY19L2	1.317244616	0.004244075	0.03839152
OSR2	-1.020179108	0.004247426	0.038404372
SAT2	-1.153068228	0.004251666	0.038425249
FAM135A	1.165734944	0.00430437	0.038743221
HNRNPLL	-1.217158278	0.004350428	0.038992516
MUC7	1.145543213	0.004374578	0.039117233
ADORA3	-1.147682789	0.004379337	0.039117233
GFY	1.288876111	0.004413502	0.039320206
TPMT	-1.137289946	0.004438113	0.039429865
SMPDL3A	-1.878176668	0.004448264	0.039484793
SGO1	1.155624144	0.004486331	0.039706201
PRR15	1.348472651	0.004492533	0.039735952
BSDC1	-1.207595682	0.004507136	0.039812032
SYBU	-1.272301497	0.004546955	0.040057081
IL32	2.254914509	0.004557015	0.040113106
ENAM	1.040847132	0.004593178	0.040357101
TOP2A	2.384615535	0.004597279	0.040366172
GOLGA6L22	1.069063315	0.004598267	0.040366172
EHHADH	1.380398864	0.004607969	0.040397877
IQCF5	1.180375564	0.004626007	0.040466883
INTS3	-1.234577359	0.004630756	0.040490628
FEZ2	-1.442966064	0.004667274	0.040702634
SH3BGR	-1.164792988	0.004669576	0.04070488
UBAP2	-1.354013766	0.004676428	0.040725285
KIAA0930	-2.293756685	0.004678325	0.040725285
AVPI1	-1.570550265	0.004682709	0.040730155
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CEPT1	-1.058618802	0.00470695	0.040869548
CDADC1	-1.193872109	0.004741309	0.04106196
GM2A	1.201832718	0.00474149	0.04106196
SRSF5	-1.039195616	0.004754557	0.041103579
HIST4H4	1.963119308	0.004774076	0.041200555
TIMP3	-1.185059099	0.004784605	0.041219453
ODF2L	-1.422153805	0.004784749	0.041219453
ZNF260	1.016264167	0.004800948	0.041300022
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SPAG1	1.108232182	0.004876374	0.041757628

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STARD13	-1.275825609	0.004947751	0.042101251
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COX7A2L	-1.285458795	0.004994374	0.042258945
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SOAT1	-1.838926634	0.005009758	0.042315938
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RAB35	1.157307372	0.005024263	0.0423275
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CGREF1	1.181708084	0.00504677	0.04241057
DNAJB2	-1.126158329	0.005048522	0.04241057
GP1BA	1.084503945	0.00511325	0.042809758
PARP6	1.166827759	0.005133509	0.042925191
CD36	2.051058933	0.005147643	0.042962604
MYLIP	-1.804419322	0.005188933	0.043174683
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EMILIN1	-1.204280525	0.005220894	0.043343063
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GUCY1A1	-1.478906245	0.005274057	0.043587628
RAD51AP1	1.021575074	0.005304492	0.043748316
MLLT3	-1.169614327	0.005320083	0.043840568
DPY30	-1.001055873	0.005374482	0.044179082
XRCC6	-1.463768846	0.005387212	0.044245435
OXCT2	-1.728476425	0.005396286	0.044266893
PSMD4	-1.226039933	0.005409125	0.044335666
S1PR4	-1.256543765	0.005417924	0.044380876
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SPRR2F	2.273447407	0.005423526	0.044380876
ETAA1	-1.437261154	0.005433004	0.044399553
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CALD1	-1.332638213	0.005434768	0.044399553
FDXACB1	-1.161786677	0.005437088	0.044400285
INTS4	-1.172362917	0.005510998	0.044710304
FTH1	-1.046099162	0.005514135	0.044717523
EIF5AL1	1.153935773	0.005549222	0.044928829
TSTD1	-1.913710943	0.005551651	0.044930219
PPARA	-1.011932123	0.005563478	0.044989343

