

SUPPLEMENTARY MATERIAL

at 0 m 70 DEGs specific for Part group			at 0 m 41 DEGs shared between Part and Full groups			at 0 m 909 DEGs specific for Full group		
0 m part specific	adj.P.Val	logFC	0 m shared	adj.P.Val	logFC	0 m full specific	adj.P.Val	logFC
TNNI2	2.74E-10	-0.405397693	FAM26F	3.41E-08	1.032993078	TACSTD2	1.32E-16	0.506898306
COG6	3.70E-09	0.361229778	GBP4	1.38E-07	0.495688466	LENG8-AS1	1.20E-14	-0.33546101
ZBTB20	1.24E-07	0.377197632	SCARF1	3.29E-07	0.498299895	Inc-ASMT-5	1.01E-12	-0.726634024
ANKRD10-IT1	6.60E-07	0.379971332	DNASE1L3	8.99E-06	0.688519976	PLK3	1.47E-11	-0.449487105
Inc-AF131215.3.1-1	1.32E-06	0.361387938	ZNF204P	8.99E-06	-0.525770606	USP35	1.48E-11	-0.63646801
LAPTM4B	1.32E-06	0.363028537	WARS	1.97E-05	0.614764138	Inc-FAM55B-1	1.79E-11	0.625091011
LOC101928979	1.99E-06	0.524313137	IGJ	0.000101616	0.739291108	Inc-GDF5-1	5.03E-11	-0.34663097
ZNF169	2.12E-06	0.438012589	UBD	0.00031781	0.535546606	LINC00642	6.17E-11	-0.408389706
HCAR2	3.18E-06	-0.36145047	IL4I1	0.000353273	0.841238403	RAD51	1.70E-10	-0.375123132
RNF141	5.38E-06	0.455407956	KCNJ2	0.000459215	0.556983775	MAGED4B	1.78E-10	-0.331417189
CAMK2N1	9.42E-06	0.375103977	P2RX7	0.000511319	0.72671937	RAD54B	3.08E-10	-0.409905277
TMEM55A	1.00E-05	0.336009403	TPM2	0.000652507	-0.456786029	DMRTC1	3.10E-10	-0.33892921
RUNX1-IT1	1.06E-05	0.370431912	SNX10	0.000886574	0.332449652	RAB5C	4.02E-10	0.454783582
P3H2	1.91E-05	-0.335817812	SLAMF8	0.001352072	0.425044903	PI4KAP2	9.76E-10	-0.395141112
NLRP2	2.17E-05	-0.558911903	HLA-DQA2	0.001577158	0.455527693	WDR41	1.19E-09	0.429593733
MSN	2.18E-05	0.436719146	Inc-CD300C-1	0.001717732	0.429087501	IQCK	1.27E-09	-0.330053821
IGLL1	3.43E-05	0.337693487	CTSLP2	0.002191251	0.40069283	P2RY14	3.79E-09	0.652513537
C22orf34	4.03E-05	0.483665034	HAS1	0.003520599	0.385292856	DNPH1	4.61E-09	-0.385401941
SNAR-F	5.74E-05	0.66270582	NPTX1	0.003818986	0.344284377	KRBA1	4.61E-09	-0.351414796
SLC30A1	6.97E-05	-0.339949617	IRG1	0.003899634	0.423992164	DPH7	6.69E-09	-0.358397781
Inc-TAF9-2	0.000139443	0.385355706	ZC3H12C	0.004675162	0.483908028	SEMA4D	6.79E-09	-0.383525457
TMEM45B	0.000280166	0.548983216	MS4A1	0.00533804	0.412803656	SUN1	8.37E-09	-0.369756594
LDOC1	0.00029944	0.361802075	SNAR-D	0.005732939	0.515496849	ZNF512B	9.51E-09	-0.480675856
DAPP1	0.000371491	0.37277074	HSPA1B	0.006180143	-0.662371959	P4HTM	1.10E-08	-0.391566435
Inc-C13orf15-1	0.00041525	0.434015574	XLOC_I2_010908	0.006478378	0.434995894	ZAP70	1.13E-08	-0.519281317
SNORA55	0.00063937	-0.334068506	ZNF683	0.006621944	0.674746283	C21orf2	1.30E-08	-0.392328466
CMKLR1	0.000641313	-0.38881448	ICAM1	0.006808105	0.558579034	EXOC5	1.33E-08	0.41515671
Inc-TC2N-1	0.000725721	0.330564498	LOC644090	0.00720984	0.470731963	SETBP1	1.96E-08	0.41889527
KLK1	0.000740741	-0.410527069	PIR	0.007458218	0.389178577	SYNM	2.05E-08	0.795853418
IFITM4P	0.000750822	-0.38025421	MMP9	0.009307742	0.580320496	TSHZ3	2.11E-08	0.471743255
LOC100128242	0.000834904	0.385110665	LOC643802	0.009380192	-0.424924621	NOXA1	2.31E-08	-0.40450839
HLA-DQB2	0.001336404	0.698363976	LOC100130587	0.009559848	-0.335775982	CADM1	2.46E-08	0.496611179
FCER1A	0.001413795	0.349381901	MYCL	0.009661853	0.389363866	Inc-WDR77-1	2.78E-08	-0.354410053
ENKUR	0.001583607	0.464869575	ITGB8	0.011370856	0.527607499	SLC31A1	3.68E-08	0.341910117
NAIP	0.001692739	0.341461207	PROCR	0.016572545	0.456096039	PLEKHG4	4.99E-08	-0.44566881
SNAR-G2	0.002520826	0.473632766	CCL4L2	0.016616145	0.449719673	HOPX	5.69E-08	0.35856491
LOC101929382	0.002600959	0.336614114	CXCL10	0.02387303	0.437921319	KAT2A	5.81E-08	-0.582998644
GDF15	0.002689977	-0.385054398	SPP1	0.023906693	0.505936722	RELL2	6.12E-08	-0.502479799
CBLN3	0.002712497	-0.352076779	IGLL5	0.024419399	0.435507352	GCA	1.03E-07	0.397485133
Inc-AP002478.1-2	0.003574194	0.347586065	CCL3L3	0.034617905	0.427734417	SORT1	1.06E-07	0.380681738
RASSF4	0.00366003	-0.378294131	LOC101928669	0.034649376	-0.371471965	TMEM158	1.29E-07	0.923541487
TSC22D1	0.003681446	0.376856295				HDAC10	1.29E-07	-0.368330909
Inc-C14orf166-1	0.003700633	-0.430978954				XLOC_I2_009571	1.38E-07	-0.373998859
SNAR-H	0.003851067	0.496998225				SLC9A9	1.40E-07	0.36086584
C17orf97	0.003908404	0.34840383				VIPR1	1.43E-07	-0.484993711
Inc-FAM72C-2	0.004237983	-0.538649379				LOC340335	1.53E-07	-0.436462783
XLOC_I2_010064	0.004303366	0.346207591				OciAD2	1.55E-07	-0.40707884
HLA-DQB1	0.004940764	0.556239458				XLOC_I2_009464	1.60E-07	-0.563780576
LPL	0.006116823	-0.45199054				CTDSPL	1.66E-07	0.377588148
SLC1A3	0.008212043	-0.431725263				MEF2B	1.69E-07	-0.365546883
GGTA1P	0.009203947	0.542786322				Inc-OR4M2-7	1.77E-07	0.375072389
LPPR4	0.009372721	-0.361147062				ASL	1.80E-07	0.346687192
MITF	0.010311274	-0.43083387				MTA1	2.14E-07	-0.357591692
MLH3	0.010343523	0.33238642				ITGAM	2.37E-07	0.919844454
LY6K	0.010952846	0.615829478				FPR2	2.42E-07	0.672646239

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DNAJB4	0.011004479	-0.359570248
SNORA81	0.011394437	-0.390416103
MYOM2	0.013160828	-0.372750032
TNF	0.014622204	-0.378799107
JAKMIP2	0.016239378	-0.433218468
STAT6	0.021054023	0.39138568
INHBA	0.021682077	-0.53148652
HBB	0.027064793	0.432468896
GJB2	0.02861239	-0.450382513
CHRM4	0.038892083	0.476973023
IL1A	0.040682109	-0.581776724
RAPH1	0.043517226	-0.395430451
ANXA3	0.044125475	0.393985513
DFNA5	0.046382121	-0.343104549
ODF3L2	0.04943252	-0.420173269

PCYT1A	2.61E-07	0.33070342
INSL3	2.61E-07	-0.435848498
Inc-UCK1-1	2.61E-07	-0.332726476
JAZF1	2.64E-07	0.346230315
ANKRD9	2.94E-07	0.501358254
LAPTM4A	3.00E-07	0.372357346
EPHB6	3.38E-07	-0.473463162
RAB31	3.72E-07	1.045081358
SFI1	4.15E-07	-0.60350925
LOC101929531	4.15E-07	0.486714276
SNORD36C	5.43E-07	-0.341306783
TMTC4	5.71E-07	-0.426815781
CCR2	5.77E-07	0.988285034
PPP1R3B	5.84E-07	0.511645813
FASTK	6.06E-07	-0.366145286
CLIC4	6.06E-07	0.432338391
FPR1	6.84E-07	1.393717124
GPR68	6.86E-07	0.851882475
RASA4	7.00E-07	-0.484116313
FAM102A	7.18E-07	-0.389010937
THBS3	7.23E-07	-0.374622736
SRGN	7.98E-07	0.537985192
HERC2P4	9.31E-07	-0.364704111
INAFM2	1.02E-06	0.51670102
LIG1	1.03E-06	-0.404007422
IL11RA	1.10E-06	-0.419613927
TREX1	1.14E-06	0.35572561
ADARB2	1.16E-06	-1.093061125
LOC643733	1.21E-06	0.350508782
MAN1A1	1.34E-06	0.334121873
PI4KA	1.34E-06	-0.362245761
SDR39U1	1.35E-06	-0.389811814
HLA-DMB	1.47E-06	0.626427059
C1orf21	1.50E-06	0.613437274
TMCC3	1.59E-06	0.375121711
LEF1	1.67E-06	-0.44529814
FBXO30	1.68E-06	0.386573819
STIM2	1.72E-06	-0.44920142
TMEM191A	1.78E-06	-0.34659959
NPIPA1	1.79E-06	-0.376074782
SNPH	1.88E-06	-0.576424826
SIN3B	1.88E-06	-0.434945169
FAM46C	1.94E-06	0.331164066
KIFC2	2.01E-06	-0.432515094
LOC728392	2.11E-06	-0.427461851
EPAS1	2.18E-06	0.669122852
LIMK1	2.32E-06	0.360590363
NXPH4	2.34E-06	0.52746945
Inc-RNF144A-3	2.39E-06	0.360003855
KLHL17	2.39E-06	-0.595506363
SLC40A1	2.52E-06	0.456012237
LOC102724814	2.57E-06	-0.381302046
LAT	2.68E-06	-0.395439292
IGF2BP2	2.71E-06	0.471242646
INPP5E	2.76E-06	-0.462848302
TCF7	2.83E-06	-0.336152231
LOC102724297	2.83E-06	0.340370238
PPOX	2.94E-06	-0.465304496

VNN1	3.01E-06	0.41725613
lnc-TMEM63A-1	3.14E-06	-0.551856117
DPEP2	3.25E-06	-0.333087915
NPIP15	3.41E-06	-0.594025178
PIDD1	3.45E-06	-0.443487188
NPIP89	3.49E-06	-0.638173931
GPRASP1	3.61E-06	-0.439626422
GFI1	3.67E-06	-0.393061859
DIRC2	3.73E-06	0.366534235
ABCB4	4.00E-06	0.367618489
HPSE	4.01E-06	1.003825122
TARP	4.14E-06	0.547437877
LOC101926967	4.22E-06	-0.459874125
DDX43	4.28E-06	-0.505670683
lnc-HMBOX1-1	4.50E-06	-0.360841342
LILRA3	4.90E-06	0.965814606
SLC22A4	4.96E-06	0.542025935
HLA-DRB4	5.01E-06	0.714719017
CD300LF	5.09E-06	0.466852327
CST3	5.26E-06	0.503235109
RGPD1	5.64E-06	-0.361074375
CXorf21	5.74E-06	0.361326232
STAT1	5.78E-06	0.649381966
LZTS3	5.78E-06	-0.386831159
LOC101929787	6.10E-06	-0.465798724
YWHAH	6.15E-06	0.409811464
HLA-DPB1	6.16E-06	0.59698741
RGS10	6.55E-06	-0.368197396
SH2B1	6.66E-06	-0.36124308
RAB32	6.70E-06	0.552455302
ANKRD55	6.76E-06	-0.539745554
CD6	6.78E-06	-0.360769901
lnc-WDR1-1	7.04E-06	-0.515063693
PAPSS1	7.09E-06	0.333223512
ANKS3	7.13E-06	-0.412514834
SIGLEC17P	7.17E-06	0.494047357
RHOC	7.23E-06	0.372809087
CHTF18	7.23E-06	-0.537941963
ARRDC4	7.27E-06	0.816936861
HLA-DPA1	7.69E-06	0.675311238
LOC100996286	7.74E-06	-0.590281669
UCN	7.74E-06	-0.468610113
TUBBP5	7.76E-06	0.33355535
POMT1	7.78E-06	-0.384629057
TMEM175	7.97E-06	-0.404954911
PDGFC	8.55E-06	0.846730452
RNASEH2C	8.58E-06	-0.436188377
ALOX5AP	8.61E-06	0.422732948
CCDC50	8.81E-06	0.407189627
LOC101927372	9.15E-06	-0.489917186
GPR160	9.39E-06	0.447799065
LCK	9.57E-06	-0.341030332
CD300A	9.86E-06	0.54776558
LOC101928150	9.99E-06	-0.337177363
TOR4A	9.99E-06	0.592009879
PLXDC1	1.00E-05	-0.388267264
lnc-RP11-277P12.7.1-3	1.01E-05	0.450282238
AMT	1.03E-05	-0.398687366

CTSW	1.03E-05	0.470103878
JMJD7-PLA2G4B	1.03E-05	-0.444621905
HNRNPLL	1.05E-05	0.330398862
TNNT1	1.07E-05	0.435802297
VSTM1	1.09E-05	0.462211803
ADPRH	1.14E-05	0.401000954
CPT1B	1.16E-05	-0.555235589
NBPF11	1.16E-05	-0.358489524
RIT1	1.17E-05	0.388876564
GPAT2	1.19E-05	-0.392746175
JAKMIP1	1.25E-05	0.5568414
LSMEM1	1.25E-05	-0.3998814
LINC00526	1.26E-05	-0.339472362
MAPK8IP3	1.26E-05	-0.549445223
LEPROT	1.26E-05	0.343589742
LOC151174	1.27E-05	-0.457734267
RFPL3S	1.28E-05	-0.342997895
C12orf75	1.29E-05	0.412794474
TBX21	1.31E-05	0.687394515
COL6A1	1.34E-05	-0.499281926
lnc-IGSF3-1	1.35E-05	0.332021728
APOBEC3G	1.36E-05	0.581900897
FNDC3B	1.37E-05	0.583403823
C22orf29	1.39E-05	-0.360357418
FBXO6	1.41E-05	0.340617
ADAMTS10	1.43E-05	-0.482097826
OSCAR	1.44E-05	0.452276992
TLR1	1.47E-05	0.616345449
RBM6	1.48E-05	-0.374180297
ABHD17C	1.48E-05	0.457195391
TRGV7	1.48E-05	0.74745283
RAMP1	1.51E-05	0.633558171
GOLGA6A	1.62E-05	-0.338203843
SOX8	1.62E-05	-0.412317183
ACACB	1.63E-05	-0.345755402
MARVELD1	1.64E-05	0.420739705
SLC16A6	1.64E-05	0.823847162
LINC01089	1.65E-05	-0.396753673
HMHA1	1.67E-05	-0.342977817
WSB2	1.68E-05	0.468492522
TBC1D10C	1.70E-05	-0.41505804
CXCR3	1.75E-05	0.362714624
LRRK2	1.77E-05	0.419634689
HLA-DRB3	1.78E-05	0.719564955
RHPN1	1.78E-05	-0.540782561
S100A9	1.83E-05	1.135768973
MAN1C1	1.84E-05	-0.334678481
lnc-CDC25B-1	1.90E-05	-0.383985543
SDCBP	1.94E-05	0.521211066
SGSM2	2.05E-05	-0.357958905
SAT1	2.07E-05	0.533361516
lnc-AL137145.1-3	2.09E-05	-0.335563432
APBB1	2.12E-05	-0.398831635
ITGB5	2.17E-05	0.373652969
LMNTD2	2.18E-05	-0.409033017
LOC100134317	2.22E-05	-0.747927081
MXD1	2.23E-05	0.408343161
OVGP1	2.33E-05	-0.355137137

STOM	2.36E-05	0.574573335
ABCC5	2.44E-05	-0.367684086
IL13RA1	2.47E-05	0.650649883
EGFL8	2.53E-05	-0.369188154
TRAF3IP3	2.64E-05	-0.454804809
TRH	2.68E-05	0.514100381
PRDM1	2.73E-05	0.4579107
ST8SIA4	2.88E-05	0.345830548
ADRB2	2.94E-05	0.375904401
SLC5A3	2.95E-05	-0.432082185
TRPS1	2.96E-05	0.338746769
LAMP2	2.96E-05	0.411393839
SUSD1	3.00E-05	0.725190643
ABCA7	3.02E-05	-0.435382117
MCTP1	3.02E-05	0.356987058
HOXB2	3.05E-05	-0.493256507
SGK223	3.08E-05	-0.431400102
FCGR1B	3.19E-05	0.479283917
NDST1	3.21E-05	0.631350936
CIRBP	3.23E-05	-0.503177841
MEGF6	3.29E-05	-0.414514708
ENO2	3.30E-05	-0.387873164
ANXA1	3.30E-05	0.556579851
GOPC	3.30E-05	-0.385978313
GBP5	3.31E-05	0.796211598
ASPH	3.41E-05	0.598778965
TCAP	3.56E-05	-0.338389451
SAMD3	3.65E-05	0.417606139
ANKRD13D	3.74E-05	-0.391010278
CLASRP	3.84E-05	-0.353861114
RBL2	3.87E-05	-0.359605123
GLUL	3.97E-05	0.901004252
TAF1C	4.09E-05	-0.487829529
SLC39A8	4.14E-05	0.564531381
LAP3	4.19E-05	0.34749776
CLIC5	4.20E-05	0.392777036
FAM193B	4.28E-05	-0.392372749
CA13	4.36E-05	0.384860881
SAP25	4.45E-05	-0.618920706
RAB33A	4.52E-05	-0.552451232
LAG3	4.54E-05	0.477350651
PALLD	4.59E-05	0.394077549
SNORA70	4.59E-05	-0.364322006
GPR84	4.70E-05	0.576315111
Inc-TMED5-1	4.78E-05	-0.491437102
TRIB3	4.79E-05	0.43522222
NDST2	4.87E-05	0.336452738
TNFRSF1A	4.99E-05	0.446906102
TLR7	5.04E-05	0.429520894
AOAH	5.04E-05	0.49788201
RASGRP2	5.06E-05	-0.35726086
CD53	5.10E-05	0.338719783
PLAG1	5.16E-05	-0.4253772
TNFRSF25	5.22E-05	-0.492721656
FGFBP2	5.26E-05	0.642164253
KLRD1	5.34E-05	0.665664076
SLC37A2	5.42E-05	0.62702831
TOX2	5.44E-05	-0.364446616

HTR7	5.44E-05	0.562474048
CPAMD8	5.48E-05	0.345381918
CASP5	5.48E-05	0.484417729
SKAP2	5.56E-05	0.610134964
MALAT1	5.58E-05	-0.468556707
AQP9	5.60E-05	1.3886985
HLA-B	5.77E-05	0.644836416
KLHL3	5.82E-05	-0.357627659
PILRB	5.92E-05	-0.499861883
FTHL17	5.99E-05	0.409609604
PDE2A	6.08E-05	0.437290358
Inc-CXCL2-1	6.20E-05	0.545626786
TARDBP	6.39E-05	-0.331431429
TBK1	6.45E-05	0.45979786
MCM7	6.45E-05	-0.373471154
MYO1F	6.95E-05	0.467662673
CTSS	7.12E-05	0.347611604
CXCL16	7.12E-05	0.605706194
ENTHD2	7.18E-05	-0.420172135
IFNG	7.57E-05	0.547244362
APOBR	7.59E-05	0.691267704
ZFYVE16	7.71E-05	0.578372571
BTB	7.84E-05	0.397791152
ATP6V0B	7.86E-05	0.425166135
SNORA61	8.02E-05	-0.366495039
EVL	8.11E-05	-0.338256749
QPCT	8.19E-05	0.648053547
RXRA	8.32E-05	0.569157405
CLIC3	8.48E-05	0.500350525
GZMK	8.54E-05	0.578052126
BMP6	8.56E-05	0.409549311
MAFF	8.58E-05	0.449593581
TMEM189	8.64E-05	0.397136908
SLC43A2	8.65E-05	0.893848103
CHKB	8.97E-05	-0.377139463
LOC388780	9.15E-05	0.362306396
LHFPL2	9.45E-05	1.211704174
LOC730257	9.64E-05	-0.376804127
WIP1	9.69E-05	0.624357491
ZNF503	0.00010008	0.34306115
TMEM80	0.00010015	-0.340971712
HNRNPA1	0.000103568	-0.346403394
S100A10	0.00010398	0.747513625
FBXL16	0.000104785	-0.397637834
ZEB2	0.00010512	0.783491611
GOLGA8A	0.000105555	-0.699553324
HAVCR2	0.000108449	0.537355422
NAA16	0.000108465	-0.333418241
Inc-LRRC10-1	0.000113118	0.888538593
MAMLD1	0.000113576	0.338191574
ITPR1L2	0.00011426	0.663121638
TGFBR3	0.000115596	0.370995591
ALDH2	0.000116069	0.65527894
PLBD1	0.000117732	0.571836363
POLG2	0.000118143	-0.345112954
NKG7	0.000119386	0.587085711
ADD3	0.000120346	-0.347700485
SGPL1	0.000122403	0.353360554

CXorf65	0.000125188	-0.478645549
TIMP1	0.000127313	1.161599666
PAN2	0.000127345	-0.355020765
PLEKHO2	0.000129111	0.623475929
CLEC4A	0.000130896	0.720059356
VASP	0.000131028	0.374860908
C3AR1	0.000131484	0.532411773
SOD2	0.000131484	1.160374982
MCEMP1	0.000133634	0.892111026
PMAIP1	0.000134109	0.345683762
NETO2	0.000136273	0.368158715
TUBGCP6	0.000136861	-0.422634065
HERC2P2	0.000140758	-0.413241101
S100A2	0.000140831	0.417565197
TMEM204	0.00014453	-0.552741523
XLOC_I2_006789	0.00014469	0.476388228
CCL5	0.00014469	0.615773891
B3GNT5	0.000144729	0.85548211
PLSCR1	0.000145338	0.777984033
KANK1	0.000146164	0.640304901
NPC2	0.000146529	0.643696918
GLT1D1	0.000148227	0.473358956
NRP1	0.000149165	0.647206073
AMY1C	0.00015277	-0.389865643
SRC	0.000152865	0.684250404
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SPINK1	0.00015329	1.05353406
VRK2	0.000159417	0.550359172
TNFSF14	0.000163382	0.497775523
SEC24D	0.000165034	0.505152069
TRIB1	0.000165034	0.749225161
ATAD3B	0.000168676	-0.338068889
PSTPIP2	0.000168903	0.389526787
LILRB3	0.000169181	0.933972763
KIR2DL2	0.000171004	0.361451727
LILRA6	0.00017104	0.668324262
CD36	0.000173208	0.935655848
NTSR1	0.000173568	-0.386196666
S100A12	0.000174103	1.143485417
BBS2	0.000174233	-0.342793992
GBP1	0.000177103	0.787008985
FRMD4B	0.00017737	0.361365234
OCM2	0.000178529	-0.392369066
IFNGR1	0.000178983	0.407761073
RIMBP3	0.000181166	-0.34813054
LGALS9C	0.000182178	0.422859787
CX3CR1	0.000187651	0.64544693
RHOU	0.000187675	0.751578599
CASP7	0.000188615	0.389679258
S100A8	0.000190115	1.346073218
GNB4	0.000193062	0.719917736
ACTR2	0.000196265	0.341827158
GZMH	0.000196318	0.933249665
PLXDC2	0.00020147	0.789397221
TP53I3	0.000202846	0.333775706
COL1A1	0.000206495	-0.525362344
RNF13	0.000209804	0.417005123
RHOBTB1	0.000210781	0.47711166

KLRB1	0.000212786	0.783617959
WNT5A	0.000215141	0.392054505
LOC339192	0.00021524	-0.551605645
FASLG	0.000219636	0.629255887
CD74	0.000223127	0.395657243
MILR1	0.000226784	0.459521911
PTGFRN	0.000227025	0.389811911
KIR2DS2	0.000234931	0.39691184
CLEC7A	0.000236726	0.451138481
MARCO	0.000238776	0.83449034
NXF1	0.000239431	-0.377946862
FAM134B	0.000245283	-0.411063653
CEP290	0.000245836	-0.37430368
PLCB2	0.000247418	-0.338893417
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ATP6V1A	0.000260746	0.372437204
GOLGA2P7	0.000263697	-0.331062237
VIM	0.000268493	0.454082814
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LOC100132891	0.000275084	0.334740885
DOCK4	0.000275576	0.830973482
PLA2G7	0.00027759	1.442146402
CMTM8	0.000291423	-0.376582333
CKAP4	0.000295022	0.434834864
PVRL2	0.000298692	0.547402649
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ANXA2P1	0.000307324	0.815683741
HCG8	0.000310718	-0.360925809
CLEC5A	0.00031077	0.954427932
ANPEP	0.00032028	0.877066481
XLOC_I2_015478	0.000322847	0.516813045
Inc-RP3-377D14.1.1-7	0.000327312	-0.426117859
LOC101930246	0.000331296	0.572248584
NRIP3	0.000335974	0.492482355
ACTB	0.000341378	0.386028547
FTH1	0.000343147	0.565560939
APLP2	0.000356328	0.474467999
LAMB3	0.000378931	0.686463106
GNLY	0.000379236	0.423844557
CDK14	0.00038499	0.471258927
NPDC1	0.000385229	0.335856794
NCS1	0.000387154	0.360401245
FAM198B	0.000388335	0.968379865
FADS1	0.000389845	0.37887918
PLEKHB1	0.000393622	-0.353284067
CD226	0.00039879	0.512769235
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PGD	0.000404672	0.525893517
CD93	0.00040663	0.932209564
RCN1	0.000408464	0.393310581
CASP4	0.00040923	0.421568004
HTRA1	0.000413441	0.827249228
SLC16A3	0.00041419	0.687848788
S1PR5	0.000416969	0.563281602

HLA-DRA	0.000425878	0.469911948
PNPLA7	0.000427564	-0.425608179
CD163	0.000429851	1.158522563
HK2	0.000430106	0.620328783
RBM47	0.000431021	0.552175239
STARD8	0.000434551	0.537222854
APOBEC3B	0.000439114	0.868266752
LRRC25	0.000440131	0.800522172
PDLIM7	0.000456666	0.345315635
NUAK1	0.000456666	0.502811866
MARCKSL1	0.000461902	0.348164158
ARHGEF10L	0.000473226	0.843126646
C15orf48	0.000476366	1.384548122
lnc-PLEKHG6-1	0.000478929	0.341098996
XK	0.000479138	0.360294718
MYL9	0.000483101	0.405457509
PKIA	0.000484709	-0.341300451
lnc-BZRAP1-1	0.000488931	-0.515778802
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GSTM3	0.000491158	-0.564781308
DUSP6	0.000492759	1.117204185
ITGB1	0.000497002	0.369515069
DZANK1	0.000497086	-0.441999144
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SCARNA22	0.000512199	0.406308163
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PHLDA2	0.000518635	0.56691433
LOC101928173	0.00052845	0.367489901
IDO1	0.000533616	0.800255672
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C5AR1	0.000538933	1.133268043
PARP14	0.000546987	0.372466039
LATS2	0.000549632	0.398036517
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ANXA2	0.00055941	0.46146835
TYROBP	0.000560519	0.746625509
CPVL	0.00056659	0.724437316
XLOC_l2_004840	0.000566782	0.374488913
KYNU	0.000567526	0.900660166
CTSF	0.000570732	-0.365900129
PTPN12	0.000585433	0.636366241
LOC728975	0.000585479	0.346772291
S100A4	0.000585479	0.726900643
FCGR2A	0.000589284	0.677239194
MAP3K8	0.000597107	0.372194855
PTGS1	0.0005984	0.483432417
NAGA	0.000615427	0.356682808
AANAT	0.000616363	-0.407379477
SLC15A4	0.000624692	0.333305471
AGPAT9	0.000625437	0.670759096
DPRX	0.000626112	-0.410114814
EPB41L3	0.000628496	0.780331186
SWAP70	0.000630678	0.418177956
PEX6	0.000636378	0.420541569

CLMN	0.000639125	0.347080411
DHRS9	0.000639125	0.702277291
PLEKHG3	0.000646634	0.418145926
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COTL1	0.000659946	0.472377063
PPFIBP2	0.000661731	0.353084209
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FAM13A-AS1	0.000667872	-0.349132415
ZAK	0.000667872	0.680068262
MGAT1	0.000673927	0.404101128
NET1	0.000674438	-0.331413796
KMO	0.000677289	0.679822024
ANXA5	0.000684132	0.625588733
OLR1	0.000684721	1.108077246
PRF1	0.00069473	0.435584418
TNFRSF9	0.000697557	0.428555696
SERPINB2	0.000698509	1.028963225
GPX1	0.000699419	0.501345235
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MS4A14	0.00071184	0.336809796
DBH-AS1	0.000721812	-0.47654858
NPC1	0.000728445	0.350530582
POTEI	0.000735814	0.356230363
CD63	0.000745234	0.742362359
CD14	0.000755628	1.064674684
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TBC1D12	0.000801944	0.461308929
GCC2	0.0008077	-0.422278915
LGALS1	0.000809554	0.647916126
MAFB	0.000824282	1.078202698
CYBB	0.000825099	0.912706431
MPZL2	0.000828733	-0.343249252
LAYN	0.000832525	-0.373075299
CCL7	0.000835862	1.0461894
PID1	0.000841167	1.079255213
ITGAX	0.000841249	0.54018113
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PPIF	0.000881396	0.675099308
VCAN	0.000900004	1.036138482
DMXL2	0.00092414	0.454126835
EMP1	0.000927818	0.984559263
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SLC7A5	0.000942543	0.359181658
BCAR3	0.000948344	0.365433122
ETS2	0.000955248	0.385781161
CD58	0.000974969	0.388596165
MYO1G	0.000975726	0.372301909
CXCR6	0.000992583	0.476849369
HS3ST1	0.000998781	0.937684395
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FCN1	0.001009469	0.899505936
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CSF3R	0.001044729	0.558402257
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CYFIP1	0.001059817	0.7282811
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MARCKS	0.001077335	0.74085209
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XLOC_12_012847	0.001131162	0.332084083
GZMB	0.001132832	0.78732015
PERP	0.001137545	0.333583066
FPR3	0.001139151	1.233437646
TRIM58	0.001145181	0.712529549
EEPD1	0.001147735	0.695230759
SDC4	0.001149334	0.404479022
ANO6	0.00115318	0.336077928
KANK2	0.00116121	0.354736529
PLA2G4A	0.00117055	0.46738601
LILRA4	0.001185142	0.557014041
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PLEK	0.00120992	0.722663064
FCER1G	0.001211945	0.425729303
SAMD9L	0.001237711	0.552759442
COL18A1	0.001245293	-0.543485859
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SMCO4	0.001279649	0.50842327
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SEMA4A	0.001311739	0.486934603
SLA2	0.001316852	0.338856322
METRNL	0.001324474	0.463089111
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TLR4	0.001358075	0.719083641
LILRA2	0.001367404	0.473298961
NCF2	0.001375932	0.875918973
CXCL9	0.001414364	0.396988352
GAPDH	0.001457039	0.38684845
PRR5L	0.001479213	0.52065996
HCAR3	0.001479213	0.948845454
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MFSD7	0.001532761	0.339300718
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TESPA1	0.001592924	-0.391553926
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CLIC1	0.001661702	0.394010714
PSPHP1	0.001662114	1.545621994
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CASP1	0.001670791	0.862563953
SFT2D1	0.001678345	0.334223505
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RAB13	0.001768612	0.370006916
TNS3	0.001769018	0.532062817
TFEC	0.001816403	0.682774644
VMO1	0.001852922	0.587104789
SPON1	0.001888332	-0.374682957
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CCR5	0.001986216	0.896438082
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GLIPR2	0.002042158	0.38697408
SERPINA1	0.0020519	0.607579472
ENG	0.002061287	0.6000331
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CARD6	0.002155033	0.412098925
TNFRSF21	0.002180384	0.384134129
CMPK2	0.002184706	0.677368469
IRAK2	0.002219766	0.475537672
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CTSL	0.002236154	0.639540819
Inc-BTG3-2	0.002245701	-0.350140409
CCL2	0.002294282	1.599711809
HK3	0.002300804	0.462612451
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CD9	0.002811064	0.429499637
ATP6V1B2	0.002818395	0.419423086
KIAA0226L	0.0028608	0.335240581
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CPNE5	0.002889069	0.356655639
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CXCL8	0.002939184	1.138475838
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IL1RN	0.00302609	0.716308513
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EMILIN2	0.003235415	0.765309109
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PTX3	0.003441814	0.69600082
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CD151	0.003445665	0.492133293
FAM49A	0.003456367	0.40941542
CECR1	0.003464157	0.404039199
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LAIR1	0.003499335	0.430502161
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SNAR-A3	0.003583625	0.44610602
HMOX1	0.003684202	0.84836653
CST7	0.003706914	0.488118532
CALD1	0.003775196	-0.38218521
ELOVL7	0.003800787	0.470786781
ITGAV	0.00385418	0.505651423
IL1B	0.003932303	1.338051798
SLC7A11	0.004021604	1.174218352
FGL2	0.004073641	0.597858198
OLIG1	0.004102264	0.675102155
KLRF1	0.004141057	0.353885557
TGFBI	0.004164442	1.0547394
GZMA	0.004177834	0.571170539
HLA-DRB1	0.004230456	0.39080624
GSDMB	0.004402424	-0.454138491
GK3P	0.004433653	0.359185593
AKR1C8P	0.004518322	0.417480941
CEBPA	0.004535263	0.392478855
CARD17	0.004539919	0.509282108
RGL1	0.004544383	0.681771506
SLC11A1	0.004575022	0.427387893

ALCAM	0.004615379	0.58896284
TALDO1	0.004648099	0.355817172
TM4SF19	0.004659112	0.535529351
GPR56	0.004659421	0.641759212
NFAM1	0.004728022	0.365639814
ATP13A3	0.004739754	0.410768255
IL18RAP	0.004780261	0.492874047
SH3YL1	0.004853475	-0.347730676
XLOC_I2_015849	0.004882082	-0.396638372
METTL7A	0.004916628	0.345885373
CORO1C	0.004935639	0.507928095
PRSS36	0.004987144	0.499357002
LY86	0.005005932	0.378670105
NLRP3	0.005149581	0.398496296
BCAT1	0.005149581	0.489466804
NEAT1	0.005158671	-0.397020896
ADM	0.005197818	0.742784152
TXN	0.005279661	0.579341669
PLAU	0.005321876	0.341451555
RSAD2	0.005405936	0.732764621
LOC441081	0.005459538	0.372760975
PSAP	0.005542897	0.575352529
SNHG1	0.005556537	-0.337348081
RAB7B	0.00561032	0.377077123
IER3	0.005657148	0.614019889
DAB2	0.005747216	0.625635403
CD40LG	0.00579096	-0.346900468
Inc-APOBEC3F-1	0.005802599	0.34578222
IL23A	0.006036927	-0.411034726
S100A6	0.006037005	0.547964215
FGR	0.006207889	0.616315142
XCL1	0.006221572	0.384865585
GRN	0.006293819	0.497221492
DRAM1	0.006348277	0.544213015
NCEH1	0.006380659	0.569277409
CYP1B1	0.006414664	0.906416254
ADAP1	0.006472316	0.356925146
DIRC1	0.006478786	0.435959457
SEC31B	0.006508826	-0.378129815
CHST7	0.006594663	0.392035122
IGSF6	0.00664961	0.56310458
HCK	0.006789458	0.656427985
CREG1	0.00681437	0.667836078
ATHL1	0.006958758	-0.458534208
CTSB	0.006971169	0.532651288
ABCA1	0.007091376	0.449326812
FCGRT	0.007126778	0.436208505
SLC8A1	0.007138276	0.4191673
ACP5	0.007158578	0.394964328
CTSH	0.007163628	0.361768736
PPARG	0.007279707	0.434251257
CD109	0.007286943	0.489950871
MGST1	0.007628713	0.595409137
CD300E	0.007690848	0.519701282
ACSL1	0.007768594	0.521489923
FTL	0.007783113	0.547545343
ATF5	0.007878437	0.357871808
Inc-METAP1-3	0.008052429	-0.334751909

SRXN1	0.008132275	0.752122918
LOC644135	0.008175513	-0.350080847
CSTB	0.008282263	0.486006912
CTNNA1	0.008508259	0.40702685
AIM2	0.008589926	0.361430577
PTCRA	0.008606185	0.471763212
LILRB1	0.008747244	0.557239857
NEURL1	0.008908274	0.429841421
TMEM51	0.008938286	0.753882194
SPON2	0.009062823	0.527525793
MYLK	0.009166758	0.345889458
PPAP2B	0.00920441	0.357136735
MRAS	0.009216897	0.447272301
XLOC_I2_004867	0.009253759	-0.334586276
RSRP1	0.009391773	-0.34939847
PDK4	0.009414694	0.479909697
THBD	0.009657586	0.791242041
FAM177A1	0.009871506	-0.368795886
OAS1	0.009881036	0.349196014
LACC1	0.010217044	0.424211769
ATG16L2	0.010226143	-0.344188003
TUBB1	0.010366049	0.573629245
STAB1	0.010372303	0.409261981
KCNE3	0.010633416	0.437561356
ERAP2	0.010654639	-0.446052017
ASAH1	0.010777436	0.361436005
LINC01272	0.010807384	0.45753972
C15orf39	0.010841568	0.333946615
MIR146A	0.011212846	-0.34712019
RNF144B	0.011255996	0.388937361
IL1R2	0.011304178	0.504661021
P2RX4	0.011323385	0.425291745
SLC35F3	0.011774197	-0.355352597
SNAR-B2	0.011942549	0.485230013
MMD	0.012296007	0.357179714
MS4A7	0.01255965	0.744700463
BASP1	0.012659422	0.392547552
EOMES	0.012823491	0.40230151
VDR	0.012845831	0.453528161
GCGR	0.013024542	-0.492531341
HES4	0.013076294	-0.358405601
CARD16	0.013879421	0.515628423
AATK	0.014064399	0.332583975
ADAP2	0.014263398	0.463419346
SECTM1	0.014269157	0.485046343
FCAR	0.014390788	0.504332787
BEST1	0.014529306	0.339059339
LOC102724332	0.014575256	0.332654266
CFD	0.014586557	0.723833986
RPS26	0.014629648	-0.490107593
DMTN	0.015204726	0.350457061
C3	0.015366353	0.344200475
PER1	0.015553027	-0.388543388
CTSZ	0.015707817	0.403679767
SNCA	0.01624176	0.407725367
CLIC2	0.016796899	0.337226157
PLXND1	0.017204783	0.424379842
PTPRE	0.017793823	0.350839014

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FAM129A	0.017819852	0.364275222
CDH1	0.017877072	0.355387642
NEURL3	0.018795642	0.391146095
lnc-SMAD6-1	0.01907867	-0.410864823
PRR7	0.01907867	-0.388503346
CLU	0.019361993	0.413298784
S100A11	0.01971477	0.376765405
lnc-RNF13-2	0.01995356	0.372204011
GAPT	0.020556289	0.367218034
GPR162	0.021619354	0.434327098
AGAP3	0.021831508	0.333618875
C1orf122	0.022549099	0.34833647
RNASE6	0.022805597	0.389484772
CXCL2	0.023034913	0.687940769
CSF1R	0.02339774	0.623813453
FUCA1	0.024023481	0.623209588
LGALS3	0.024320502	0.451405401
CCRL2	0.024454646	0.355896498
TUBB6	0.024757788	0.460917098
TNS1	0.025161458	0.404421291
IFIT3	0.025747974	0.437750592
IFIT1	0.026531749	0.436133309
NFE2	0.027108265	0.410677408
G0S2	0.027440963	0.710591853
PTGS2	0.027860445	0.424634104
VPS37C	0.029685096	0.365797991
CXCL3	0.029702605	0.791308494
RGAG4	0.029766001	0.33049808
SRMS	0.029799009	0.412867089
KRTAP19-2	0.029850279	0.54182206
CTSD	0.031382636	0.337459867
NDP	0.031603951	-0.368616035
SMPDL3A	0.032193478	0.340196307
MMP19	0.032902859	0.492758823
SPOCD1	0.033289168	0.348820634
DDX60L	0.034052738	0.380325136
CCL3	0.034182068	0.651196159
KLRC1	0.034558559	0.331803124
HLA-DRB6	0.036039455	0.360307036
THEMIS2	0.039609807	0.335003389
LOC100653133	0.039950249	-0.353735435
IGFBP7	0.040841891	0.337126963

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at 3 m 135 DEGs specific for Part group			at 3 m 1305 DEGs shared between Part and Full groups			at 3 m 336 DEGs specific for Full group		
3 m part specific	adj.P.Val	logFC	3m shared	adj.P.Val	logFC	3 m full specific	adj.P.Val	logFC
ERMARD	1.17508E-19	0.606886814	DAZAP1	4.10E-10	0.414034784	SMC3	2.17E-15	0.485186252
DAK	6.37022E-19	0.377534104	PRRC2C	5.22E-10	0.808155899	HSPB9	1.08E-14	0.440691339
AMOTL1	3.66109E-18	0.558970466	SNORD1C	6.36E-10	-0.526543618	LOC100128002	2.12E-14	0.380936014
BCORP1	9.07012E-18	-0.37535021	NEMF	2.12E-09	0.621489837	TMEM242	2.12E-14	0.352239096
GP1BA	9.28039E-18	0.331733601	CEP95	3.42E-09	0.656828066	lnc-UVRAG-2	4.42E-13	0.481959034
MYH3	1.08513E-17	0.50309746	MAFA	8.79E-09	-0.554700738	lnc-NOL6-2	5.47E-13	0.428849282
lnc-CCL1-1	1.27133E-17	0.387910833	NOL8	1.62E-08	0.464404942	ZDHHC17	6.29E-13	0.358513064
UBP1	1.31996E-17	0.458348982	KRTAP19-2	1.08E-07	-1.892019559	MAP4K4	7.31E-13	0.602844707
GET4	1.97413E-17	0.363024542	LOC101927078	1.15E-07	-0.498933444	UQCC1	8.25E-13	0.377029826
TMEM198B	1.97413E-17	0.477039084	RNF32	1.49E-07	-0.577995181	LPIN2	2.83E-12	0.451090121
P4HTM	2.62717E-17	0.582030863	SNORA55	1.49E-07	-0.686766484	lnc-GIP-1	2.91E-12	0.511721888
MRI1	6.6837E-17	0.772276166	C9orf62	1.63E-07	-0.688591473	KIAA1033	3.66E-12	0.557498703
DROSHA	7.57011E-17	0.518192727	lnc-GPR12-1	2.91E-07	-0.580930992	PTAR1	1.54E-11	0.400332392
LRRC1	1.29609E-16	0.514275318	RNF44	7.21E-07	0.363584478	FAM86C2P	1.72E-11	0.368936001
CDC16	1.29609E-16	0.622658075	CDK16	7.83E-07	0.585389938	C5orf34	1.80E-11	0.46046731
ANAPC4	1.42105E-16	0.479928348	SRSF11	8.32E-07	0.652500185	UGGT2	1.96E-11	0.348830444
MUM1	3.03331E-16	0.342463955	PNISR	9.54E-07	0.49346589	ZDHHC13	1.99E-11	0.482428161
FAM156A	3.03331E-16	0.988935683	CLASRP	1.26E-06	0.575131962	TOP1	2.22E-11	0.442236648
DNASE1	4.18656E-16	0.441814626	EP400	1.27E-06	0.411138857	DGCR8	3.40E-11	0.486874373
C17orf70	5.1514E-16	0.44863879	SCARNA22	1.48E-06	-0.787043025	MTMR10	3.47E-11	0.481817376
LOC101927577	6.20995E-16	0.422656128	NLRP1	2.03E-06	0.465583962	FAM132A	4.10E-11	0.445565679
C1QTNF6	6.81219E-16	0.500230985	lnc-OPN4-2	2.17E-06	-0.508032948	TMED7-TICAM2	4.89E-11	0.341810338
PABPN1	6.94522E-16	0.339892614	SP8	2.38E-06	-0.482580607	lnc-AGPAT6-1	4.89E-11	-0.34026677
CASD1	7.0445E-16	0.339397808	ZFC3H1	2.82E-06	0.366698598	ZNF358	5.09E-11	0.424089747
DNAH1	7.0445E-16	0.542659192	TNFRSF25	2.90E-06	0.784121222	PDHX	5.44E-11	0.343278926
TRMT2A	7.73425E-16	0.377707238	CRACR2B	3.45E-06	-0.440587277	lnc-SFI1-1	5.48E-11	0.462622837
STK25	7.73425E-16	0.502982326	LOC101927206	3.71E-06	-0.336096836	RWDD4	5.50E-11	0.373495791
FAM219B	7.73425E-16	0.533596064	VSX1	4.33E-06	-0.642270045	LOC389033	8.21E-11	0.371749187
HEXDC	7.73425E-16	0.905209406	KIAA0753	4.34E-06	0.442875487	TNKS2	9.77E-11	0.343951971
lnc-BZRAP1-1	7.7994E-16	1.237951898	lnc-BPHL-1	4.42E-06	-0.333645547	RAB28	1.14E-10	0.345243364
ZSWIM8	8.31849E-16	0.532710345	SNORD27	5.23E-06	-0.632814683	lnc-ERLEC1-1	1.23E-10	0.341889705
BABAM1	9.64605E-16	0.350289048	XLOC_I2_010854	5.38E-06	-0.417073567	XLOC_I2_015203	1.32E-10	-0.33676588
THBS3	9.64605E-16	0.606284351	MAPK8IP3	5.39E-06	0.777901363	DTWD1	2.00E-10	0.486892671
MTOR	9.98949E-16	0.382131377	MRGPRG	5.49E-06	-0.473494926	LOC284014	2.10E-10	0.502984165
MYO18A	1.2463E-15	0.336386625	SNORA26	7.31E-06	-0.369480624	MYEF2	2.14E-10	0.550591915
NCLN	1.3937E-15	0.385935163	SNORA36A	7.42E-06	-0.557110909	AOC3	2.47E-10	0.545599789
FAM111A	1.43657E-15	0.455576282	CCDC84	7.69E-06	0.586124076	MFI2-AS1	3.18E-10	0.352736497
PLEKHG4	1.48482E-15	0.637001625	LOC643802	7.98E-06	1.018721109	CDC5L	3.42E-10	0.472166512
ATR	1.51485E-15	0.364219211	CES1	8.14E-06	-0.591241685	ARFGF2	3.61E-10	0.392891571
ANKS3	1.62468E-15	0.735860857	AKAP17A	8.74E-06	0.356166118	ACTR5	4.10E-10	0.405516069
MAEA	2.18563E-15	0.390405991	SNORD12	8.98E-06	-0.508792907	KDM3B	4.10E-10	0.362808411
AFG3L1P	2.31504E-15	0.45015043	SEN7	9.35E-06	0.334956328	ZNF706	4.40E-10	0.357472991
B3GAT3	2.3276E-15	0.423339386	LOC284513	9.53E-06	0.452917672	SNORD117	4.44E-10	0.438096464