TRIM34	-1.20287076	0.00557145	0.04499973
PDGFD	-2.371236946	0.00557781	0.045020278
RHOB	-1.250832131	0.005578614	0.045020278
LRRD1	1.216218856	0.005584138	0.045046589
FAM120C	-1.151368968	0.005606707	0.045182036
ULBP2	2.129603272	0.005646432	0.045401874
SLC10A7	-1.038913676	0.005682137	0.045596862
ARHGAP10	-1.1612914	0.005697286	0.045651355
ADRB1	-1.491008785	0.005698104	0.045651355
GADD45GIP1	-1.2615132	0.005709841	0.045695024
SMARCC2	1.063489205	0.005726758	0.045770365
MDM4	-1.151739428	0.005730531	0.045782136
RPIA	-1.336623069	0.005747595	0.04588162
ALCAM	-1.376730745	0.00576678	0.045961027
NOL7	-1.104324432	0.005782526	0.046048393
GRTP1	-1.048481806	0.00578604	0.046048393
FOXL2	-4.013647465	0.005787099	0.046048393
GLS	-1.34571912	0.005802985	0.04605718
HMBS	-1.040740955	0.005805439	0.04605718
RRAS	-1.374894898	0.00581495	0.046086549
DEAF1	-1.131515126	0.005831148	0.046178142
RASAL1	1.556014023	0.005841316	0.046221881
TMPRSS9	1.156478885	0.005844616	0.04622961
PCCB	-1.303231057	0.005854236	0.046268924
RAB17	1.967813649	0.005873214	0.046342878
DPT	-2.941135666	0.005879894	0.046342878
XBP1	-1.602928835	0.005891815	0.046408114
PLAC8L1	1.198529927	0.005900489	0.046408114
WNT11	-1.905223997	0.005901495	0.046408114
MICAL2	1.016751338	0.005904962	0.046411787
LMBRD1	-1.35827339	0.005921459	0.046449729
TENT5A	-1.273302228	0.005924584	0.046454399
SYT16	-1.977172467	0.005933692	0.046472411
SIRPA	1.444382151	0.005946469	0.046525016
KCNJ12	1.160848543	0.005947422	0.046525016
SCP2	-1.035713525	0.00596369	0.046633946
LPCAT3	-1.176174615	0.006024245	0.046959853
PLPBP	-1.052029752	0.006047338	0.047121407
PLA2G2D	1.084769857	0.006052447	0.047142759
OR4D6	1.037162576	0.006070982	0.04721321
AMPD3	-1.031292825	0.006093184	0.047300079

GSTM1	-1.719613729	0.006114992	0.047442911
WDR91	1.038979994	0.006120987	0.047449582
C1orf109	-1.218338355	0.006131253	0.04745938
HP	-2.25414843	0.00614157	0.047475944
RSRP1	-1.176002917	0.006142935	0.047475944
DMGDH	-2.247294056	0.006161028	0.047578821
TPSAB1	1.200016445	0.006171857	0.047594064
RIMKLA	1.798240119	0.006185786	0.04760376
TTL6	1.078390694	0.006194703	0.047627681
SQOR	-1.34778706	0.006197196	0.047627681
SHC3	-2.842140557	0.006207705	0.047627681
CHAF1B	1.4404457	0.00620804	0.047627681
FNIP1	1.165821774	0.006219132	0.047635883
KCTD3	-1.209390251	0.006222471	0.047635883
ASF1B	1.010864486	0.0062377	0.04768977
RPL13	-1.085204713	0.006243116	0.047705458
ETFBKMT	-1.002234323	0.006253676	0.047756868
SLC22A13	1.798385929	0.006271171	0.047871665
EIF4A2	-1.193457091	0.006306747	0.048033128
RGS10	-1.124977873	0.006330404	0.04810285
SELENOF	-1.001496391	0.006349309	0.048172928
GEM	-1.530571195	0.00636806	0.04824163
BRICD5	1.303330125	0.006388673	0.048324204
SRSF7	-1.01980826	0.006404141	0.048404411
FRRS1L	-2.53311355	0.006414165	0.04846177
FRS3	1.362362165	0.00643651	0.048571825
MYH15	1.657243597	0.00644236	0.048571825
PDE8B	1.469386068	0.006443376	0.048571825
SH3BP5	-1.410281795	0.006462182	0.048603127
SLIT3	-1.617884981	0.006487054	0.048716552
USP48	-1.308355482	0.006549146	0.049108725
NRXN2	1.167096998	0.006581218	0.049208512
ORAI1	1.022286868	0.006586474	0.049208512
GIMAP5	-1.542998771	0.006593619	0.049221512
DEFB128	1.731534535	0.006610901	0.049324901
PABPN1	-1.065056411	0.006612675	0.049324901
PAQR7	-1.294966666	0.006625866	0.049404778
NKAPL	1.042248835	0.006644663	0.049526381
ZNF358	1.239799354	0.006653035	0.049551665
CLYBL	-1.337950007	0.006684243	0.049654019
APOE	-1.472085106	0.006727077	0.049798661

SLC25A2	1.760683911	0.006730561	0.049798661
PQLC3	-1.19068619	0.006733398	0.049798661
HYI	-1.349798587	0.006733623	0.049798661