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SLC26A11	2.3276E-15	0.515531468	LOC100129406	9.88E-06	-0.382630456	USP8	5.84E-10	0.422601325
GTPBP3	2.37061E-15	0.525685179	GRHL1	1.13E-05	0.506290083	lnc-COPZ2-1	6.36E-10	0.352983774
MSTO1	2.64425E-15	0.503307312	FNBP4	1.15E-05	0.621007349	OSBPL8	6.55E-10	0.420510215
C4B	2.77928E-15	0.397713939	SNORD76	1.21E-05	-0.60833889	lnc-ZNF30-1	6.57E-10	0.369211032
TMCC2	2.77932E-15	0.367192441	XAGE-4	1.34E-05	-1.078581997	TAX1BP1	6.57E-10	0.396683024
BBS4	3.8183E-15	0.431780693	FSD1	1.44E-05	-1.573659747	ANKRD13C	8.10E-10	0.352344844
ZRANB2	4.19173E-15	0.746184205	NFKBIZ	1.45E-05	0.485492137	C11orf57	8.10E-10	0.438248852
KNTC1	4.62375E-15	0.469238677	lnc-WDR69-2	1.47E-05	-0.884516742	lnc-RP11-677C1.2.1-1	1.01E-09	0.366564289
KIF9-AS1	4.71179E-15	0.345944416	lnc-BTBD19-1	1.65E-05	0.43666385	TBXA2R	1.01E-09	0.446546606
lnc-MACROD1-1	4.96092E-15	0.519409037	TIA1	1.65E-05	0.373879175	LINC00577	1.01E-09	0.343939372
WDR19	5.83484E-15	0.549908098	SNORD21	1.65E-05	-0.505121751	LARP1B	1.01E-09	0.502551486
HLCS	6.06883E-15	0.393201796	SNORD84	1.66E-05	-0.492869626	RIF1	1.01E-09	0.526161475
CARS2	6.25462E-15	0.600305818	lnc-CADPS-1	1.67E-05	-0.458526011	ZNF641	1.04E-09	0.357197189
GNRH1	6.41777E-15	0.45452741	FOS	1.68E-05	0.93149711	PLRG1	1.09E-09	0.398926813
LMF2	6.63067E-15	0.400404648	RHOH	1.68E-05	0.755052749	NIPBL	1.09E-09	0.40888636
CUL9	6.63067E-15	0.415811192	ATAD3B	1.80E-05	0.527758991	SRRM1	1.09E-09	0.623445364
DLEU1-AS1	7.11136E-15	-0.33357362	PRPF4B	1.83E-05	0.357558817	ANKMY2	1.13E-09	0.350112405
PPP1R12C	7.11136E-15	0.706830798	NBPF10	1.89E-05	0.499479743	STAG1	1.36E-09	0.487316688
STK11IP	7.53466E-15	0.491255345	SNORA60	1.91E-05	-0.526737382	MT1A	1.76E-09	-0.5656195
HDAC3	8.18985E-15	0.343060957	ABCB6	1.91E-05	0.399694285	JMJD1C	1.97E-09	0.539673562
lnc-NSMCE1-1	8.18985E-15	0.369426806	CEP290	2.01E-05	0.596985583	FOXJ2	2.17E-09	0.456799848
CFAP70	8.70043E-15	0.454880866	ZC3H12A	2.09E-05	0.400297417	BIRC2	2.19E-09	0.636080268
MED15	8.81855E-15	0.377278994	EVL	2.18E-05	0.49628285	BAZ2B	2.40E-09	0.386996494
MTA1	9.93051E-15	0.516859964	LOC403323	2.21E-05	-0.515401525	PPP1R12A	2.40E-09	0.33447556
EML3	9.93283E-15	0.44444467	SNORA80A	2.23E-05	-0.365158318	CEP120	2.40E-09	0.476572085
ACRC	1.08421E-14	0.813854433	MINOS1-NBL1	2.31E-05	0.804916008	SNORA38	2.51E-09	0.368127873
OGT	1.16666E-14	0.721883562	ZFYVE27	2.31E-05	0.388973012	GNAS	2.69E-09	0.43737137
CC2D1A	1.18592E-14	0.359035054	PPP1R14A	2.66E-05	-0.474432735	EFCAB7	3.09E-09	0.719867657
SLC39A13	1.18592E-14	0.549169894	SNORD80	2.77E-05	-0.334029514	UBXN4	3.24E-09	0.430371362
ANAPC5	1.26938E-14	0.431903867	FAM177A1	2.96E-05	0.825631515	XLOC_l2_000018	3.30E-09	0.437958028
MAN1B1	1.32872E-14	0.353119891	PDE8A	3.29E-05	0.363441325	PI4KAP2	3.42E-09	0.514033617
lnc-CPLX1-2	1.38891E-14	0.338874146	SNORD71	3.50E-05	-0.552491227	lnc-GSTO2-2	3.49E-09	0.518079625
HNRNPA3	1.39152E-14	0.331452027	ZNF184	3.63E-05	0.568967749	C19orf53	3.51E-09	0.389956355
MFN1	1.39152E-14	0.381129399	RLTPR	3.71E-05	0.336398881	HEG1	3.53E-09	0.58596152
DGKZ	1.39152E-14	0.434980086	TOMM20L	4.06E-05	-0.443133094	EXTL2	3.70E-09	0.338568695
lnc-WDR63-1	1.40506E-14	0.355769477	DDX5	4.23E-05	0.469147825	LKAAEAR1	4.47E-09	0.410837756
CEP131	1.40506E-14	0.522638595	lnc-SMARCC2-5	4.34E-05	-0.349836072	UPF2	4.47E-09	0.414054249
TGFB1I1	1.51411E-14	0.483014946	XLOC_l2_015938	4.44E-05	-0.421293203	NTN1	5.10E-09	0.421034585
ELMO3	1.56283E-14	0.481471856	lnc-C2orf69-3	4.76E-05	-1.121895475	SAFB	5.93E-09	0.511601421
SLC12A9	1.70993E-14	0.363431127	HOXA10	4.76E-05	-0.398384666	SMIM4	6.25E-09	0.408805445
HEXIM2	1.76272E-14	0.479990971	lnc-RAD1-2	4.90E-05	-0.516310873	SPATC1L	6.36E-09	0.477560284
FBF1	2.09699E-14	0.423736887	PCSK1N	4.95E-05	-0.535873594	GOLGA8EP	6.95E-09	0.422619082
TBCD	2.21002E-14	0.757950728	lnc-APPL2-1	5.05E-05	-1.084072164	RCC2	7.00E-09	0.344136264
BIK	2.64274E-14	0.452168727	EPB42	5.13E-05	-1.490219612	MPHOSPH8	7.49E-09	0.47397294
MOP-1	2.6619E-14	0.348779408	CMSS1	5.13E-05	0.904406132	UPF3B	8.04E-09	0.858285951
WWC3	2.67827E-14	0.486578549	PLK2	5.13E-05	0.615208956	DDX3X	8.72E-09	0.46945563

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lnc-HIST2H2AA3-1	2.73009E-14	0.522572005	CEP135	5.41E-05	0.399709318	HIF1A	9.04E-09	0.526409148
MALAT1	2.82589E-14	0.879559925	SNORA44	5.44E-05	-0.459948866	DHX29	9.22E-09	0.461212746
lnc-GDF5-1	3.13078E-14	0.364211602	VSIG10	5.66E-05	-0.873059945	TCF12	9.76E-09	0.386154477
STX10	3.13078E-14	0.378165487	BRD8	5.98E-05	0.348793361	lnc-USP47-2	1.01E-08	0.381254696
HIST1H3J	3.30594E-14	-	MYCNOS	6.18E-05	-0.373372681	TMEM131	1.04E-08	0.373927686
KNOP1	3.30594E-14	0.384115085	SNORD87	6.58E-05	-0.702366592	FBXO34	1.04E-08	0.456064034
ISY1	3.89265E-14	-	PTCD3	6.81E-05	0.404508857	MTUS1	1.10E-08	0.367922498
lnc-VPS4A-1	5.29767E-14	-	lnc-NAV1-3	7.36E-05	-0.370743619	ARL13B	1.12E-08	0.674006254
AMDHD2	5.41394E-14	0.389486053	GOLGA1	7.73E-05	0.337419056	VGLL3	1.15E-08	-
TRERF1	5.52551E-14	0.342366549	SNORD46	7.97E-05	-0.571724254	ABHD3	1.19E-08	0.419671061
LY6G5B	5.66541E-14	0.341030819	DLEC1	8.47E-05	0.399228916	RFPL3S	1.31E-08	0.566460845
CENPJ	5.89324E-14	0.661135698	SNORD16	8.63E-05	-0.468768444	GCAT	1.51E-08	0.631884052
TMEM95	6.33775E-14	-	TMEM26-AS1	8.67E-05	-1.397098576	TSPYL5	1.63E-08	-
RBM45	6.46997E-14	0.504715718	SNORD95	8.72E-05	-0.549106605	CWF19L1	1.67E-08	0.344956946
CPSF1	6.55552E-14	0.339245803	SNORD6	9.17E-05	-0.702415818	MTRR	1.67E-08	0.440949822
PICK1	7.30529E-14	0.429132963	PRMT9	9.22E-05	0.877213265	SHISA5	1.89E-08	0.501476107
LZTR1	7.30529E-14	0.419531935	lnc-PCDH12-1	9.41E-05	-0.583450112	LOC102724758	1.96E-08	-
JMJD7-PLA2G4B	7.362E-14	0.479942647	EFEMP2	9.58E-05	0.408488889	ZFP36	1.96E-08	0.409108145
ARHGAP4	7.85824E-14	0.736913328	BTBD11	9.64E-05	0.796286277	BHLHE23	2.03E-08	0.604350669
SUGP2	8.37127E-14	0.519982485	GOLGA8J	9.67E-05	0.394137791	SCD	2.03E-08	-
GAK	8.70523E-14	0.471507524	SNORD12C	9.76E-05	-0.594096103	SNORA12	2.24E-08	0.481005928
OSBPL7	8.74516E-14	0.400477117	APOE	0.000101378	0.427166033	LOC102724362	2.33E-08	-
LOC100131289	8.88829E-14	0.87750279	CXorf65	0.000103145	0.655575944	lnc-FBLN2-1	2.33E-08	0.442498115
COMMD3	9.02716E-14	0.381891027	SNORA74A	0.000111136	-0.559825687	MATR3	2.39E-08	-
ADCY7	9.22339E-14	0.353872674	SMCR2	0.000111231	-0.435901055	ALG1	2.42E-08	0.513644634
APPL2	9.76255E-14	0.684975614	SNORD24	0.000114679	-0.37917238	ZNF512	2.53E-08	0.481392806
NPLOC4	1.08659E-13	0.384300417	NXF1	0.000115232	0.538690773	PRSS36	2.54E-08	-
CACNA1C	1.14834E-13	-	LINC00884	0.00011628	-0.395718166	HNRNPH1	2.60E-08	0.368030339
RGL2	1.26049E-13	0.460578469	ADAM1A	0.000117553	0.400055954	WBP11	2.73E-08	0.353755202
PLCB2	1.26661E-13	0.677735119	PYY2	0.000120477	-0.383952769	TOP2B	2.73E-08	-1.43666945
TEP1	1.66448E-13	0.679707427	SNORD58A	0.000121286	-0.541594505	MIA3	2.76E-08	0.767478903
TRIM31-AS1	1.77642E-13	-	QSOX2	0.000121953	0.338819265	ARID4B	2.76E-08	0.529862223
KAT2A	1.77642E-13	0.350787151	CARD8-AS1	0.00012552	-0.439268461	SESN1	2.83E-08	0.568146385
MYO19	1.82477E-13	0.745051295	LOC113230	0.000136314	-0.336819135	ZC3HAV1L	2.85E-08	-
ZNF793	1.82477E-13	0.379406777	TAPT1	0.000138233	0.408558138	RELB	2.92E-08	0.439912532
PCNT	1.86978E-13	0.608778714	TARDBP	0.000138858	0.425224834	DOPEY1	3.00E-08	0.910810906
TRMT1	1.87967E-13	0.443840428	SNORA5C	0.000142005	-0.402036785	FBXW9	3.21E-08	0.331108148
SIGLEC10	1.953E-13	0.505135588	LINC00565	0.000144215	0.452239499	BAZ1B	3.31E-08	0.349172737
PHKA2	2.26127E-13	0.38454887	NBPF14	0.000147107	0.516569242	lnc-CAPSL-1	3.40E-08	0.399329264
lnc-PDCD11-2	2.26548E-13	-	RNF222	0.000150256	-0.421936202	CEP162	3.40E-08	0.34477109
ANKRD11	2.26548E-13	0.393755444	SNORD32B	0.000171169	-0.388465564	MSANTD2	3.53E-08	0.402970268
HIST1H2BE	2.72034E-13	0.562446701	SNORD29	0.000171248	-0.54831198	FAM214A	3.56E-08	0.385088861
		0.429447734						0.663959451

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RELL2	2.78409E-13	0.636043448	LOC101927675	0.000184921	-1.376404488	C11orf21	3.59E-08	-
RBFOX3	2.85437E-13	-	CCDC177	0.000191557	-0.426802774	C15orf59	3.63E-08	-
CCDC154	2.86692E-13	0.861324238	ZNF558	0.000199674	0.345961028	LOC101929687	3.78E-08	0.383322048
VPS45	2.95135E-13	0.337669823	CDKN2C	0.000205293	0.53828161	RAP2C	3.92E-08	0.544562112
Inc-GLIPR1-3	3.17489E-13	-	NPIP15	0.000214293	0.624107931	LOC100506472	3.94E-08	0.356687851
LLGL2	3.31288E-13	0.440216035	CCDC88B	0.000218776	0.511001826	TIMM44	4.06E-08	0.41641466
Inc-ZAP70-2	3.31628E-13	-	PRR25	0.000244814	-0.358503629	CTRL	4.12E-08	0.478713562
Inc-CLDN6-2	3.54299E-13	0.384688116	Inc-RPL7L1-1	0.000247761	0.523561014	RB1CC1	4.12E-08	0.371565542
Inc-FPGS-1	3.65786E-13	0.485848505	RINT1	0.000253481	0.560560688	RBM5	4.15E-08	0.385156723
PACS2	3.7184E-13	0.352215117	HCN2	0.00025771	-0.53301431	LOC101927055	4.17E-08	0.594610606
SNORD8	3.78704E-13	0.416477602	TMEM184C	0.000268153	0.446207297	ZNRF2P1	4.24E-08	0.438911238
RTEL1	4.00168E-13	-	LOC100132874	0.000268437	-0.39715209	IRS2	4.56E-08	-
Inc-SLC9A1-1	4.1028E-13	0.462316581	ADAMTS10	0.000283199	0.535782403	GLCCI1	4.86E-08	0.344589535
DDX17	4.10385E-13	0.437491153	PRR7	0.000293145	0.818819352	FRMPD3	4.98E-08	0.562443693
ZMIZ2	4.16137E-13	0.496454622	ALKBH3-AS1	0.000299771	-0.848922263	Inc-ZBTB25-1	4.98E-08	-
LINC00967	4.43046E-13	-	CYGB	0.000301466	-0.430623333	TRMT61B	4.98E-08	0.375600208
CAMK2G	4.43046E-13	0.411251641	FAM209A	0.000329083	0.475476064	PHF3	5.07E-08	0.434343632
RBM44	4.4698E-13	0.333026343	ANKRD13D	0.000337928	0.454414116	RSRC2	5.45E-08	0.484182006
LOC100147773	4.47811E-13	0.34904139	Inc-METAP1-2	0.000345439	-0.403859459	POLR2A	5.45E-08	0.611914747
SNORA36B	4.55125E-13	-	SNORD10	0.000348511	-0.388694879	EIF4A2	5.55E-08	0.900705065
CDK5RAP3	4.55125E-13	0.462010269	SNORA11C	0.000362299	-0.487947042	CSPP1	5.77E-08	0.609247967
SETD1A	4.83439E-13	0.409149659	Inc-C1orf222-2	0.000384261	-0.356850949	CHD1	5.77E-08	0.555E-08
PRO0628	5.08642E-13	0.352456409	Inc-IBKE-1	0.000388745	-0.679351712	C6orf222	5.85E-08	0.680796448
C5orf45	5.34164E-13	0.462010269	NKTR	0.000395841	0.452825877	CYP17A1-AS1	6.06E-08	0.36946651
BMS1P17	5.40991E-13	0.783261063	SNORA81	0.000399049	-0.689498965	GMCL1	6.30E-08	0.744556531
DNMT1	5.55256E-13	0.482557617	MIEF1	0.000425896	-0.411640097	Inc-PPP1R12B-1	6.70E-08	0.631673114
SIGIRR	5.63202E-13	0.390631511	SNORD22	0.000428726	-0.452356525	Inc-SULF1-3	6.94E-08	0.411368828
TELO2	5.95123E-13	0.480774401	LINC01563	0.00043275	-0.36309988	SH3PXD2A	7.09E-08	0.334489005
LOC100128563	6.24696E-13	0.505616314	MEGF6	0.000433064	0.468243748	MT3	7.12E-08	-
ZAP70	6.63011E-13	0.39091943	SNORD61	0.00043821	-0.38019391	Inc-FKBP3-3	7.42E-08	0.351497357
PSMD6-AS2	6.86422E-13	0.604171496	NPIP15	0.00043844	0.635574376	PRPF39	8.51E-08	-
ADO	7.45729E-13	0.490984578	DPEP3	0.000442646	-0.349380569	SLU7	8.53E-08	0.498525095
NPFF	7.59219E-13	-	MGEA5	0.000447794	0.340424727	HLX-AS1	8.87E-08	0.766666948
RHOT2	7.71857E-13	0.338573096	RAPH1	0.00044866	-0.850434462	USP3	8.97E-08	0.400861512
FAM13A-AS1	7.71857E-13	0.67467225	SNORD30	0.000464045	-0.522416227	PDXDC1	8.98E-08	-
LOC102724231	7.73492E-13	0.638398762	PAQR6	0.000467565	0.380707784	BCLAF1	8.98E-08	0.568289568
LOC100507156	7.87074E-13	0.72293308	MRPL50	0.000468765	0.346881763	ZC3H15	8.98E-08	0.444875094
PIWIL4	7.95076E-13	-	EPM2AIP1	0.000473586	0.33440699	TMTC2	9.09E-08	0.333325798
DENND4B	8.08446E-13	0.503938402	EN2	0.000482052	-0.486565258	NSRP1	9.21E-08	0.409931967
AMY1C	8.08446E-13	0.390663794	SRSF5	0.000495896	0.375801318	FYN	9.55E-08	0.406633283
RFC4	8.86706E-13	0.351463711	Inc-CCDC102B-8	0.00051337	-1.262502168	GIGYF1	9.77E-08	0.357065239
TAZ	9.19102E-13	0.719284205	MVK	0.000532556	0.655313005	EXOC1	9.78E-08	0.471211299
		0.374947198						0.519038312
		0.390004134						0.425080587
								0.363735151

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LOC101928668	9.44767E-13	-	HACL1	0.000538138	0.473280572	SPDYE5	9.88E-08	0.53883878
METTL3	9.55512E-13	0.330847724	LOC101928399	0.000542538	0.353239834	ATAD2B	9.94E-08	0.438448824
HDAC1	9.57317E-13	0.364393616	SNORA68	0.000550608	-0.5412976	RBM25	1.04E-07	0.424812434
EEF2K	9.64129E-13	0.335578252	CEP192	0.000561338	0.431996053	SREK1	1.08E-07	0.424702261
MAN2A2	1.01022E-12	0.342051286	ESAM	0.000565445	0.340855098	SNORA11D	1.08E-07	-
EA2F	1.03982E-12	-	ABCA5	0.000567907	0.389081652	FIP1L1	1.08E-07	0.355232555
SAP25	1.09483E-12	0.349434667	Inc-HMBOX1-1	0.000577533	0.355869307	ACOX1	1.10E-07	-
WDR90	1.15931E-12	1.04375558	SERF1A	0.000590056	0.511761411	SAFB2	1.13E-07	0.360325755
POP5	1.16858E-12	0.437519472	SNORA38B	0.00059398	-0.510376718	TBRG1	1.25E-07	0.607903347
PPOX	1.29472E-12	0.470256852	KRTAP1-3	0.000597308	-0.888086368	DTNB	1.25E-07	0.445511323
KBTBD13	1.36249E-12	0.670376092	Inc-SDIM1-1	0.000619129	-1.013266703	GOLGA6L6	1.29E-07	-0.35344446
C9orf142	1.36249E-12	0.336312064	HAPLN2	0.000628996	-0.383018568	RGPD6	1.31E-07	1.267337678
SNORA70	1.37517E-12	0.439255225	LOC102724406	0.000638036	-0.882450977	TBC1D3P1-DHX40P1	1.39E-07	0.495487928
LIG1	1.37748E-12	0.611977304	LINC00342	0.000647278	0.393773516	DPH7	1.43E-07	0.388010292
ANKZF1	1.41027E-12	0.552249333	SNORD94	0.000665308	-0.391374238	INSR	1.46E-07	0.431828023
SNORA70G	1.51785E-12	0.415385274	SNORD62A	0.000684531	-0.455875654	LINC01146	1.49E-07	0.49431967
ADHFE1	1.54497E-12	0.566046352	YAF2	0.000694082	0.403677099	DDB2	1.49E-07	-
IRF3	1.5815E-12	0.366981379	Inc-EBF3-6	0.000731987	0.466627168	DUSP8	1.49E-07	0.366478303
ULK3	1.5815E-12	0.383166588	SFI1	0.000752911	0.520397601	AIMP1	1.50E-07	0.383851847
CCNL2	1.62453E-12	0.411494623	SSTR3	0.000755095	-0.338814109	PIM3	1.52E-07	0.378964164
FASTK	1.62453E-12	0.530495057	FAM169A	0.000772464	0.341490886	WDR26	1.53E-07	0.395620392
Inc-DCTD-1	1.74178E-12	0.485964019	SNORD52	0.000790455	-0.446786939	LRP2	1.54E-07	0.661203388
PNMA5	1.90188E-12	0.421133385	Inc-CTBP1-1	0.000819821	-0.593523488	DIRC1	1.55E-07	0.340374501
ZNF789	1.96805E-12	0.446376021	CBLN3	0.000833792	-0.446786939	TMPO	1.55E-07	-
PRSS53	1.96887E-12	0.340214037	CCDC146	0.000838765	0.497050605	C3AR1	1.59E-07	1.201375836
PPP1R35	2.18691E-12	0.57697172	GOLGA8A	0.000854976	0.335294632	ZCCHC8	1.68E-07	0.336021586
IKBKB	2.46128E-12	0.439223554	C4orf32	0.000867345	0.804022051	F11-AS1	1.75E-07	-
Inc-UCK1-1	2.6646E-12	0.384622662	CHIC2	0.000876142	0.610995115	HECA	1.85E-07	1.028259817
LHX4-AS1	2.78959E-12	0.420317773	CCDC102A	0.000876573	0.654387626	Inc-CTTN-3	2.00E-07	0.682349072
XLOC_I2_015849	2.83778E-12	0.348453256	ZSWIM8-AS1	0.00087671	0.429352489	TMEM97	2.09E-07	-
SNX14	2.92074E-12	0.964818612	FAM229A	0.00087671	0.429352489	PRPF38B	2.15E-07	0.400153333
HECTD1	3.13562E-12	0.385491592	SNORD37	0.000879837	-0.430169567	CGGBP1	2.20E-07	0.602988135
WDR45B	3.157E-12	0.371662061	HSPG2	0.000885987	-0.355576558	SRSF4	2.20E-07	0.357116122
WDR59	3.19634E-12	0.402223596	RNU2-1	0.000948557	0.421559335	RANBP2	2.20E-07	0.409483308
Inc-PLEKHH2-1	3.74968E-12	0.345896487	DYTN	0.000949238	-0.551130603	TCP10L	2.21E-07	0.409131118
XLOC_I2_006025	4.05601E-12	0.562085815	SNORD105	0.00095396	-0.361651378	SCAF1	2.22E-07	0.452043085
SNORA53	4.23137E-12	-	NMRK1	0.000984519	-0.421797897	LOC100505938	2.30E-07	-
SNORA70F	4.55498E-12	0.382288595	SDR39U1	0.000995376	0.375315195	PRH2	2.30E-07	0.700967698
Inc-ZNF131-2	4.65456E-12	0.516373357	SNORD83B	0.001047885	0.34376877	MITD1	2.33E-07	0.429811924
EXOC7	4.67566E-12	0.438388255	UCP3	0.001049945	-0.448350776	UBXN10-AS1	2.36E-07	0.610046915
AVP	4.67566E-12	0.387034742	GNG8	0.001070132	-0.343496182	GOLT1B	2.38E-07	-
ZNF513	4.74342E-12	0.366717224	Inc-TPBG-2	0.001075689	0.371370152	ATAD2	2.38E-07	0.381046234
EME2	4.74342E-12	-0.48362384	CCDC150	0.001078528	-0.848501259	ZNF90	2.50E-07	0.335378118
NEAT1	4.74596E-12	0.399068945	TEF	0.001099783	-0.734254385	KLF5	2.55E-07	0.341861947
	5.39969E-12	0.380302966		0.001108674	-0.876529448			-
		0.95641338						0.577074562
								0.557099862

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HNF4A-AS1	5.68912E-12	- 0.476548578	PIDD1	0.001119874	0.407323149	RBM39	2.56E-07	0.596936673
ABLIM3	5.98099E-12	- 0.647293088	RAD18	0.00114814	0.458980255	TCERG1	2.63E-07	0.398282969
HGS	6.86647E-12	0.476988229	SNORD90	0.00117454	-0.40268819	LOC646513	2.81E-07	- 0.402246635
MZF1	6.93464E-12	0.453140349	CROCCP2	0.001174899	0.654565802	TCHP	2.86E-07	0.37724453
AMT	7.70802E-12	0.585477636	ZBTB1	0.001175085	0.478074717	CCAR1	2.95E-07	0.562046448
ENO3	7.8308E-12	0.539281619	PRKAB2	0.001175698	0.342556939	ZNF451	3.11E-07	0.531168579
NOD1	8.18164E-12	0.331886749	lnc-ANKRD53-1	0.001182753	-0.386526818	SRP54	3.17E-07	0.422585018
SCRN2	8.18164E-12	0.379492052	SNORD100	0.001245111	-0.482828066	HHEX	3.18E-07	0.50979167
ZNF512B	9.52099E-12	0.517830313	SNAPC4	0.001246702	0.330340746	FAM209B	3.20E-07	0.478673506
NPEPL1	1.01229E-11	0.578471495	GSDMB	0.00136799	0.692738195	PRR36	3.25E-07	-0.47074194
STMN3	1.02965E-11	0.473757067	SIN3B	0.001395239	0.380324824	WDR60	3.25E-07	0.415616081
CHD3	1.0608E-11	0.451977398	FES	0.00142993	-0.345888729	CSPG5	3.50E-07	0.331205687
SLC25A3P1	1.0857E-11	- 0.387368463	RTKN	0.001459057	-0.724074931	CHRNA10	3.65E-07	0.62219609
NP1A1	1.13003E-11	0.499761576	TMEM88	0.001470717	0.365204881	JOSD1	3.66E-07	0.453416436
TAF1C	1.14296E-11	0.769095018	CDRT15L2	0.001481853	-0.928870917	ILKAP	3.66E-07	0.551094705
ATG101	1.21126E-11	- 0.338772792	COL5A2	0.001507037	-0.331961522	KITLG	3.68E-07	- 0.402915317
NME3	1.22062E-11	0.453494424	LOC102724814	0.001522823	0.335290894	MCM7	3.79E-07	0.66316439
BEST4	1.22062E-11	0.493293951	CCNH	0.001576829	0.484885634	SLC7A6	3.84E-07	0.363460061
CARF	1.22062E-11	0.503691128	SNORA11	0.001586591	-0.484197762	CCNT2	3.87E-07	0.451801557
MPPE1	1.23516E-11	0.397862309	FAM193B	0.001589178	0.402205945	CNTRL	3.92E-07	0.43928977
FKBP1B	1.31002E-11	- 0.607416754	SNORA14B	0.001620309	-0.474547948	SEC61A2	3.96E-07	0.370357279
DPP7	1.35155E-11	0.382422409	FHL1	0.001660631	-0.343764573	CYLD	4.01E-07	0.356388577
lnc-TOP1MT-2	1.3581E-11	0.410485933	ARL4D	0.001667536	0.474322736	CEP57	4.16E-07	0.403464379
HS2ST1	1.40064E-11	- 0.336399268	TTL12	0.001672034	-0.349341063	COA6	4.17E-07	- 0.464077736
RSAD1	1.60087E-11	0.388865167	AP1S3	0.00175867	0.350838151	FXD3	4.24E-07	- 0.348629692
ILF3	1.634E-11	0.4295015	LOC101927641	0.001770235	-0.921516074	TRPM7	4.33E-07	0.556481407
ARHGAP12	1.68189E-11	0.421973334	SNORD96A	0.001772321	-0.544392658	TSC22D2	4.35E-07	0.437680879
SNORA70C	1.75191E-11	0.550290411	NEIL1	0.001796273	0.530176867	PEX1	4.41E-07	0.411300524
lnc-C5orf47-2	1.76192E-11	- 0.381811483	LINC01089	0.002039293	0.375280741	UBXN1	4.44E-07	0.376668202
POLI	1.77252E-11	0.537750803	XLOC_l2_009464	0.002043866	0.424809509	C19orf70	4.49E-07	- 0.347885154
XK	1.79245E-11	- 0.667425414	SNORD57	0.002057386	-0.480983815	MBTD1	4.49E-07	0.43761283
PKD1	2.0467E-11	0.348004676	CDKN2AIP	0.0021398	0.406375114	MLLT10	4.50E-07	0.367867249
CACNA2D4	2.16154E-11	0.369781851	NBPF11	0.002149126	0.330360425	SLC30A7	4.74E-07	0.535865057
SEMA4D	2.16154E-11	0.398614979	lnc-SMAD6-1	0.002157582	-0.728195996	SMPD4	4.74E-07	0.598867411
POMT1	2.16154E-11	0.541095548	SNHG5	0.002200178	0.530472683	FAAH2	4.74E-07	0.819427362
SAPCD1	2.16726E-11	0.345003338	LOC729506	0.002234565	-0.603798277	PPA1	4.84E-07	- 0.507475416
DOCK11	2.17823E-11	0.349822742	LUC7L3	0.002339211	0.396029285	CIR1	4.88E-07	0.56468527
POMGNT1	2.30204E-11	0.363156678	ABCA7	0.002374651	0.420282838	WHSC1L1	5.10E-07	0.331249076
CAPS	2.36126E-11	0.390229505	MIR146A	0.002442514	0.561968868	ASCC2	5.17E-07	0.374826414
ZNF75D	2.36663E-11	0.359406851	PILRB	0.002477816	0.501218126	SRSF10	5.26E-07	0.402323912
IFT172	2.40213E-11	0.372568282	CIRBP	0.002626901	0.482510535	INTS12	5.37E-07	0.366229025
FAM57B	2.44413E-11	- 0.395900472	SNORD96B	0.002637859	-0.434315788	RFC1	5.37E-07	0.397553566
KRTAP12-2	2.47727E-11	0.353950818	lnc-PPP1R14D-1	0.002702416	-0.831579584	DNAJC2	5.38E-07	0.727189703
ADCK5	2.57801E-11	0.459345553	YWHAH	0.002707821	0.356260704	UBC	5.52E-07	0.412643777
RASA3	2.67283E-11	0.508545764	SLC25A34	0.002969429	0.331554567	FUS	5.52E-07	0.427456139
FUK	2.77145E-11	0.49937532	lnc-ASMT-5	0.003053991	0.359153223	MIS18BP1	5.53E-07	0.468232645
SCRIB	2.78113E-11	0.47037275	LOC255177	0.003242851	-0.424620992	METAP2	5.57E-07	0.368949694

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CDK10	2.83421E-11	0.473661978	DOK4	0.003251411	0.53047379	KMT2A	5.57E-07	0.429459677
C17orf62	2.97616E-11	0.397748286	SNORA37	0.003340868	-0.441660363	CHRNA6	5.57E-07	0.844967221
SNORA25	3.07946E-11	-	Inc-ATP1B3-2	0.00356842	-0.92236797	TERF2	5.85E-07	0.360508853
		0.497838706						
PQLC1	3.07946E-11	-	SNORD83A	0.003571586	-0.348815959	LOC400863	5.97E-07	-0.41052905
KIFC2	3.10531E-11	0.354603735	UCN	0.003576897	0.400510306	AKAP8L	5.97E-07	0.512369239
BTBD6	3.21885E-11	0.561640557	SNORA72	0.00364745	-0.359582135	OR2H1	6.08E-07	-
SH2B1	3.23661E-11	0.382764677	SNORD32A	0.004078232	-0.34957833	NUPL1	6.16E-07	0.450862619
		0.497750574						0.454081033
Inc-EEF1B2-3	3.35939E-11	-	HBB	0.004329517	-0.692555741	IGHMBP2	6.22E-07	0.412631528
		0.375476065						
SLC2A4RG	3.42424E-11	0.469201619	SNORA45B	0.004390032	-0.563213738	CD3E	6.26E-07	-
								0.477766029
RNASEH2C	3.42515E-11	0.608499158	FRMD3	0.004470649	0.357593693	MIF-AS1	6.27E-07	-
HERC2P7	3.47001E-11	0.359750401	SNORA27	0.004553027	-0.414342238	RSF1	6.38E-07	0.5608223
		0.441241781						
PRAC2	3.50057E-11	-	CDKL5	0.004557578	0.34276761	TNFAIP3	6.41E-07	0.726674193
		0.385355792						
Inc-PHF2-1	3.50276E-11	0.344425443	AK1	0.004656388	0.35613431	ICE1	6.47E-07	0.371999333
		0.344425443						
SNORD97	3.68463E-11	-	SNORD15B	0.004701444	-0.334520301	SMN1	6.54E-07	0.76159289
		0.684959623						
CRIPAK	3.6849E-11	0.433677723	DENND4A	0.005328837	0.393802063	LOC100506499	6.69E-07	-
								0.343791534
XYLT2	3.85625E-11	0.35436703	MTRNR2L7	0.005344686	-0.490100936	SEN2	6.69E-07	0.378683785
POLG2	4.03991E-11	0.35436703	INPP5E	0.00571454	0.355676868	DDX55	6.72E-07	0.363440876
BCS1L	4.11226E-11	0.562664466	SNORA63	0.005753629	-0.403861719	CORO7	6.97E-07	0.470863121
		0.404782863						
DVL1	4.18522E-11	0.404782863	STX17-AS1	0.006110694	0.476847913	MYRF	7.59E-07	-
		0.365452517						0.437987084
HIST1H2BF	4.24109E-11	-	C17orf107	0.006135922	0.374703363	IK	7.75E-07	0.493679042
		0.610729282						
SNORD35A	4.67207E-11	-	ZDBF2	0.006170759	0.493614466	CEBPD	7.87E-07	-
		0.595887303						0.569429172
ENTHD2	4.69781E-11	0.659679039	ZNF157	0.006255874	-0.574706144	DDX27	7.87E-07	0.554285647
		0.659679039						
ZZEF1	4.77504E-11	0.413206828	SLC35F3	0.006362664	-0.521307449	SNX29	7.87E-07	-
								0.424115849
APBA2	4.94784E-11	0.412177399	PPP1R16A	0.006669304	0.354383542	ATF4	7.87E-07	0.602608066
LOC101926967	5.13947E-11	0.610555918	Inc-EPHA6-1	0.007435312	-0.365130184	ELF1	8.17E-07	0.425291305
		0.610555918						
GATAD1	5.17321E-11	0.3750368	SNORD116-19	0.007494659	-0.406788739	CXCR4	8.53E-07	0.502457409
LOC283911	5.17886E-11	0.371169798	SNORD105B	0.007584943	-0.437747802	BTG2	8.57E-07	0.442851636
		0.371169798						
RASAL3	5.49305E-11	0.397916195	HLA-DRB6	0.0079026	-0.615826769	CLUH	8.59E-07	-
		0.397916195						1.051455558
SNORA49	5.82008E-11	-	CPT1B	0.008013995	0.441653985	RNA5-8S5	8.61E-07	-
		0.485503995						0.761100473
C19orf26	5.82345E-11	-	SNORD15A	0.008093162	-0.346666645	TTC9C	8.64E-07	0.402905314
		0.355637257						
RAB4B	5.87175E-11	0.394370885	ATXN3L	0.008100616	-0.404710212	TRIM47	8.96E-07	-
		0.394370885						0.404762284
TPCN1	6.14401E-11	0.396251453	SNORA15	0.008261046	-0.362924922	PHF21A	9.05E-07	0.339507693
KLHDC4	6.40127E-11	0.476251967	NXT1	0.009450992	0.374620985	ZC3H7A	9.12E-07	0.599030706
LOC399715	8.21411E-11	0.381275899	HBG1	0.009459045	0.997200694	JUN	9.41E-07	1.072094632
		0.381275899						
NT5C	8.21411E-11	0.488275662	SNORD1B	0.009867968	-0.50780522	ZNF467	9.72E-07	-
		0.488275662						0.414238758
ACADVL	8.97842E-11	0.682974373	MSN	0.009883095	-0.3363346	PTBP2	9.84E-07	0.653539147
MBD6	9.18324E-11	0.338501272	GJB2	0.010554851	0.652734274	BRD1	9.94E-07	0.505815896
CAPRIN2	9.50391E-11	0.413888603	CTSK	0.010877177	0.429016556	LRR37B	1.00E-06	0.342132072
RASA4	9.68515E-11	0.578955887	PF4V1	0.011017403	0.718985993	CEP295	1.02E-06	0.508955124
Inc-AK1-1	1.00835E-10	0.691863655	LOC102724479	0.01135185	0.418518297	LOC100996583	1.04E-06	0.633921645
		0.691863655						
MST1	1.03488E-10	0.346835426	BZRAP1	0.011825938	0.401603051	CCSER2	1.04E-06	0.382316965
CCDC57	1.10798E-10	0.332860557	ITIH4	0.012644139	0.396032516	KIF2C	1.04E-06	0.431848357
		0.332860557						
PAN2	1.12E-10	0.564486989	UBAP1L	0.012932871	0.341954175	MORC3	1.05E-06	0.384927276
		0.564486989						
GNPTG	1.12878E-10	0.416512677	HERC2P2	0.01395273	0.357083232	YTHDC2	1.09E-06	0.479404661
		0.416512677						

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POMT2	1.12906E-10	0.394826355	SNORD89	0.014162981	-0.395802184	BCL3	1.10E-06	0.817149582
MAP3K10	1.15902E-10	0.352461342	SNORD55	0.014468545	-0.381965851	RGPD5	1.11E-06	0.623125917
RAB24	1.17834E-10	0.449750613	BATF	0.016596962	0.467881646	LOC100507316	1.13E-06	-
TMC8	1.29484E-10	0.351731191	CHTF18	0.0181018	0.372653648			0.384227178
AGAP5	1.37411E-10	0.444535925	ATG16L2	0.018202683	0.429848939	lnc-SLC15A1-1	1.14E-06	-
ERVMER34-1	1.56536E-10	-	JUP	0.018624275	0.472111736	VAV1	1.14E-06	0.587596909
ACYP1	1.56536E-10	0.350971563	TUBGCP6	0.019548232	0.346496973	PSAT1	1.15E-06	0.681627515
HCG8	1.56536E-10	0.35623185	lnc-WDR1-1	0.019939993	0.350929005	UAP1	1.17E-06	-
BAIAP2L2	1.58395E-10	0.607198656	BRICD5	0.022390815	0.338427862	HSPBAP1	1.18E-06	0.584857765
PVRL3	1.64927E-10	0.431812292	HIST1H4B	0.025305958	0.411915028	POLB	1.20E-06	0.390825811
XLOC_I2_015762	1.64927E-10	0.356144796	lnc-TMEM63A-1	0.025761948	0.346396169	SLC27A5	1.20E-06	0.399574564
NRBP2	1.72212E-10	0.345385801	SCARNA11	0.026016252	-0.49389842	REV1	1.23E-06	0.537960901
LOC642852	1.75409E-10	0.405462441	SNORA34	0.027453379	-0.359180575	MAGOH	1.26E-06	0.421338344
lnc-NUDT11-2	1.8206E-10	0.407097322	PDXDC2P	0.029799948	0.368094958	SLC9A8	1.27E-06	0.379786636
RASL11A	1.8265E-10	-	MTFP1	0.029799948	0.368094958	TYMP	1.32E-06	0.443621071
HIST1H2BH	1.8265E-10	0.401943693	HPSE	0.029838167	0.372652855	YY1AP1	1.32E-06	0.352494529
lnc-SRBD1-1	1.8265E-10	0.397380755	SNORD67	0.029838167	0.372652855	CTAGE10P	1.32E-06	-
SNORA70E	1.96867E-10	0.477730563	GAA	0.029982224	-0.621504397	NFKB1	1.33E-06	0.527517247
MIIP	2.03063E-10	0.51357123	DIXDC1	0.03171585	-0.34112641	HIVEP1	1.37E-06	0.345098789
SNORD47	2.1421E-10	0.525875798	KLHL17	0.035189135	-0.330033216	CLPX	1.37E-06	0.626379267
SNORA40	2.18073E-10	0.341766214	SNORA80B	0.035624335	0.348414175	ARHGAP9	1.37E-06	0.7137785
LGALS12	2.23563E-10	0.470259791	CA2	0.037144437	-0.383453674	FAM126B	1.39E-06	0.335629635
ITGAL	2.29642E-10	0.400012909	SNORA21	0.037615102	0.454360666	WDR48	1.43E-06	0.628439979
MEFV	2.35622E-10	0.546646907	LOC339192	0.038576043	-0.367024366	MC1R	1.46E-06	0.363511313
PIF1	2.37081E-10	0.49819775	SNORD68	0.040229129	0.413704572	ZW10	1.47E-06	0.521705104
EML4	2.38701E-10	0.381431816	TRH	0.040763885	-0.419325579	NFKBIB	1.48E-06	0.357659501
GPCPD1	2.53782E-10	0.508353593	ADARB2	0.040862735	-0.334570348	DOCK10	1.50E-06	0.350126574
lnc-RCSD1-1	2.66118E-10	0.351524647	RHPN1	0.04259192	-0.597039831	CCDC93	1.50E-06	0.519187613
TBC1D3P5	2.68162E-10	0.364176109		0.04923477	0.331440769	ZNF211	1.59E-06	0.447447849
ITGA10	2.76907E-10	0.510019803				ATAD3A	1.60E-06	0.335629342
RALGDS	2.78208E-10	0.468196074				RUFY4	1.61E-06	0.560029342
SNORD48	2.79688E-10	0.477531086				DFNB31	1.61E-06	0.379120368
lnc-PITPNC1-1	2.81059E-10	0.336639093				CWF19L2	1.62E-06	0.385851901
CHKB	2.85511E-10	0.628522369				OVGP1	1.64E-06	-
SNORA70D	2.89729E-10	0.442231441				ZEB2-AS1	1.64E-06	0.777319025
HCN3	2.91187E-10	0.56915183				TRMT12	1.77E-06	0.433639959
PILRA	3.12264E-10	0.472907491				KTN1	1.78E-06	0.498177746
LOC102723564	3.16727E-10	0.4181978				SCML1	1.78E-06	0.553329158
MMD	3.16727E-10	0.705596512				ADH5	1.79E-06	-
TSEN2	3.23134E-10	0.413415402				FLJ10038	1.79E-06	0.353137631
SPX	3.47297E-10	-				lnc-MFSD6-1	1.85E-06	0.483337484
AGAP9	3.47297E-10	0.852775605				DDX39A	1.91E-06	0.39250508
SGSM2	3.59357E-10	0.366957008				CXorf57	1.94E-06	0.501591428
STX16	3.76366E-10	0.433302873				DDX3Y	1.96E-06	0.579114342
	3.84597E-10	0.374350405				PGAM4	1.99E-06	0.43666702
	3.84597E-10	0.488601626					2.02E-06	-0.40358637
	3.85979E-10	0.398632776						

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lnc-N4BP2-1	3.95008E-10	0.415424586
TMEM42	4.02402E-10	0.424536701
SNHG18	4.07479E-10	-
IL10RA	4.16145E-10	0.383114247
lnc-HLCS-1	4.16254E-10	0.388746343
PIK3IP1-AS1	4.16254E-10	-
ARHGAP27	4.36423E-10	0.397983937
BMF	4.62534E-10	0.408421619
HIST1H2BM	4.63289E-10	0.403113398
HIST1H3H	4.81521E-10	0.338450133
GS1-24F4.2	4.82565E-10	-
TBCE	4.85469E-10	0.360861019
LRPAP1	4.86017E-10	-
lnc-CENPV-2	4.86432E-10	0.545767087
PFKP	4.86432E-10	-0.40189001
NAGLU	5.22748E-10	0.376010418
lnc-WDR77-1	5.22748E-10	0.44660181
LRRC37A4P	5.49813E-10	-
NADSYN1	5.61069E-10	0.336279721
HIST1H2BC	5.62675E-10	0.394858619
LOC100132057	5.75802E-10	0.394906179
lnc-SLC36A4-1	5.83868E-10	0.352052671
FBXO41	5.85093E-10	0.377910891
EVX1	6.01047E-10	0.418290449
MUS81	6.0632E-10	-
IL11RA	6.38636E-10	0.454976212
CORO6	6.41295E-10	0.48302671
PPP1R3E	6.50355E-10	0.386680313
MICAL1	6.71757E-10	-
PATL2	6.75964E-10	0.385675756
TARBP1	6.92481E-10	0.405295505
COL18A1	7.37937E-10	-
HIST1H4C	7.48574E-10	0.361508466
KIAA0391	7.59344E-10	0.3656038
HSD3B7	8.03179E-10	0.33656038
lnc-GPR27-2	8.31573E-10	0.48302671
AP1G2	9.35394E-10	0.352006173
lnc-LRRC30-1	9.49683E-10	0.335640739
lnc-CCDC69-1	9.72254E-10	0.473074436
KIAA1407	9.77367E-10	0.544797412
SNORA78	1.03183E-09	0.419223501
ITPR3	1.08245E-09	0.4978757289
PPM1M	1.0918E-09	-
	1.12465E-09	0.775167436

NUP98	2.02E-06	0.360593229
VTRNA1-3	2.04E-06	-
SRRT	2.04E-06	0.588550448
NEURL1	2.13E-06	0.387699502
FAM181A	2.22E-06	-
GEM	2.23E-06	1.095731271
C11orf58	2.26E-06	-
LINC00476	2.38E-06	0.410786143
NSUN2	2.39E-06	0.605099728
CASKIN2	2.41E-06	0.374002709
CHERP	2.47E-06	0.345553495
AEBP2	2.47E-06	0.334949579
NOP58	2.47E-06	-
TXNDC16	2.58E-06	-0.63727474
VASN	2.60E-06	0.349802803
SRSF7	2.61E-06	0.368824546
APBA3	2.62E-06	0.727057922
ZSCAN32	2.62E-06	0.430943882
TTC13	2.67E-06	0.526269125
KRTAP4-11	2.71E-06	0.564285712
SARNP	2.72E-06	0.458600103
MAP3K5	2.81E-06	0.416521317
KLHL36	2.82E-06	0.407501962
IER5	2.84E-06	-
FEN1	2.86E-06	0.507196943
TP53BP2	2.87E-06	0.370572251
LOC102724446	2.87E-06	0.38556598
DDX21	2.90E-06	0.368755025
DHX38	2.95E-06	0.687096364
ARHGDIB	2.97E-06	-
GRAMD3	3.10E-06	0.506219668
GOLGA4	3.19E-06	0.409762794
LCE1C	3.24E-06	-
PDHB	3.34E-06	0.743845524
lnc-CCT5-1	3.41E-06	0.468710862
ANKRD36BP2	3.44E-06	0.348991168
GPC3	3.47E-06	0.379529995
SS18	3.47E-06	0.587508353
lnc-MTHFD2L-1	3.49E-06	0.463047846
lnc-AL353597.1-1	3.60E-06	-
KBTBD2	3.66E-06	0.438648675
ZNF827	3.66E-06	-
lnc-AL035696.1-4	3.68E-06	0.364365386

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ACACB	1.1659E-09	0.449673417
lnc-ANKRD11-5	1.18546E-09	0.397908958
C3orf38	1.20175E-09	-
PHF10	1.20964E-09	0.378447965
HIST1H4L	1.28217E-09	0.34061676
SNORD9	1.34461E-09	-
TBC1D10C	1.42344E-09	0.608932879
COMTD1	1.42511E-09	-
ATP10A	1.43687E-09	0.407550821
SPG11	1.48367E-09	0.537818702
TERC	1.557E-09	0.340747368
ATHL1	1.58893E-09	0.55849606
GOLGA6A	1.63765E-09	0.340821523
SCARNA3	1.64067E-09	-
lnc-AL137145.1-3	1.64477E-09	0.418312962
LARP1	1.92219E-09	0.967964407
SNX1	1.99238E-09	0.434602675
GOLGA6L9	2.02999E-09	-
TMTC4	2.37084E-09	0.331497903
C22orf34	2.40976E-09	0.437779263
HIST1H4D	2.48505E-09	0.332858848
LOC100129550	2.55046E-09	0.35619023
OST4	2.58726E-09	0.341293444
RPL28	2.6576E-09	0.457577183
TRAF5	2.68356E-09	0.619101024
SNHG9	2.72576E-09	-
INPP5D	2.80964E-09	0.733830336
RASL10A	2.82379E-09	0.430079239
KCNN4	2.83985E-09	-
HIST1H2AG	2.91782E-09	0.341252902
SEC31B	2.92139E-09	-0.33814471
EIF5	3.00373E-09	0.426420709
SPARC	3.27672E-09	0.546016222
LOC101928989	3.34365E-09	0.402413763
PERP	3.36096E-09	0.330937667
HNRNPU-AS1	3.51468E-09	0.483419846
HTT	3.76658E-09	-
NPIPA2	3.80517E-09	0.438419308
KCNK5	3.87783E-09	0.775797347
IFFO1	3.87783E-09	-
PPM1F	4.02889E-09	0.443688132
PLCXD1	4.28578E-09	0.718294941

XLOC_l2_006812	3.72E-06	0.352967127
CRYZ	3.74E-06	0.545918149
LINC00205	3.74E-06	-
lnc-TMEM206-4	3.75E-06	0.420846073
OSGEP	3.82E-06	-0.49527429
SLC25A26	3.84E-06	0.38411203
HR	3.96E-06	0.372112786
EZH2	4.03E-06	0.443530417
GGH	4.06E-06	0.899214102
CTAGE11P	4.19E-06	-
BTG1	4.34E-06	0.516844125
HMHA1	4.37E-06	0.353462029
SNORA5B	4.49E-06	0.375623339
THAP9-AS1	4.62E-06	0.499402666
C12orf45	4.66E-06	-
ACKR3	4.77E-06	0.390009936
SSB	4.99E-06	-
ABCC1	5.04E-06	0.415194769
SLC22A5	5.20E-06	0.571873998
NAP1L5	5.30E-06	0.361816242
USP36	5.40E-06	0.574883174
CLIC6	5.49E-06	0.430717426
lnc-NDST2-3	5.57E-06	0.410774988
SUPT6H	5.64E-06	0.839124362
LOC102724094	5.76E-06	0.365229734
SNHG12	5.76E-06	0.33442927
ARRDC2	5.86E-06	0.379046051
BAZ1A	6.14E-06	0.346630514
ABRACL	6.23E-06	0.909806132
ZNF335	6.59E-06	0.752149345
FOXO3-AS1	6.80E-06	0.463712317
lnc-HIATL1-1	6.81E-06	-
GNL3	6.85E-06	0.412800445
PGRMC2	6.99E-06	0.503143281
HIPK1	6.99E-06	-
BMP8B	7.06E-06	0.702583751
lnc-RAD23B-5	7.14E-06	-
FURIN	7.17E-06	0.366780509
COA1	7.21E-06	0.513701627
NAF1	7.21E-06	0.387798969
PSMD6	7.29E-06	0.699881215
CHD2	7.32E-06	-

SUPPLEMENTARY MATERIAL

B3GALT1	4.29895E-09	-
APBB3	4.3155E-09	0.396611416
AQP10	4.40915E-09	0.425909524
BEST3	5.21783E-09	-
RPL23AP7	5.56331E-09	0.667510245
PROS1	5.74273E-09	-
HIST1H3G	5.74273E-09	0.386894681
TMEM91	6.05529E-09	0.34511428
RNFT1	6.08212E-09	-
HIST1H2AI	6.13966E-09	0.440444827
ZNF862	6.40608E-09	-
DYNC1H1	6.79098E-09	0.403262211
SLC40A1	6.93918E-09	-
LOC101927372	6.95182E-09	0.521989683
HIST1H2AJ	7.03334E-09	0.363614574
UBA7	7.25326E-09	-
ANKS6	7.71983E-09	0.413613571
PPP2R3B	7.8931E-09	0.463418641
SYS1	7.9479E-09	0.417157062
SCARNA2	7.97125E-09	-
STAT2	8.04518E-09	0.505124927
Inc-GPR15-1	8.36381E-09	0.580454728
Inc-GTPBP1-2	8.50271E-09	-
LOC100270804	8.80765E-09	0.463997668
TMEM175	9.15591E-09	0.348934502
HIST1H2BG	9.2884E-09	0.404499436
AXL	9.38062E-09	0.376422172
ITGB1BP1	9.71302E-09	-0.33032456
Inc-SGSH-1	1.01409E-08	0.408404231
EGFL8	1.01889E-08	0.371938474
HIST1H2AB	1.02661E-08	-
ZNF37A	1.11398E-08	0.434903669
F2RL3	1.13211E-08	0.486489626
LRRIQ3	1.2078E-08	-
PKN3	1.20961E-08	0.332856133
HIST1H3B	1.246E-08	-
PGRMC1	1.3067E-08	0.358730075
MLKL	1.36262E-08	0.351465189

KMT2E	7.34E-06	0.351050343
ZGLP1	7.35E-06	0.405950207
GSE1	7.35E-06	0.479792551
AARS	7.36E-06	-
SFPQ	7.36E-06	0.377653414
PTRHD1	7.69E-06	0.420335967
CLUAP1	7.88E-06	-
KRTAP1-4	7.95E-06	0.388189324
SNORA62	8.07E-06	-
TP53BP1	8.17E-06	0.331881294
FLJ43315	8.28E-06	-
NKAP	8.54E-06	0.653007941
PIK3R5	8.65E-06	-
OSER1	8.65E-06	0.406013498
GGNBP2	8.85E-06	-
SNRPA1	8.85E-06	0.356819601
TAF15	8.98E-06	-
CLK4	8.98E-06	0.435050612
TOX2	9.11E-06	0.542658887
SFTA1P	9.13E-06	-
PRR4	9.13E-06	1.041891818
NME1	9.14E-06	0.467984381
ICAM2	9.17E-06	-
ROM1	9.17E-06	0.43496332
SNORA71A	9.18E-06	-
SNORD59A	9.25E-06	0.563012435
TMEM238	9.35E-06	0.442308833
SNORA13	9.40E-06	-
NFATC1	9.64E-06	0.56067565
PRR14	9.64E-06	0.548029275
SCARNA8	9.73E-06	-
SSR2	9.86E-06	0.815679705
LOC102724481	9.88E-06	0.428730515
NENF	9.94E-06	-
MEX3D	1.01E-05	0.506338232
CBLL1	1.01E-05	-
ITPR1	1.08E-05	0.380186458
COL9A2	1.08E-05	0.417477573

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LOC101928954	1.41063E-08	0.474262389
HCLS1	1.45909E-08	0.353038951
PSTPIP1	1.50528E-08	0.403831955
HOTAIRM1	1.52505E-08	0.47848505
HIST1H3D	1.57647E-08	-
		0.670459818
lnc-SERPINA12-1	1.68665E-08	-
		0.331026682
NPIPA5	1.68665E-08	0.3988226
TMEM259	1.68835E-08	0.45196102
POT1	1.73719E-08	-
		0.342983809
YIPF5	1.77947E-08	-
		0.353017253
HIST1H4E	1.79528E-08	-0.73383964
LOC151174	1.84268E-08	0.533370444
RHOBTB1	1.85328E-08	-
		0.666615872
KIAA1109	1.86595E-08	0.357096663
HIST1H2BO	1.88439E-08	-
		0.424508057
STIM2	1.94657E-08	0.471166383
ATM	1.9933E-08	0.367086103
HIST1H4I	2.05143E-08	-
		0.631985255
PLXDC1	2.20016E-08	0.44375001
EHD3	2.29563E-08	-
		0.358225038
SNORD116-6	2.43355E-08	-
		0.384713471
GGA1	2.43528E-08	0.382070458
lnc-CTNNA2-1	2.44325E-08	-
		0.408857224
HIST4H4	2.73527E-08	-
		0.466498816
LOC101929756	2.86765E-08	-
		0.559444279
SNORD85	2.94361E-08	-
		0.431095281
DAB1	2.95612E-08	-
		0.345952115
LOC101930532	2.986E-08	-
		0.405357664
HIST1H2BJ	3.03388E-08	-
		0.485781531
HIST1H2AK	3.15374E-08	-
		0.504909315
ABCC5	3.15374E-08	0.436672278
LOC101928150	3.19811E-08	0.379971197
HIST1H3F	3.43994E-08	-
		0.633897378
SMOX	3.80457E-08	-
		0.464724268
lnc-C9orf103-1	3.85875E-08	-
		0.342559877
RNF208	3.93218E-08	-
		0.382182859

SCARNA4	1.09E-05	-0.70123426
TRA2A	1.09E-05	0.40595587
TMEM243	1.10E-05	0.503437683
CRTC2	1.11E-05	0.338118497
GABPB2	1.11E-05	0.359043899
SAAL1	1.12E-05	0.418081813
lnc-SLC43A1-1	1.12E-05	-
		0.415844847
XKR9	1.12E-05	-
		0.330254263
LOC151657	1.13E-05	-
		0.331859915
MAP1LC3A	1.14E-05	0.368931323
TTC27	1.16E-05	0.507843907
LETM2	1.17E-05	0.342199217
ARID5A	1.19E-05	0.412965498
lnc-LRGUK-1	1.19E-05	-
		0.396851195
SRFBP1	1.19E-05	0.379581328
FTO	1.21E-05	-
		0.516734541
N4BP2L2	1.21E-05	0.491614647
NOL7	1.23E-05	0.330557077
CISD3	1.26E-05	-
		0.527184419
TJAP1	1.27E-05	0.465514812
MAMSTR	1.28E-05	-0.69035644
LINC00339	1.28E-05	-
		0.540664497
lnc-FAM70A-1	1.29E-05	0.499357489
RPH3AL	1.33E-05	-
		0.531551298
INSL3	1.36E-05	0.48536337
GCGR	1.37E-05	1.198358603
ZNF652	1.40E-05	-
		0.355458226
MPHOSPH10	1.40E-05	0.520788117
EIF4A3	1.41E-05	0.366788956
TRMT11	1.42E-05	0.342308983
TNNC1	1.48E-05	0.40530434
CFL2	1.50E-05	0.532483361
ZNF205	1.53E-05	-0.38032953
FLG	1.54E-05	-
		0.486688548
CCDC94	1.56E-05	0.466582038
LOC100653133	1.57E-05	1.027693126

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B9D2	4.07897E-08	-
LCK	4.13528E-08	0.413307151
Inc-TCIRG1-1	4.22399E-08	0.379815898
MOCS3	4.23546E-08	0.404227033
TREML1	4.32693E-08	-
SNORA9	4.36713E-08	0.370837896
LOC644656	4.37127E-08	-0.56972079
HIST2H4B	4.66884E-08	0.409693545
HIST1H2BL	4.77326E-08	0.476255084
TUBA8	4.9087E-08	-
SOX8	5.03649E-08	0.595961989
GGTLC1	5.2364E-08	-0.37972152
HIST2H2AA4	5.96525E-08	0.619212782
ATG2B	6.17214E-08	0.469780103
HIST1H2BB	6.43505E-08	0.415125132
MANF	6.48548E-08	-0.37722482
RAB21	6.50232E-08	0.365262873
FLJ36848	6.64314E-08	-
BMP6	7.84021E-08	0.385051551
WDR81	8.18414E-08	0.341127113
MIR4697HG	8.83976E-08	-
IKZF3	9.16659E-08	0.334739791
SPTBN5	9.314E-08	-
DGAT1	9.4511E-08	0.334791469
PRMT2	9.79189E-08	0.508436564
C1orf123	1.00181E-07	0.359124251
ZDHHC11	1.00909E-07	0.380527286
ECHDC2	1.01594E-07	0.359381987
HIST2H2AB	1.02391E-07	0.34161084
HIST1H2AC	1.04294E-07	0.343870414
TIMELESS	1.25191E-07	0.364834667
LIN7B	1.31666E-07	0.363420587
CTDSPL	1.35963E-07	0.410078932
NFE2	1.40952E-07	0.423507244
MDS2	1.42343E-07	-
SCGB1C1	1.47032E-07	0.433725617
TBC1D9B	1.48378E-07	0.433725617
HIST1H2AH	1.56166E-07	-
CXCR2P1	1.56505E-07	0.440462011
HIST1H2AM	1.60621E-07	0.338770152
		0.335899317
		-
		0.330857131
		-
		0.898010943
		0.345548771
		-
		0.400426924
		0.372250484
		-
		0.495173343
		-0.93932182
		-
		0.441666788

IFNAR2	1.57E-05	-
MRC2	1.59E-05	0.332720274
DUSP12	1.60E-05	0.513085812
MTERF3	1.60E-05	0.392052604
ARID4A	1.61E-05	0.436675123
CCDC130	1.61E-05	0.388187151
GPATCH8	1.61E-05	0.430164692
IL20RB	1.63E-05	0.342676275
GORAB	1.63E-05	0.438763848
BIRC3	1.63E-05	0.351458043
LOC102725353	1.67E-05	0.600945499
SMPD2	1.71E-05	-
CDK17	1.73E-05	0.384989723
IFIH1	1.73E-05	0.40746109
PLD6	1.74E-05	0.337479471
Inc-CCDC8-1	1.74E-05	0.483992276
EXOSC9	1.77E-05	-0.46825633
TBP	1.81E-05	-0.35916601
DDX26B	1.82E-05	0.528428093
CHD5	1.84E-05	0.331599172
NCAPH2	1.86E-05	0.521168881
PTCSC3	1.87E-05	-
LZTFL1	1.87E-05	0.738825218
SLC30A3	1.87E-05	0.369690242
SCARNA16	1.87E-05	-
SNORA80E	1.89E-05	0.472091229
MCCC2	1.89E-05	-
LIN52	1.94E-05	0.471293578
G3BP2	1.96E-05	0.379166148
RGS1	1.99E-05	0.330110269
NFYC-AS1	2.00E-05	-
FGFR1	2.00E-05	0.471529889
PAPOLG	2.00E-05	0.362683934
Inc-SNX17-1	2.01E-05	0.399114594
DNAJC27	2.01E-05	-
TMEM191B	2.04E-05	0.430424224
MGC39584	2.05E-05	0.396197097
U2AF1L4	2.05E-05	0.340875323
TRIP11	2.06E-05	-
MASTL	2.10E-05	0.951029335
		0.384791973
		0.386582588
		0.372620074

SUPPLEMENTARY MATERIAL

HIST1H1A	1.62577E-07	-
MGC27345	1.67293E-07	0.394625352
LAIR2	1.9057E-07	0.365951982
CTSF	1.93824E-07	0.588325077
ERP27	1.97183E-07	0.504670012
TRAF6	2.10065E-07	0.444040706
ITGB5	2.15646E-07	-
MYLK	2.2699E-07	0.347422538
LGALSL	2.27994E-07	-
TMEM158	2.35577E-07	0.409063481
SNORD59B	2.48861E-07	-
TNNC2	2.63577E-07	0.631004737
GOLGA6L4	3.002E-07	-
LINC00926	3.05335E-07	0.838971704
SNORD43	3.10232E-07	-
DGKQ	3.28295E-07	0.838971704
SGSH	3.30518E-07	0.391015621
FAXDC2	3.59375E-07	0.540160078
TSPYL1	3.67337E-07	-
TRIM56	3.71294E-07	0.456957074
lnc-CGN-1	3.89432E-07	-
lnc-AC074212.3.1-1	4.53919E-07	0.906429948
TTL	4.72088E-07	-
MYL9	4.90506E-07	0.367547388
CABP5	5.18222E-07	-
GUCY1B3	5.26309E-07	0.334385202
lnc-TMED5-1	5.61381E-07	-
DMTN	5.80866E-07	0.479089173
TUBB1	5.8527E-07	-
SLC11A2	5.861E-07	0.342377546
MYO15B	5.86477E-07	0.343921806
MTRNR2L9	6.27916E-07	-0.53065978
LOC100505771	6.54245E-07	0.373597581
RCCD1	6.67617E-07	-
TIPIN	6.76648E-07	0.337183179
PARP12	6.9803E-07	0.542577507
SPRY1	7.11264E-07	-
		0.65971649
		1.022643361
		0.332862202
		0.35992533
		-
		0.642043851
		0.400211966
		0.371991486
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		0.342358044
		0.410270412
		-
		0.383501586

LOC645261	2.10E-05	-
CCDC96	2.13E-05	0.422728525
FAM76B	2.13E-05	0.460657988
PIBF1	2.15E-05	0.374758989
lnc-AL445989.1-2	2.17E-05	0.380135164
HNRNPH3	2.18E-05	-
NFKB2	2.18E-05	0.358305712
UIMC1	2.21E-05	0.362652057
lnc-RP11-503N18.3.1-3	2.25E-05	-
IRF9	2.26E-05	0.609897147
PTMS	2.31E-05	-
HSPA5	2.32E-05	0.339525957
SPAG4	2.45E-05	-
SCAF8	2.45E-05	0.363787748
EEA1	2.46E-05	-
CFAP20	2.51E-05	0.352806687
EBLN2	2.52E-05	-
APOA1BP	2.56E-05	0.469952664
HPS5	2.56E-05	-
NUDT14	2.59E-05	0.467077241
ANXA2P3	2.63E-05	0.746152653
HSPA14	2.67E-05	0.341405778
BOD1L1	2.68E-05	-
LDHAL6A	2.77E-05	0.339378558
lnc-INSIG2-3	2.79E-05	0.617677177
MT1B	2.79E-05	-
ANP32A-IT1	2.83E-05	0.345834791
NCL	2.91E-05	-
RAP2A	3.00E-05	0.339542853
CWC25	3.04E-05	0.395861625
ANKRD65	3.14E-05	-
DDX47	3.14E-05	0.336018854
PSMA6	3.16E-05	-
ZNF410	3.17E-05	0.620710284
PRPF3	3.21E-05	0.429728297
NACAP1	3.31E-05	0.400192123
XLOC_l2_013192	3.32E-05	-
		0.354190066
		0.495165657
		-
		0.491231178
		-
		0.382465313
		0.381307468
		0.363300032
		0.424798562
		-
		0.658648854
		0.462070687
		-
		0.425178626
		0.406923443
		0.363789324
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		0.422405656
		-
		0.631134253

SUPPLEMENTARY MATERIAL

ZSCAN18	7.2229E-07	0.346342204
Inc-JMJD7-PLA2G4B-1	7.28329E-07	0.45763158
TRIM58	7.60774E-07	0.986157987
GRAMD4	7.61907E-07	0.357265477
GPRASP1	7.73007E-07	0.413235803
FAM81B	7.92239E-07	0.389942659
LOC155060	8.16752E-07	0.361146855
SLC6A4	8.30075E-07	0.335411134
KLHL3	8.92255E-07	0.391975505
CLDN5	9.33069E-07	0.551063986
HRASLS	9.3762E-07	0.356373317
NCOR2	9.4849E-07	0.343707199
RMRP	9.9175E-07	0.664322384
GNAZ	9.99378E-07	0.385101748
TNFRSF10D	1.00289E-06	0.363843307
Inc-MEGF11-2	1.09519E-06	0.399122951
XLOC_I2_013846	1.1118E-06	-0.3364571
HIST2H2AC	1.13759E-06	0.468610281
LOC728975	1.17555E-06	-0.44397011
POLR2J4	1.26584E-06	0.401268089
CAMKK2	1.30226E-06	0.379043439
ATP8A1	1.32422E-06	0.438251162
PDE5A	1.37188E-06	0.589885219
MTRNR2L3	1.45574E-06	0.494042116
PTCRA	1.54416E-06	0.786183821
GMPR	0.000001573	0.346722917
Inc-LINC00346-2	1.81138E-06	0.39998579
AIFM2	1.96883E-06	0.346193108
PUS3	1.97128E-06	0.333541954
C6orf25	1.9918E-06	0.465935697
TRAF3IP3	2.00199E-06	0.45729338
Inc-UGT8-4	2.05727E-06	0.442934495
PNPLA7	2.09002E-06	0.517244577
USP37	2.09398E-06	0.331104879
TBC1D4	2.15039E-06	0.345757815
GP6	2.16023E-06	0.483055768
HIST1H4K	2.20557E-06	0.489351705
ASIC1	2.21878E-06	0.472901259

ZFP36L1	3.33E-05	0.338850928
PI4KA	3.34E-05	0.411775361
XLOC_I2_001549	3.35E-05	-0.86164631
Inc-ARHGAP25-1	3.37E-05	0.462491008
SF1	3.40E-05	0.341690117
NFKBIA	3.41E-05	0.654300093
GOLGA8M	3.43E-05	0.404142592
HLA-J	3.44E-05	0.422230196
SPTBN2	3.48E-05	0.479359584
Inc-RTL1-2	3.48E-05	0.347867595
SSBP2	3.49E-05	0.445480308
GTF2B	3.49E-05	0.374741931
GSPT1	3.49E-05	0.401892597
OTUD3	3.56E-05	0.393851904
REV3L	3.59E-05	0.348615715
EZR-AS1	3.60E-05	0.725458418
TNNT1	3.62E-05	0.548550947
SNORD45A	3.63E-05	0.348523752
HNRNPA1	3.63E-05	0.501046733
SEC22A	3.64E-05	0.397021201
DVL2	3.67E-05	0.342776151
CSRP2	3.67E-05	0.432536744
DZANK1	3.69E-05	0.717666931
CALCRL	3.89E-05	0.360614419
HMBS	3.91E-05	0.355639655
EMC9	3.91E-05	0.359107957
XLOC_I2_007656	3.95E-05	0.435871565
CAMK2N2	3.97E-05	0.461596407
GALNT6	4.05E-05	0.40627627
LOC400590	4.17E-05	0.373330812
WHAMMP1	4.18E-05	0.683502628
UBTF	4.39E-05	0.385776184
CD48	4.41E-05	0.453716866
TEX12	4.51E-05	1.058977117
IER2	4.55E-05	0.638375751
ACTR6	4.57E-05	0.448784208
CMTM1	4.67E-05	0.450053166
LRIF1	4.70E-05	0.442517824

SUPPLEMENTARY MATERIAL

SNORD107	2.34948E-06	-
		0.427195195
Inc-NPFFR2-2	2.65475E-06	-
		0.379381358
MEIS1	2.73122E-06	-
		0.356608697
NGFRAP1	2.81826E-06	-
		0.479227397
HIST1H4H	2.83024E-06	-
		0.356777542
ANO9	2.98772E-06	-
		0.406856843
SLA	3.00088E-06	-
		0.34523064
TTC7B	3.09148E-06	-
		0.556578458
PLD2	3.11449E-06	-
		0.40963404
KIAA0895L	3.14834E-06	-
		0.334362813
DENND2D	3.27436E-06	-
		0.331841571
LOC100129455	3.35833E-06	-
		0.394960626
FAM63A	3.58225E-06	-
		0.454742348
GF11B	3.65477E-06	-
		0.479675685
LOC285629	3.65532E-06	-
		0.385264579
C2orf88	3.70792E-06	-
		0.634411617
HIST1H4F	3.9039E-06	-
		0.504363827
LAT	3.94633E-06	-
		0.339340181
HIST1H2BN	3.96417E-06	-
		0.374707583
ZNF815P	3.96852E-06	-
		0.356403573
BRAF	4.08548E-06	-
		0.368115588
HIST1H2AE	4.25595E-06	-
		0.376298795
REC8	4.27135E-06	-
		0.386714254
DDX11L16	4.38909E-06	-
		0.541531531
LOC100130938	4.63874E-06	-
		0.635294326
FER	4.65699E-06	-
		0.351736828
VCL	4.80999E-06	-
		0.575252436
ENOSF1	5.00086E-06	-
		0.402388079
SPOCD1	5.17868E-06	-
		0.674150177
MFAP3L	5.19824E-06	-
		0.481142638
HIST1H2BD	5.27853E-06	-
		0.364394243
PAWR	5.28832E-06	-
		0.337109448
ZNF204P	5.33279E-06	-
		0.473624815
NPHS2	5.37496E-06	-
		0.467465631
ENO2	5.58106E-06	-
		0.375994601

ESPL1	4.75E-05	0.505855183
LOC101927943	4.80E-05	-
		0.816223217
WDR41	4.80E-05	-
		0.363883422
SYCE2	4.81E-05	0.356793084
SNHG8	4.81E-05	0.511931459
SIK1	4.85E-05	0.671797205
TIGD1	4.89E-05	0.336487792
RNF103	4.90E-05	0.34785874
DCLRE1A	4.90E-05	0.337477055
GCSAM	4.90E-05	0.652970629
SMIM12	4.90E-05	-
		0.331356261
ATF6	4.94E-05	0.344470791
CREBZF	4.99E-05	0.382387852
NOC3L	5.03E-05	0.531651495
NCK1	5.06E-05	0.367085953
C4orf33	5.13E-05	0.531423992
MRPS31	5.14E-05	0.430542016
USP39	5.17E-05	0.369562954
LOC389765	5.35E-05	0.405037925
C1orf229	5.49E-05	-
		0.437683673
HLA-F	5.52E-05	0.364440886
LOC100128364	5.64E-05	-
		0.361248765
BSPRY	5.64E-05	-
		0.344076816
BUD31	5.65E-05	0.48542106
Inc-C17orf63-1	5.69E-05	-
		0.419505262
UBR1	5.71E-05	0.335803009
CNOT6L	5.79E-05	0.331539382
TANK	5.85E-05	0.369740287
SLC34A3	5.88E-05	-
		0.358782877
PIGG	5.89E-05	0.33582649
SNORA77	6.01E-05	-
		0.416271071
BAIAP2L1	6.04E-05	0.486491036
LOC100130587	6.10E-05	-
		0.715062274
AMN	6.17E-05	-
		0.353569799
UTS2R	6.18E-05	-
		0.522218163

SUPPLEMENTARY MATERIAL

PRKAR2B	5.69694E-06	-	0.931038016	SGK1	6.18E-05	0.40594147
PDE4DIP	5.70283E-06	0.356892535		CD97	6.18E-05	0.509695579
SNORD18C	5.72825E-06	0.379655019		MED30	6.23E-05	0.432687345
IQSEC1	5.91205E-06	0.389436471		SIX5	6.28E-05	0.348247147
TST	6.10845E-06	-	0.615654041	SMEK1	6.31E-05	0.338843268
VTRNA1-1	6.11386E-06	-	0.378775089	RNF8	6.32E-05	0.352150845
MAK	6.29267E-06	-	0.386027333	MT1L	6.42E-05	-
MTRNR2L6	6.45514E-06	-	0.543566579	CCNL1	6.68E-05	0.468061082
TMEM80	6.46598E-06	0.352247642		PRRT3-AS1	6.69E-05	-
DNM3	6.9455E-06	-	0.452539142	lnc-CDH4-1	6.81E-05	0.340933979
CDC25B	6.94851E-06	0.35163516		FBXO8	6.83E-05	0.396517606
SUZ12P1	7.14859E-06	0.419560007		lnc-SYCE1L-1	6.85E-05	-
CMTM5	7.53621E-06	-	0.726482767	NFAT5	6.85E-05	0.409191991
TOE1	8.30382E-06	-0.33822575		USP35	6.86E-05	0.460324917
PTGS1	8.99645E-06	-	0.561274916	SMAD7	7.02E-05	0.347834152
CDK2AP1	9.66395E-06	0.345549162		EDAR	7.10E-05	0.388505733
LRIG1	9.86686E-06	0.382992578		DYRK2	7.12E-05	0.431018205
SNCA	1.05197E-05	-	0.674753942	GSR	7.14E-05	-
lnc-PPIA-1	1.09974E-05	-	0.517977063	UCN2	7.14E-05	0.473140622
RBL2	1.13264E-05	0.339172498		FAM230C	7.17E-05	-
RPS26	1.16546E-05	-	0.794249441	ZEB1	7.18E-05	0.822797296
GP9	1.19082E-05	-	0.820013473	HMX1	7.23E-05	0.585352838
RAB27B	1.23746E-05	-	0.370433881	RPTOR	7.31E-05	-0.36517202
LINC00115	0.00001271	0.366261917		ANKRD20A5P	7.36E-05	-
HLA-DQA2	1.30911E-05	-	0.565077975	HIVEP2	7.40E-05	0.340276589
TMIGD2	1.32164E-05	0.354419763		PHLDB3	7.43E-05	0.428470938
CLU	1.32939E-05	-	0.693766906	ASNS	7.45E-05	0.537345162
ACRBP	1.36985E-05	-	0.887706547	HEIH	7.48E-05	0.529048412
C17orf97	1.38409E-05	0.441845999		TTC39B	7.49E-05	-
SMIM5	1.40321E-05	-	0.347614875	XLOC_l2_005465	7.55E-05	0.359109671
TNFSF4	1.42016E-05	-	0.424074029	LMBR1L	7.58E-05	0.368965563
LINC00989	1.42909E-05	-	0.431520213	SMNDC1	7.67E-05	0.426321576
ATXN7L2	1.55835E-05	-	0.336979494	TPGS2	7.73E-05	0.330950984
SNORD25	1.58054E-05	-	0.426998294	lnc-OST4-2	7.73E-05	-
BBS2	1.66412E-05	0.350177506		COL1A1	7.75E-05	0.524804471
SNORA46	1.76786E-05	-	0.346132387	FAM110A	7.83E-05	0.402623448
MTMR9LP	1.79388E-05	0.345478334		B4GALT4	7.97E-05	0.760819669
						0.37497042
						0.428693853

SUPPLEMENTARY MATERIAL

HIST1H1E	1.86623E-05	-	0.388260303
NRGN	2.08004E-05	-	0.804348726
BEND2	0.000021669	-	0.364368363
LOC388780	2.17096E-05	-	0.348572955
FADS2	2.25981E-05	-	0.360204471
lnc-AKT3-2	0.000024326	-	0.354960783
KRT72	2.73516E-05	-	0.361474066
CXCR6	0.000027633	-	0.543816508
LMNA	2.81584E-05	-	0.333090943
SNORD3B-1	2.81612E-05	-	0.350474192
LCN2	2.88604E-05	-	-0.4893692
INAFM2	3.17356E-05	-	-0.37850455
VNN2	3.20937E-05	-	0.336459881
LRRC14	3.20937E-05	-	0.366603419
DBH-AS1	3.56236E-05	-	0.520705051
lnc-ZC3H12B-2	4.18434E-05	-	-0.38510571
RNU4ATAC	4.22071E-05	-	-0.34186283
GP1BB	4.31518E-05	-	0.817642068
RAB15	4.32883E-05	-	0.349783594
TRIM25	4.45386E-05	-	0.478968187
PXDN	4.76021E-05	-	0.466022773
P2RY14	5.42453E-05	-	0.371098457
ZNF14	0.00005614	-	0.336742427
IFI16	5.91375E-05	-	0.334061693
COL9A3	7.10811E-05	-	0.541315403
NT5M	7.51642E-05	-	0.515967201
LOC284581	7.67283E-05	-	0.335336431
SLC12A7	7.96213E-05	-	0.402673943
PPP1R2	8.22057E-05	-	0.330652794
ITGA2B	8.33955E-05	-	0.454771343
FBXO25	8.58769E-05	-	0.334187209
SH3BGR12	8.61954E-05	-	-0.35918062
HIST1H1D	0.000100832	-	-0.45413893
F13A1	0.000101237	-	0.602296787
FLJ44511	0.000114948	-	0.332151538
FAM83F	0.000126975	-	0.370993439
ALOX12	0.000128504	-	0.511454059

GPN2	8.05E-05	-	0.366831802
GOLGA6L1	8.24E-05	-	0.435468279
BDP1	8.40E-05	-	0.36077298
lnc-FAIM3-2	8.40E-05	-	0.394636677
CEBPZ	8.41E-05	-	0.396215295
LOC644135	8.42E-05	-	0.715421952
RIMS3	8.42E-05	-	0.596839093
LOC102723701	8.52E-05	-	0.330822617
UHRF2	8.62E-05	-	0.344387846
LPPR4	8.78E-05	-	0.694243098
VAMP5	8.78E-05	-	0.368977152
DUSP16	8.82E-05	-	0.407155961
ALKBH7	8.84E-05	-	0.353022453
lnc-TMEM151A-1	8.88E-05	-	0.515200246
EMILIN1	8.88E-05	-	0.386654369
FBXO33	9.22E-05	-	0.336662402
TMEM161B	9.23E-05	-	0.337208014
KDM6A	9.25E-05	-	0.349373761
CDK7	9.44E-05	-	0.403296748
RPS10P7	9.47E-05	-	0.426764806
lnc-CPEB2-5	9.54E-05	-	0.361537956
ATL3	9.70E-05	-	0.374257112
ZNF582-AS1	9.88E-05	-	0.334285978
CASZ1	0.000103216	-	0.425425906
CD69	0.000104834	-	0.638197838
MT1HL1	0.000106646	-	0.429187514
KIN	0.000106831	-	0.334505344
EIF5B	0.000107032	-	0.407786119
FAM118A	0.000109531	-	0.388411034
SUMO3	0.000110031	-	0.401830545
TIPRL	0.000111136	-	0.344173343
PIM1	0.000113219	-	0.409800231
NAPRT	0.00011542	-	-0.461691
LOC100134937	0.000116188	-	0.360532162
ZNF8	0.000116668	-	0.38916703
ZNF654	0.000118111	-	0.359699207
ABI3	0.000119605	-	0.612251482

SUPPLEMENTARY MATERIAL

LOC100506563	0.000132784	-
		0.338463063
MTRNR2L2	0.000133468	-
		0.446404988
ODF3L2	0.000141752	-0.66079797
ITGB3	0.000152537	-
		0.644368268
TNF	0.000169562	0.482774774
KRT1	0.000182883	0.841916411
ZNF165	0.000183202	-
		0.491808209
PYGL	0.000203243	-
		0.371903494
ARG2	0.000210587	-
		0.408057236
SCARNA5	0.000219502	-
		0.633518221
HIST1H4A	0.000227882	-
		0.463512585
SLC24A3	0.000236319	-
		0.484645075
MTRNR2L8	0.000239024	-
		0.464345006
lnc-MINA-3	0.000239083	-
		0.687680205
IL1R2	0.000256621	-
		0.651306706
LY6G6F	0.000257862	-
		0.405344033
CD300A	0.000287655	0.389967301
SNORA54	0.00030238	-
		0.639431862
GGTA1P	0.000305573	-
		0.623614087
lnc-RNF13-2	0.000306605	-
		0.515661426
CKS2	0.000327777	-
		0.339426578
NEU4	0.000328965	0.350668403
SPON1	0.000352652	0.384102492
ADA	0.000428593	0.590437954
MTRNR2L1	0.000472006	-
		0.343743412
XLOC_I2_011118	0.00047404	0.330969074
PF4	0.000492282	-
		0.789971814
SDPR	0.00050002	-
		0.779265773
IGF2BP3	0.000505902	-
		0.369689758
C19orf33	0.000563389	-
		0.604552116
RASAL1	0.000576821	0.350372907
MICALL2	0.000627949	0.336280226
GNG11	0.000670736	-
		0.795899196
LAIR1	0.000706199	0.445790047
B3GAT1	0.000791304	0.425781109
TSC22D1	0.000832566	-
		0.361115308

RNF138P1	0.000120187	0.411029227
MEF2B	0.000120714	0.348395368
FAS	0.000124606	0.6485795
SCGB3A1	0.000124832	-
		0.343241754
SRSF3	0.000127378	0.513432238
ZNF383	0.000129628	0.367720709
LINC00359	0.000131569	-0.79646424
lnc-ID4-2	0.000131642	-
		0.714731222
SNORA2B	0.000132865	-
		0.441283284
IRF1	0.000133197	0.398091082
TCAF2	0.000133308	0.369235617
TMPRSS4-AS1	0.000133915	-
		0.441849276
LRRD1	0.000134112	-
		0.331657308
FAM122C	0.00013433	0.340952424
LOC439951	0.000134797	-
		0.437159341
UBALD2	0.0001352	0.366425283
FAM160B2	0.0001352	0.382384497
RARA	0.000136314	0.420986622
RPL23P8	0.000136595	-
		0.344631312
PPM1A	0.000137265	0.344444989
JMY	0.000138515	0.53986394
RASIP1	0.000140341	-
		0.714646693
GPHN	0.000140854	0.362464336
CTLA4	0.000141968	0.387164374
ZBTB32	0.000142061	-
		0.660919477
CCDC174	0.000142233	0.391201588
NME2	0.000144361	-
		0.422759569
lnc-TSC22D1-1	0.000147891	-
		0.371240578
LOC100129447	0.000150759	-
		0.398879554
PDK1	0.00015128	0.376051049
YPEL5	0.000153009	0.512407328
TARS	0.000153747	-
		0.355059498
CLUHP3	0.000155138	0.479487039
CDC42EP5	0.000156299	-
		0.510432257
GRASP	0.000158423	0.779190593
lnc-HIST4H4-1	0.000158739	0.384940719

SUPPLEMENTARY MATERIAL

PPBP	0.000835983	- 0.765454996
RGS18	0.000912377	- 0.803920799
SNORA28	0.000912685	- 0.421601983
FSTL1	0.000951766	- 0.378654206
Inc-ZNF507-1	0.000955535	- 0.432288922
CAPN2	0.001170747	0.429954474
PRKAG2	0.001184628	0.335886369
NSMAF	0.001238404	0.361080634
TPM2	0.001369609	0.380274109
ZNF683	0.001395088	0.708854037
HIST1H4J	0.001935385	- 0.330112028
CLEC1B	0.001984914	- 0.490584139
XAF1	0.001989176	0.332345543
KRTAP3-3	0.002300496	- 0.458284031
GSAP	0.00279225	0.359919148
SLC16A5	0.002818112	0.340236729
GCC2	0.002995245	- 0.332133523
CTTN	0.00301177	- 0.482481615
GZMK	0.003178393	-0.38102128
SNORD17	0.003197428	- 0.382069788
ZFYVE16	0.003199614	0.378460418
TMEM45B	0.003881183	0.364533541
LOC729451	0.004140064	- 0.344829203
ND2	0.004496043	- 0.356629765
MS4A4A	0.004536847	0.413001742
LOC344887	0.004561959	0.50332885
LPL	0.005076267	0.384006868
HGD	0.005417175	- 0.349654349
TMEM204	0.005620618	0.354744607
HSPA1A	0.005623997	0.496745799
CD79A	0.006693645	- 0.336033457
ND6	0.007076491	- 0.359185926
RNVU1-18	0.007126845	-0.40029022
CCR2	0.008324868	- 0.444445297
MUC4	0.008790503	0.393799107
KLRB1	0.008987832	- 0.488339506
TBC1D2	0.009077313	0.354759949
DDX60L	0.00959581	0.413604166

HPCAL1	0.000159731	- 0.352361942
LOC101927755	0.000160772	- 0.374446654
TCAP	0.000162156	0.41371965
CEP72	0.000162547	0.338425582
CCDC144A	0.00016344	- 0.574709481
COQ6	0.000163683	0.383231552
MSL2	0.000165825	0.344020705
POLR3E	0.000166018	0.452520985
GTPBP8	0.000166229	0.606958298
TXK	0.000168483	0.33750641
LOC100507391	0.000168622	- 0.757419937
TOMM34	0.000178625	0.362545065
GOLGA2P7	0.000178625	0.460565892
GALR3	0.000180996	- 0.438261977
ATP6V0E2-AS1	0.000185866	0.34856973
SLAMF8	0.000186977	- 0.675755292
ECHS1	0.000187525	- 0.377224468
Inc-C14orf166-1	0.000188366	- 0.707878227
OCM2	0.000188395	0.5285402
ZBTB48	0.000188838	0.398498583
Inc-STK35-1	0.000188851	- 0.336772302
LGALS3BP	0.000189216	- 0.363508226
SLFN5	0.00018967	- 0.363479486
OR5L2	0.000191557	- 0.645212199
LBX1	0.000192878	- 0.435744761
PER1	0.000195807	0.817947354
NR4A2	0.00019613	0.737400187
WHAMM	0.000197617	0.608964465
EDARADD	0.000198385	- 0.468602515
ZHX2	0.000200593	0.535031363
NLRP7	0.000200966	- 0.643517939
PPP1R10	0.000206055	0.342361585
CDC37L1	0.000208748	0.352957509
TEX10	0.000211074	0.367751419
Inc-TRA2A-1	0.000211565	- 0.565713463
Inc-RNASE10-2	0.000212199	- 0.402196228
SNORD69	0.000213103	- 0.358990802
SPAG5	0.000214118	0.425019542

SUPPLEMENTARY MATERIAL

ELOVL7	0.010211556	-	0.373232356
GPX1	0.010446461	-	0.336320177
RAB31	0.010464605	-0.44761792	
AHRR	0.010905419	0.340389655	
EGR4	0.01113047	-	0.429716501
ND4L	0.011220836	-	0.355796544
STAT6	0.011253465	0.353073888	
SMPDL3A	0.011473281	0.357464719	
CCL4L2	0.0115054	0.423735397	
LOC102723428	0.011685582	-	0.334197778
IL6	0.011880988	0.440901129	
FAM26F	0.012830561	-	0.390590511
LOC731424	0.012870532	0.464251844	
FGFBP2	0.013317401	0.344670714	
XLOC_I2_010908	0.013337079	-	0.353535718
SNORD66	0.015113171	-	0.400562828
GPR56	0.017542237	0.482171929	
OLIG1	0.01771677	0.499109417	
P2RX4	0.022025497	0.34447042	
SPON2	0.027490209	0.39965989	
FPR3	0.027702379	-	0.745660111
IRAK3	0.0295916	0.339205888	
HSPA6	0.031519917	0.34611458	
HLA-DRB5	0.032757414	0.405385349	
SRMS	0.049187771	0.335573847	

SATB1	0.00021413	0.364562164
RNF125	0.000220246	0.428152212
ZBTB10	0.000220555	0.572813984
CCDC78	0.000221097	- 0.380564834
CSNK1G2	0.000223845	0.366565373
YES1	0.000226974	0.413288811
PFKM	0.000226974	0.452503098
REL	0.000228733	0.450678724
GABPB1	0.000231483	0.427243543
SCYL3	0.000234287	0.348022721
CRY1	0.000235112	0.343050746
TMEM260	0.000237261	0.353649353
PIM2	0.000239622	0.561299151
lnc-ACRC-1	0.000241409	0.398347677
ANKRD20A9P	0.000243805	- 0.367461386
lnc-GALC-3	0.000245298	- 0.425776308
NDP	0.000248037	- 0.855427791
SNORD12B	0.000249278	- 0.331272728
TTC7A	0.00024935	0.381604826
CISH	0.000252136	- 0.773362274
HES4	0.000258966	0.720510256
lnc-DFNA5-3	0.000259386	- 0.360971582
EPB41L4A-AS1	0.000259637	0.40723483
CHD6	0.00025975	0.430537057
PLP2	0.000260346	- 0.406034542
SH2B3	0.000260808	0.331373039
XLOC_I2_000339	0.000268175	- 0.754719519
RSRP1	0.000270555	0.668937913
LUC7L	0.000271824	0.431826531
CHKA	0.000272082	0.439889596
SNORA5A	0.000273388	- 0.376581593
MCEE	0.000274142	0.459897057
lnc-FAM76A-1	0.000274959	- 0.368391051
HSBP1L1	0.00027606	0.340682069
F12	0.000279007	0.480272196
TBC1D15	0.000283329	0.379637049
GUSBP1	0.000287196	- 0.427276747
OTUD6B-AS1	0.000288813	0.380346763
DBN1	0.000301592	- 0.557984805
SNORA61	0.000302559	- 0.450783776
AGPAT4	0.000306618	0.429894025

CLK1	0.000310169	0.522521375
CDK11A	0.000311738	0.365408179
THSD1	0.000311777	0.372218948
SNORD33	0.000318389	-
		0.485910192
LINC01016	0.000340126	-
		0.446643938
DHRS3	0.000342878	0.572333653
lnc-PLCD3-1	0.000344808	-
		0.441611257
MSL3	0.000350978	0.367997985
DCANP1	0.000353469	-
		0.623691086
SEMA4C	0.00035969	0.708551051
GRAMD1C	0.000362299	0.448836997
NFKBID	0.000362635	0.420663126
lnc-KCNA5-3	0.000362746	-0.52798145
EFTUD1	0.000364477	-
		1.029847986
lnc-FBXO25-3	0.000365119	-
		0.454630704
RANGAP1	0.000368237	0.418382942
lnc-TTLL2-1	0.000369051	-
		1.077829678
CENPC	0.000373372	0.496798943
GOPC	0.000373545	0.441524667
IKZF4	0.000381527	0.436437756
NDUFAF5	0.000384236	0.40315984
STARD13	0.000389554	-0.60321741
lnc-PTP4A2-1	0.000389554	-
		0.355899505
AANAT	0.000392757	-
		0.571252488
SNORD86	0.000398257	0.620430455
TMEM71	0.000400506	0.552699279
GPAT2	0.000405686	-
		0.420022734
METR1	0.00040624	-
		0.500618542
DPRX	0.000407082	-
		0.574216735
LRRC56	0.000410949	0.35380962
SCARNA10	0.000411573	-
		0.529125559
HELO	0.000412639	0.428088655
GADD45B	0.000416199	0.805348729
ZNF720	0.000418946	0.379080783
HSP90B1	0.000422097	0.340167743
GLMN	0.000436633	0.380783282
PAPSS1	0.00043844	0.344177348
CCDC183-AS1	0.000442449	-
		0.517706828
PCAT4	0.000447836	-0.66626162
TGM6	0.000449958	-0.38216142
LINC01001	0.000460397	-
		0.373548748
XLOC_12_004867	0.000462173	0.613164842
DEPDC7	0.000466604	0.38501053
GRIK3	0.000467183	-
		0.618655681
GPR137	0.000472056	0.398222855

WNT2B	0.000472488	-	0.504843006
Inc-CR392000.1-2	0.000473309	-	0.359837494
SBDS	0.00047436	-	0.422698501
Inc-SLC15A4-2	0.000481261	-	0.450128135
KLF10	0.000482052	-	0.421493068
LIPA	0.000484976	-	0.484211396
SELK	0.000485012	-	0.422524655
CCM2L	0.000494253	-	0.526139876
LOC101929787	0.000497183	-	0.472293421
GZMM	0.000511954	-	0.391944736
ZNF595	0.000515853	-	0.428155401
PGAP1	0.000519706	-	0.401493652
C5orf58	0.000523957	-	0.380820614
GOLGA6C	0.000532556	-	0.40478685
Inc-ARRB2-2	0.000533184	-	1.124549416
SNORD42B	0.000550931	-	0.358474232
CTSO	0.000561338	-	0.401793602
ID1	0.000567754	-	0.426430407
Inc-PIK3CG-2	0.000573487	-	0.432466897
RIMKLB	0.000574675	-	0.334255192
Inc-DAAM2-1	0.000579459	-	0.748893293
SUMF1	0.000580396	-	0.346920594
ESYT1	0.00058105	-	0.355076881
Inc-SNX11-2	0.000588748	-	-1.12798006
SMG9	0.000592648	-	0.330612168
RIOK1	0.000596504	-	0.495515035
LOC102725199	0.000598589	-	0.416151506
KLF2	0.000599443	-	0.503885832
KLHL23	0.000601965	-	0.983058389
SOD1	0.000607811	-	0.336877709
GPBP1	0.000613121	-	0.373333129
FOSB	0.000620939	-	0.656644105
LOC101927757	0.000630356	-	0.987611488
ARHGAP31	0.000630356	-	0.377009223
HAPLN3	0.000630441	-	0.450276872
VNN1	0.000633456	-	0.400164472
CEACAM19	0.000640286	-	0.372470559
SAP30	0.00064526	-	0.414037829
ZFAND2A	0.000651385	-	0.509280543
Inc-TRIM27-15	0.000652927	-	0.425384742
MYSM1	0.000659888	-	0.33381649
ZBED2	0.000668231	-	0.526119043

SLC5A3	0.000668961	-	0.467765193
lnc-TPTE-3	0.00067308	-	0.343415418
PRKRA	0.000677916	-	0.502733815
MAGEB6	0.000708944	-	0.834583203
NKX2-5	0.000710294	-	0.363847779
HLA-DRB3	0.000712031	-	-0.75281674
lnc-MME-4	0.000713236	-	0.341779413
lnc-ST7-1	0.000717953	-	0.466682869
TDRD9	0.00072188	-	0.389493566
lnc-ARMC6-1	0.00072188	-	0.348459438
LOC100506929	0.000723077	-	0.678377674
lnc-FKBP2-1	0.000726159	-	0.354357032
lnc-CLEC18B-2	0.000730075	-	0.399764376
NBPF9	0.000730499	-	0.338922633
SCARF1	0.000731413	-	0.426061831
CYP17A1	0.000746587	-	0.377166851
PPP1R15B	0.000749608	-	0.414300904
SNORD74	0.000749745	-	0.371213328
MAGI3	0.000750093	-	0.342529878
TTC32	0.000750864	-	0.333959671
NDUFAF7	0.000753643	-	0.389938795
FAM222A	0.000754683	-	0.425997918
GATSL3	0.000756598	-	0.341840923
RGS16	0.000767619	-	0.67925539
FPR2	0.000783125	-	0.563340034
GPR152	0.00078448	-	0.365530966
IFI27L2	0.000787016	-	0.370654957
ALDOA	0.000787272	-	0.395669542
IL23A	0.000792023	-	0.682560755
NUP153	0.000792475	-	0.330070968
lnc-TMEM50B-1	0.000795513	-	0.535498582
lnc-METAP1-3	0.000805845	-	-0.57477043
OXCT1	0.000806207	-	0.345759061
LOC728392	0.000808637	-	0.394115277
DUSP1	0.000811815	-	0.407154022
LOC101927979	0.000816663	-	0.924111246
PPIG	0.000830519	-	0.443990044
VASP	0.000843456	-	0.437922536
NDE1	0.000845459	-	0.407146795
TAF1D	0.000867345	-	0.392874131
ZCCHC13	0.000897655	-	0.447319747

SNHG1	0.000910046	0.54801882
SRSF2	0.000929281	0.354680116
HYLS1	0.000936405	0.352371986
TMX1	0.000954691	-
DDX20	0.000954691	0.393326488
PTGDS	0.000962899	0.353674479
FAM167A-AS1	0.000967208	-
S100A5	0.000967239	0.357186296
DENND3	0.000967678	-
FAM160A1	0.000969681	0.411903042
SNCB	0.000996081	0.408007538
RRN3	0.001018357	-
NACA2	0.001018395	0.364630169
ZNHIT3	0.001025806	-
TAGAP	0.001028337	0.494479237
lnc-JAG1-5	0.001028568	0.331277578
SFRP1	0.001031997	-0.34322294
HMGB2	0.001033452	0.349424086
MYCL	0.001049529	0.425977198
LINC01006	0.001072856	-
ICOS	0.001073904	0.565318983
ALG13	0.001074788	-
IQCB1	0.001089941	0.472295807
SEC14L2	0.0011012	0.3524332
BCAS2	0.001132155	-
NPC2	0.001135324	0.669136429
UTP15	0.001145462	-
lnc-RTL1-6	0.001160127	0.436078702
PPT1	0.001194835	0.67077062
TXLNG	0.001225981	0.362410648
JUNB	0.001239919	0.33254653
NR1D2	0.00126657	0.534084694
CCDC112	0.001289793	0.547177585
IFRD1	0.00130732	-
XLOC_I2_004385	0.001315371	0.738742484
IL27RA	0.001315371	0.379794179
IGLL1	0.001329256	-
lnc-BTN3A2-1	0.001332501	0.849101602
CD8B	0.001333708	-0.35368674
PHLDA1	0.001372742	0.400591408
EGFR	0.001394353	0.343450463
A2M	0.001403551	0.342543996
WARS	0.00140403	-
		0.331526209
		0.468503328
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		-0.3814086
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		0.821316835
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ABHD14A	0.001405347	-
PBX4	0.001410182	0.348500876
lnc-ULBP3-1	0.001414086	0.483216745
PER2	0.001430106	-
DEAF1	0.00144129	0.585081612
lnc-BID-2	0.001448155	0.343213883
lnc-CS-1	0.001459639	0.595946877
TRIB3	0.001459639	-
lnc-LSR-1	0.001459639	0.534199492
EFNA1	0.001462058	-
CTH	0.001481097	0.453210998
DAGLA	0.001481438	-
ZNF620	0.001511384	0.396124438
HDGF	0.001513752	0.53102837
SNORD104	0.001516723	0.55564122
LOC101930426	0.001536966	-
FCGBP	0.00153817	0.375267869
lnc-NDUFV2-1	0.001543548	-
CHMP7	0.001554948	0.808956585
CCDC59	0.001557842	0.348767472
COPRS	0.001559447	0.353873613
ARL5B	0.001568992	-
NCR3LG1	0.001569687	0.417749075
lnc-PLEKHG6-1	0.00160711	0.460860189
PNRC1	0.001611305	0.38022504
OR52E8	0.001646964	-
COG8	0.00165612	0.414284246
TRIM36	0.001682644	0.3402025
DOCK4-AS1	0.001709908	-
RGS2	0.001733572	0.833887794
MIR155HG	0.001742831	-
MYO5C	0.001757596	0.654721001
CCDC28B	0.001773722	0.392911403
LINC00923	0.001780416	0.40836835
SYTL3	0.001790277	-
TTC23	0.001793783	0.619319369
ZNF256	0.001800418	0.496871953
BTLA	0.001801309	-
MTHFD2	0.001802406	0.875631982
IKZF5	0.001802406	0.345715952
LYG1	0.00181612	0.467061076

CREM	0.001865617	0.340892097
ECD	0.001916205	0.345763757
ALOX5AP	0.001967645	-
TUBA4A	0.001994727	0.386494341
FBLN5	0.002015453	0.4676216
LOC101927882	0.002016116	-
		0.600263557
RNU12	0.00204172	-
		0.430392101
Inc-IL12RB2-2	0.002085774	-
		0.540237218
Inc-CDC25B-1	0.002112694	-
		0.365015712
TIMM23B	0.002144657	0.381953856
ESF1	0.002193625	0.353891798
LOC101927059	0.002202264	-
		0.558505013
CTSW	0.002210558	-
		0.429244724
TTC25	0.002239778	0.399876992
GKAP1	0.002264659	0.470966793
LSMEM1	0.002286487	0.367697946
ABHD6	0.002297735	-
		0.410704376
Inc-PAPOLG-1	0.002352754	-0.39864248
Inc-CHTF8-2	0.002390568	-0.72274394
Inc-AC009365.3.1-1	0.002403365	-
		1.001173219
SDE2	0.002429411	0.330994905
SNORA45A	0.002431083	-
		0.432304747
TESPA1	0.002431645	0.507923591
SLC10A1	0.002438113	-
		0.425212343
ADPRM	0.00244372	0.369152265
RNF138	0.002461722	0.33314941
MYLIP	0.00247402	0.435341547
KCNJ14	0.002484649	0.331730507
UNC93B1	0.002551958	-
		0.347599262
PIGA	0.002585475	0.380777649
DPP9-AS1	0.002587587	-
		0.758298896
SYAP1	0.002698007	0.384666263
RPA4	0.002737862	-
		1.021546624
CHST6	0.002759854	-
		0.348773459
LY96	0.002783248	-0.58270404
LOC100131910	0.002857524	-
		0.690176156
LOC102723473	0.002869424	-0.37834128
NPDC1	0.00291891	0.378090285
NAA16	0.002921992	0.34183373
XLOC_l2_001192	0.002967192	-
		0.331167959
NISCH	0.003022504	-
		0.669832108
NCF4	0.003062464	-
		0.356942915

TXN	0.003081936	-	0.832980855
NPAT	0.003147883	-	0.366932861
XLOC_I2_014814	0.003182784	-	-0.34663141
SETD9	0.003205607	-	0.443586753
PPP1R1A	0.003279255	-	0.995053665
SNORA76C	0.003400564	-	0.357466979
TRAT1	0.003420718	-	0.375043242
OSCAR	0.003438038	-	0.402058988
SDF2L1	0.003478402	-	0.343354346
PYCR1	0.003479242	-	0.459609083
POTEF	0.003479898	-	0.358055668
LRRC32	0.00352104	-	0.353615983
FABP5	0.003571942	-	0.642316624
SNORD34	0.003658354	-	-0.36120452
Inc-CADM2-5	0.00366131	-	0.484928833
MRPL18	0.00368989	-	0.37936785
ATP6V1A	0.003711733	-	0.396798709
PYCARD	0.003738404	-	0.384421043
SNHG15	0.003738772	-	0.37966764
PTAFR	0.00378354	-	-0.36514705
UBD	0.003935096	-	0.575653612
TUBB2A	0.003943672	-	0.362116229
FBXO2	0.004020013	-	0.478526473
HSPH1	0.004023611	-	0.545289876
DCLRE1B	0.004055658	-	0.402065318
Inc-GADD45G-5	0.00410017	-	0.415239648
Inc-TRIM16-1	0.004134379	-	0.383133402
BACE1-AS	0.004380466	-	0.347490219
CD3G	0.004383489	-	0.396939455
C4orf46	0.004459436	-	0.36934026
ERF	0.004602495	-	0.394167829
LOC100130950	0.004618465	-	0.896166608
SNORA20	0.004873108	-	0.346019462
IGSF22	0.004887286	-	0.345375855
LOC101928741	0.004910997	-	0.946558236
Inc-TBX3-3	0.00496518	-	-0.41612112
HLA-DRB4	0.004995329	-	0.575430031
HEBP1	0.004996374	-	0.542573977

FOSL2	0.005069334	0.380454051
NAPB	0.00507604	0.330308736
TSC22D3	0.005113241	0.340175315
APOBEC3A	0.005167191	-
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lnc-GNG8-1	0.005195275	-
		0.951051489
SLC7A5	0.00522952	-
		0.408834228
lnc-AC069257.9.1-4	0.005267917	-
		0.417331716
PPP1R14B	0.005283456	-
		0.335621006
lnc-GPR83-2	0.005315779	-
		0.491588284
NAGA	0.005331506	-
		0.390350019
LOC101927919	0.005340398	0.349793476
PTDSS2	0.005585746	-
		0.415169056
INHBA-AS1	0.005605817	-0.90508426
ENO1	0.005668619	-
		0.384731729
SH2D3A	0.005707288	0.480435546
SNORD110	0.005717013	-
		0.396254181
CMKLR1	0.005758339	-0.39778436
DNAJA1	0.005782087	0.37877844
LOC100505811	0.005799611	-
		0.985702001
XLOC_l2_015529	0.005886677	-
		0.506716722
AREG	0.005988945	0.426607781
HLA-DPB1	0.006080262	-
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CD200	0.006121254	0.34904742
LOC101928710	0.006279282	0.37078218
CTSLP2	0.006402026	-
		0.482139288
LACC1	0.006410537	-
		0.609824245
NLN	0.00642777	-
		0.457210315
WDR74	0.006547097	0.341905496
LINC01578	0.006567224	0.478237897
lnc-SSPN-2	0.006578201	-
		0.745348332
SIGLEC17P	0.006644291	-
		0.391758607
ACTR2	0.006799972	-
		0.332693527
DNASE1L3	0.00681778	-
		0.551092192
FZD1	0.006955104	-
		0.333855453
lnc-COL1A1-3	0.007150523	-
		0.461624349
C19orf83	0.007217575	-
		0.337457334
HLA-DMA	0.007483198	-
		0.383920466
CLECL1	0.007565925	-
		0.381983543

SIGLEC9	0.007586967	-	0.413416747
lnc-ZC3H12D-2	0.007620579	-	0.929409107
RAB33A	0.007734909	0.478951061	
CLEC17A	0.007740579	0.369246818	
lnc-ENTHD1-1	0.007795989	-0.97667239	
PEX12	0.007802555	0.353776256	
ID4	0.007857724	-	0.357209082
RNF150	0.007878482	-	0.913379207
C4orf51	0.008238573	-	0.823594561
lnc-PRMT8-2	0.008375362	0.513826762	
lnc-REEP5-1	0.008521818	-	0.918567772
EGR3	0.008917604	-	0.486440489
SNHG17	0.009364352	0.395217667	
JAKMIP2	0.009372543	-	0.585741563
HERC2P9	0.0094471	-	0.427213942
TMEM106A	0.009502489	-	0.373915779
TSPAN13	0.009584892	-0.34795072	
LOC391322	0.00967684	-	0.398167225
MED19	0.009776414	-	0.469220284
TNFRSF4	0.009941232	0.415732064	
SNORD45B	0.010070052	-	0.416040431
TRAF4	0.010134974	0.351704079	
LOC100996286	0.010280186	0.444814548	
lnc-MFAP4-1	0.010311099	-	0.364378961
lnc-SNX18-1	0.010505137	-	0.949357427
CD74	0.010519639	-	0.367824681
TIFAB	0.011275422	-	0.602202742
MYO1G	0.011413532	-	0.385521963
P2RY6	0.011696609	-	0.564366951
GADD45G	0.011908127	0.62365006	
HSPA1B	0.01222072	0.822435264	
lnc-FAM72C-2	0.012390652	-	0.596264324
HSPE1	0.012501102	0.335800515	
C12orf65	0.012557512	0.355025746	
CALCA	0.012575728	-	0.378917084
lnc-RP1-239B22.1.1-1	0.013100754	0.339497329	
ZNF516	0.013288308	-	0.383040316
PTPRE	0.013366475	-	0.496540311
XLOC_l2_006101	0.013531871	-	0.883744471

RNF13	0.013574433	-	0.372666202
PGD	0.013680531	-	0.493170506
SLC37A2	0.013768624	-	0.509429187
lnc-USP8-2	0.013798265	-	0.366091276
FCGR1B	0.013874081	-	0.376190194
GCLC	0.013919391	-	-0.37006168
LOC102724689	0.014037095	-	0.470767669
lnc-ODZ4-2	0.014062963	-	0.863797597
MLH3	0.01407602	-	0.399982675
PPAN-P2RY11	0.014260765	-	0.376560178
ZNF10	0.014282883	-	0.355953888
NR1D1	0.014667511	-	0.343338925
XRRA1	0.015168302	-	0.411399171
CCDC71L	0.015173923	-	0.408017778
lnc-NT5DC1-4	0.015297181	-	0.335501204
MAPT-AS1	0.015677999	-	-0.87422188
CDC42EP2	0.016436727	-	0.664179461
CD226	0.017063826	-	-0.46485992
RHBDL1	0.017512458	-	0.352023272
PCTP	0.017812308	-	0.602639218
CALD1	0.018141873	-	0.423282312
lnc-SRP54-1	0.018245306	-	0.370097023
SERPINF1	0.018352422	-	0.364883666
FERMT3	0.018880235	-	0.430444474
lnc-BTG3-2	0.019442307	-	0.363073705
TRA2B	0.019569402	-	0.34229571
RORC	0.019840593	-	0.336092782
DEFB1	0.019889906	-	0.387805056
C2orf40	0.020283728	-	0.359523222
IFNG	0.020300727	-	0.428590047
SOWAHC	0.021070082	-	0.571305973
KCNE3	0.021261292	-	0.536118473
OVOL1	0.021373103	-	0.406342413
MILR1	0.021382474	-	0.385631661
BICC1	0.021481196	-	0.845604688
KCTD12	0.02172768	-	0.557800536
lnc-ARRDC3-1	0.02235288	-	0.366613505

BID	0.022362556	-	0.550328273
RCN1	0.022641274	-	0.341939734
lnc-SNX24-1	0.022698699	-	0.849817961
RP2	0.024000868	-	0.402917757
CCDC66	0.024014977	-	-0.77029899
LIMS3L	0.024283696	-	0.632890117
SCOC-AS1	0.025076777	-	0.834387148
ASAH1	0.025677631	-	0.430446048
ENKUR	0.025946598	-	0.416717708
lnc-CXCL2-1	0.026501729	-	0.404285737
HLA-DMB	0.027104032	-	0.375481032
TTYH3	0.027111234	-	0.370320652
PEG3	0.027851964	-	0.357125336
JDP2	0.028096431	-	0.474003426
SPHK1	0.029353241	-	0.348511112
HLA-DRB1	0.02941777	-	0.405591394
lnc-GFRA2-1	0.029596008	-	-0.83101967
CENPK	0.030239773	-	0.353695643
lnc-CD300C-1	0.030899336	-	0.401711202
KRT79	0.032661247	-	0.828963104
HLA-DPA1	0.033095692	-	0.425202245
HLA-DRA	0.03419776	-	0.382396025
TALDO1	0.035038111	-	0.361945557
CFB	0.03537923	-	0.506286967
APOBEC3B	0.035625873	-	0.702979964
SPP1	0.036746512	-	0.637373233
AIM2	0.037382208	-	-0.39107058
CAPG	0.037432441	-	0.406772266
lnc-MUC20-2	0.037453958	-	0.357261521
AP1S2	0.038206563	-	0.354787863
CDH1	0.03889116	-	0.423291948
PIR	0.039461474	-	0.409625951
CXCL9	0.040000296	-	0.348225318
CASP5	0.040320118	-	-0.33051916
ZNF697	0.040327092	-	-0.33635214
MPEG1	0.040367466	-	-0.54790143

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NLRP3	0.043517775	-
SLC1A3	0.043990645	-
lnc-RP11-201M22.1.1-2	0.044120187	-
TXNRD1	0.044155658	-
FAM198B	0.044264401	-
ISG15	0.045234545	-
PROM2	0.045265018	-
ASPH	0.046552362	-
FCGRT	0.048011666	-
CXCL16	0.048016846	-
GSTO1	0.048087206	-
DNAJA4	0.048849986	-
ABTB2	0.049357022	-

SUPPLEMENTARY MATERIAL

at 8 m 988 DEGs specific for Part group			at 8 m 535 DEGs shared between Part and Full groups			at 8 m 782 DEGs specific for Full group		
8 m part specific	adj.P.Val	logFC	8 m shared	adj.P.Val	logFC	8 m full specific	adj.P.Val	logFC
ERN1	1.81E-15	-0.588361876	NPM3	2.95352E-10	0.386551586	ZMYM6NB	8.99E-14	0.398042258
Inc-ISCU-1	2.86E-15	0.363542926	CD36	7.23665E-10	1.751447743	GMCL1	2.20E-13	0.389875613
LINC00635	4.54E-14	0.345873125	SNORA26	7.23665E-10	0.420002551	LSM5	2.34E-13	0.519260687
PHACTR2	1.36E-13	-0.620498854	SNORD16	9.27729E-10	0.612886816	IFT46	2.51E-13	0.39553242
ALDH3A2	2.69E-13	-0.569056782	ORC4	3.24057E-09	0.432059923	ICAM5	2.97E-13	-0.348355549
PLCD1	7.09E-13	-0.381581314	SNORA72	3.86555E-09	0.614663228	SNORD4B	2.97E-13	0.392101517
RTCB	2.57E-12	0.427390896	SNORD15A	4.99994E-09	0.643793349	GEMIN6	1.78E-12	0.346714412
APBA3	2.76E-12	0.527215674	PDGFB	1.26514E-08	-0.79049409	EXOC3	3.68E-12	-0.350995131
RAD1	5.64E-12	0.359280903	HIST1H1B	1.86539E-08	0.460868385	MICU1	4.34E-12	-0.367308066
SARS	5.64E-12	0.494846922	SNORD42B	3.89356E-08	0.471419699	RBM7	4.71E-12	0.448707378
GLRX	7.45E-12	-0.688574537	CCND2	4.18319E-08	0.514891179	CPT1A	6.01E-12	-0.533191414
ASPH	1.35E-11	-1.02785277	ITGA5	4.6026E-08	0.583054639	TEX30	8.19E-12	0.51375753
SLC39A11	1.35E-11	-0.483453553	MYO1F	4.68271E-08	0.709168022	NRM	1.40E-11	-0.383231103
HDAC4	1.35E-11	-0.467771157	CD84	5.26952E-08	0.521134262	JPH4	1.50E-11	0.452196897
SLC20A1	1.35E-11	-0.362794069	Inc-ICKBE-1	6.03539E-08	0.853311615	HNRNPA0	2.25E-11	0.333753473
CCDC28B	1.35E-11	0.700605123	ADAP2	6.43779E-08	1.146144944	ANKRD39	2.25E-11	0.339494475
CHRNA6	1.35E-11	0.864447163	NLRC4	6.62759E-08	1.239014813	SNORA8	2.39E-11	0.457127193
RASA3	1.46E-11	-0.570763182	METTL18	8.71052E-08	0.447786849	PRPS1	3.02E-11	0.336283958
SNORD9	1.48E-11	0.514819783	PDLIM7	9.40352E-08	0.583893995	SNORA5B	3.02E-11	0.437695057
SNORD1C	1.50E-11	0.413133956	IL13RA1	1.00669E-07	0.898114665	KIFAP3	3.16E-11	0.38077096
WDR81	2.12E-11	-0.51941209	SNORA9	1.17695E-07	0.47836504	TMEM60	3.32E-11	0.42854145
XLOC_I2_004854	2.15E-11	-0.361129457	SP1	1.2621E-07	1.156409248	EHBP1L1	4.49E-11	-0.699685936
PRMT1	2.57E-11	0.374384791	SNORA27	1.33816E-07	0.634941997	SYNJ2BP-COX16	4.51E-11	0.337708721
Inc-MAGEB1-1	2.99E-11	-0.346767817	FGFRL1	1.5083E-07	0.470007409	RGL4	5.86E-11	0.627665052
Inc-TMEM140-1	2.99E-11	0.343415714	CD300E	1.95101E-07	1.131104844	MOCS2	6.13E-11	0.389673761
LOC101928152	4.22E-11	-0.718567589	CALHM2	2.66306E-07	0.679695051	MAP3K11	6.27E-11	-0.338633699
Inc-NNT-1	4.75E-11	0.422680677	SLC44A1	3.0549E-07	0.640587786	SNORA32	8.25E-11	0.419629694
SNORD69	5.51E-11	0.492231769	DPRX	3.18484E-07	0.676544952	GNAI3	8.74E-11	0.447916955
AASDHPPT	6.80E-11	0.348912989	SNORA36B	3.55938E-07	0.374690298	FAM50B	9.94E-11	0.411027712
ZFHX2	6.82E-11	0.477274088	IQSEC1	4.32546E-07	0.532403479	PI4K2B	1.01E-10	0.361642945
Inc-FSIP1-1	8.33E-11	-0.560935564	EBPL	4.46692E-07	0.46878546	BCDIN3D	1.06E-10	0.380908598
MEG9	8.80E-11	-0.559279299	ASGR2	4.84956E-07	0.456884176	LRRC58	1.23E-10	0.346920153
CEACAM21	8.99E-11	-0.35876966	FPR3	5.83526E-07	2.091222695	PDIK1L	1.38E-10	0.340033419
GCDH	9.27E-11	0.437529411	CYP1A1	6.0766E-07	0.475529764	RWDD3	1.45E-10	0.373186796
LRP8	9.76E-11	-0.563862733	SNORD105	6.13501E-07	0.521309872	MAP7D1	2.30E-10	-0.433957175
TIMM10	9.76E-11	0.422031252	HTRA1	6.34448E-07	1.282012165	C10orf54	2.42E-10	-0.417989602
LOC729603	1.00E-10	-0.335738836	SNORD55	6.48894E-07	0.634875005	LPPR2	2.58E-10	-0.528995294
CENPBD1	1.05E-10	-0.421502673	MILR1	6.51368E-07	0.679818169	SUCLG2	2.72E-10	0.369795192
CTLA4	1.18E-10	-0.502590492	AANAT	6.52066E-07	0.651295612	DDX60	4.97E-10	0.461115442
EMB	1.34E-10	-0.40911408	GGA2	6.60608E-07	0.395425904	SPATA20	5.09E-10	-0.564993006

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PDE4DIP	1.37E-10	-0.584579589	SNORA15	6.67676E-07	0.55863435	COL9A3	6.18E-10	-1.086252631
ALDOC	1.44E-10	0.354201976	LOC101927943	6.90434E-07	0.800083157	PPM1M	6.41E-10	-0.490473609
ERVMER34-1	1.49E-10	0.384733575	SNORD84	7.33303E-07	0.451910718	lnc-RNASE10-2	6.79E-10	0.566300519
ACTL10	1.80E-10	-0.34790874	DNASE1L1	7.60787E-07	-0.56795433	MYO5A	6.87E-10	-0.397742481
ATP8A1	2.50E-10	-0.657527925	CFB	7.62987E-07	0.963808764	TGDS	8.33E-10	0.389457825
OSTF1	2.61E-10	-0.603783934	APOBR	8.0691E-07	-	SERPINA9	8.44E-10	-0.366124507
lnc-MGAT1-1	2.63E-10	-0.525371838	LINC00359	8.20806E-07	0.937124978	OSER1-AS1	9.17E-10	0.362833004
ERAL1	2.98E-10	0.332119699	CD163	8.9591E-07	0.828396956	MBLAC2	1.14E-09	0.357294861
SCARNA6	3.05E-10	0.616454467	PLXDC2	9.47318E-07	-	GD11	1.65E-09	-0.384221579
CLIP1	3.89E-10	-0.515408687	C5AR1	9.53499E-07	1.771872757	IRF2BP2	1.71E-09	0.400601678
ITGA4	4.17E-10	-0.339847336	CRLS1	9.53698E-07	-	FHOD1	1.85E-09	-0.505743453
SNORD24	4.20E-10	0.466396506	CDC42BPB	9.64665E-07	1.760165108	EFHD2	1.87E-09	-0.414916922
SLA	4.47E-10	-0.528390625	GPR162	1.03352E-06	0.343167552	NUP107	2.13E-09	0.453371334
LOC100506844	4.56E-10	0.372374149	GPX1	1.03352E-06	-	RWDD1	2.21E-09	0.33296515
ZNF181	4.65E-10	0.351227337	RCBTB2	1.11737E-06	0.414965526	ORC5	2.60E-09	0.355755181
DNASE1	4.75E-10	-0.333516604	PLXNB2	1.16651E-06	1.018655566	FHL3	3.15E-09	-0.543600356
YARS2	5.28E-10	0.354885236	PEX12	1.30858E-06	-	COX10-AS1	3.16E-09	0.440361783
LOC100128670	5.72E-10	-0.422432468	ARHGEF11	1.34945E-06	0.792923011	lnc-AL359736.1-2	3.59E-09	0.400470083
SAMD12	5.95E-10	-0.510753045	ACTB	1.35937E-06	1.006322417	lnc-NUFIP2-1	3.65E-09	0.349968898
E2F3	6.08E-10	-0.358404988	NDST1	1.37587E-06	-0.59461833	HSD3B7	3.87E-09	-0.450703234
TMEM173	6.09E-10	-0.475876587	ZEB2	1.3929E-06	0.523998285	OMA1	3.87E-09	0.4123535
P3H4	6.33E-10	-0.460530356	lnc-IL12RB2-2	1.39496E-06	-0.45119698	SERPINE1	4.28E-09	-0.368393573
DYNC1H1	8.05E-10	-0.489905157	SNORA36A	1.43874E-06	-0.56896092	PLGRKT	4.47E-09	0.471983438
B3GALT1	8.08E-10	-0.458484283	OSGIN1	1.50762E-06	-0.79066595	TRUB1	4.63E-09	0.356709887
LOC101928979	8.55E-10	-0.644878812	METTL7A	1.51526E-06	1.058011513	PTGFRN	5.00E-09	-0.697131617
SBSN	8.78E-10	-0.352954211	ARAP3	1.56504E-06	0.688938027	NCF1	5.36E-09	-0.680391554
FAM63B	8.88E-10	-0.35016207	MPP1	1.59001E-06	0.473297079	MIR17HG	6.29E-09	0.3674784
LOC101928059	9.59E-10	0.589875303	ACSS2	1.75757E-06	-	LINC00205	6.55E-09	0.428626587
EVC	9.76E-10	-0.380886992	SNORA23	1.82246E-06	0.633215431	lnc-OSCAR-1	6.78E-09	0.354874962
PLEKHG3	1.00E-09	-0.769084126	RAB31	1.82434E-06	-0.86388126	ARHGEF35	6.78E-09	-0.334308932
GPR174	1.11E-09	0.397965877	FLOT1	1.82649E-06	-0.38923448	ELAC1	8.11E-09	0.349832492
ZNF101	1.25E-09	-0.349674079	LOC729506	1.85049E-06	0.68200713	ARRDC3	8.27E-09	0.533285983
SNORD45A	1.26E-09	0.382881544	CCDC88A	1.85901E-06	1.028460993	SF3B3	8.57E-09	0.409191975
SSH1	1.29E-09	-0.360535868	SNORD96B	1.91798E-06	-	SLC9A3R2	9.24E-09	-0.364575893
SNORD76	1.33E-09	0.625321346	HS3ST1	2.02854E-06	0.604000374	DNAJA2	9.37E-09	0.377415458
DHRS3	1.34E-09	0.732005397	XLOC_I2_001549	2.03832E-06	0.765252226	LOC100506411	9.39E-09	0.355170638
SNORA71D	1.41E-09	0.513033016	S100A8	2.09734E-06	0.684791662	ANKRD46	1.05E-08	0.351877194
DACH1	1.49E-09	0.537788903	LGALS1	2.29456E-06	0.55894667	PTPN6	1.12E-08	-0.447182801
WDR89	1.51E-09	0.375836136	STAB1	2.37772E-06	-	ZNF185	1.18E-08	-0.513739612
RNF208	1.57E-09	0.467065705	CD300C	2.40072E-06	1.483684206	SLX4	1.30E-08	-0.390776656
LRR8B	1.73E-09	0.363512789	lnc-CHTF8-2	2.41893E-06	0.785731053	ACTN4	1.31E-08	-0.473183705
PYGB	1.91E-09	-0.449837374	lnc-RAD23B-5	2.49251E-06	-	lnc-SLC35G3-1	1.40E-08	0.42189853
					1.861229474			
					0.999808229			
					0.828199196			
					0.697569031			
					0.909887393			
					0.73633629			

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RNASET2	1.91E-09	-0.36369804	VCAN	2.50699E-06	1.606834742	INPL1	1.53E-08	-0.33315333
NTMT1	1.92E-09	0.331595865	PDGFC	2.54166E-06	0.953477281	CD82	1.60E-08	-0.365182929
MAST4	2.05E-09	0.43193229	GAA	2.7688E-06	0.590829825	MRPS33	1.63E-08	0.332451963
PRKY	2.21E-09	-0.380257845	FAM230C	2.92263E-06	0.773623777	NOTCH1	1.69E-08	-0.330979989
SLCO3A1	2.34E-09	-0.335729434	IMMP2L	3.00829E-06	0.6258316	SYPL1	1.92E-08	0.333518814
H1FX	2.58E-09	0.587870664	LILRA6	3.02973E-06	-0.90013925	CFAP97	1.99E-08	0.430510366
GNAQ	2.62E-09	-0.395894097	SNORD15B	3.11509E-06	0.4472202	OS9	2.08E-08	-0.336542173
PTPRC	2.77E-09	-0.347473303	SNORD71	3.23573E-06	0.493462123	NAALADL2	2.08E-08	0.34634126
SMYD3	2.77E-09	0.334521326	LAIR1	3.25007E-06	0.752634534	C12orf29	2.27E-08	0.383748602
SNORD110	2.81E-09	0.645057888	SNORD59B	3.37704E-06	0.376718944	SNORA18	2.45E-08	0.360321638
ZNF831	2.85E-09	-0.502399041	SNORD37	3.43312E-06	0.401192354	FEN1	2.45E-08	0.484785608
SNORA63	3.02E-09	0.656181424	CCDC150	3.43312E-06	0.844267813	ANKRD32	2.50E-08	0.343282972
YBX3	3.23E-09	0.434735911	LILRB1	3.44321E-06	1.082121353	CMIP	2.71E-08	-0.348417152
GPR155	3.43E-09	-0.512195501	SNORD85	3.52254E-06	0.426096005	NUDT2	3.18E-08	0.33624252
LOC101927055	3.61E-09	0.33520482	LOC100131910	3.83109E-06	0.864791361	HECTD3	3.19E-08	-0.357643351
SEMA4D	3.75E-09	-0.370375262	ZSWIM4	3.91678E-06	0.547046049	TWISTNB	3.59E-08	0.444085527
SYNE2	3.79E-09	-0.397374052	CDRT15L2	3.91678E-06	1.089971093	SLC39A4	3.89E-08	-0.389507422
MIR4435-1HG	5.50E-09	-0.537849034	CSF1R	4.04006E-06	1.386381517	MPC2	4.05E-08	0.37827267
NUP35	5.51E-09	0.491571398	CD14	4.09512E-06	1.585512876	RNF19B	4.44E-08	-0.439644628
XRCC6BP1	6.05E-09	0.51541774	SNORD107	4.19787E-06	0.501430381	CCR2	4.57E-08	-1.159862488
ZSWIM8	6.39E-09	-0.374770023	SNORA11	4.24043E-06	0.569498206	FAM120A	4.65E-08	-0.338851903
MYO9B	6.60E-09	-0.528528268	LOC100506929	4.26572E-06	0.742806004	GTF2H2C_2	4.94E-08	0.406443312
UBASH3A	6.63E-09	0.417482885	LILRB2	4.26896E-06	1.188749379	CPOX	5.45E-08	0.393317134
SLC34A3	7.14E-09	0.382632058	TTC23	4.44341E-06	1.039188846	RASL10A	5.54E-08	-0.361195171
CTNNA1	7.14E-09	0.385003948	SLC8A1	4.50678E-06	0.782301889	ASL	5.60E-08	-0.383216054
Inc-DENND5A-1	7.28E-09	0.358868058	MPEG1	4.70206E-06	0.978718887	Inc-ARMC6-1	5.86E-08	0.461094445
Inc-GNA12-1	8.98E-09	-0.3987442	SNORD33	4.71811E-06	0.495013663	SNORA48	6.55E-08	0.404898501
CENPF	9.53E-09	-0.383402202	MED19	4.75501E-06	0.670549806	Inc-INTS1-1	7.14E-08	0.35514605
TMEM126A	9.53E-09	0.380812347	RAB33A	4.76661E-06	0.664338123	RELT	7.37E-08	-0.357832706
ZFAS1	9.55E-09	0.472914646	LILRA4	5.21404E-06	0.852556713	FES	9.35E-08	-0.477982572
POLR2K	9.83E-09	0.363930896	SNORD94	5.53407E-06	0.419860395	SNORD35B	9.38E-08	0.362570269
PSMD13	9.83E-09	0.400638332	Inc-JAG1-5	5.63112E-06	0.629451603	APOE	9.59E-08	-0.477847502
TRAF5	1.02E-08	-0.444036802	PLEKHO2	6.09984E-06	0.792925529	TMEM170B	1.02E-07	-0.405363814
F5	1.10E-08	-0.713780635	LRRC25	6.18611E-06	1.115006249	ZNF385A	1.06E-07	-0.420710889
PHF5A	1.15E-08	0.34539537	Inc-CADM2-5	6.19256E-06	0.608132373	PICALM	1.15E-07	-0.361135862
KIAA0040	1.22E-08	0.424850409	ALCAM	6.31909E-06	1.025273717	FLII	1.18E-07	-0.424406149
LOC101060091	1.40E-08	0.355324558	THBD	6.32466E-06	1.507159682	LINC00526	1.28E-07	0.445483649
ZNRD1	1.45E-08	0.39104681	LACC1	6.34635E-06	0.814104752	CTSH	1.28E-07	-0.793621713
SVIP	1.50E-08	0.375833614	Inc-ID4-2	6.37809E-06	0.671942866	SLC6A16	1.34E-07	-0.333835125
NXT1	1.52E-08	0.611508041	STARD13	6.45681E-06	0.613888369	TNFRSF21	1.45E-07	-0.734350645
RAPGEF1	1.62E-08	-0.363032028	A4GALT	6.9627E-06	0.640646892	SOCS2	1.59E-07	0.469959784
EMD	1.67E-08	0.333722501	CXCL1	6.99225E-06	1.926499599	ALOX5	1.64E-07	-0.816570636

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HIST2H2AC	1.84E-08	0.602188657	TYROBP	6.99225E-06	1.053589726	TMEM261	1.66E-07	0.341213458
STARD10	1.86E-08	0.360234824	LOC400958	6.99225E-06	1.476088439	Inc-ZNF2-1	1.87E-07	0.333927623
PTPRE	1.91E-08	-0.842699425	TGFBI	7.14234E-06	1.802548777	ZNF571	1.90E-07	0.488585536
SGMS1	1.94E-08	-0.569374966	Inc-CD300C-1	7.36814E-06	0.667496236	CST6	1.90E-07	-0.550035474
PIF1	2.12E-08	-0.477845381	MBOAT7	7.56183E-06	0.460270762	GAS2L1	2.02E-07	-0.409261824
Inc-PLEKHG6-1	2.15E-08	-0.549447634	SFRP1	7.72163E-06	0.517226438	EBLN2	2.19E-07	0.342412755
CASZ1	2.23E-08	0.451978364	TNFAIP2	7.99045E-06	1.551160914	RPS6KA1	2.24E-07	-0.354491203
SEL1L3	2.24E-08	-0.48900121	Inc-RPP30-2	8.12883E-06	1.450875693	F2RL1	2.24E-07	0.376792776
TMEM206	2.28E-08	-0.509559323	LOC102724446	8.16643E-06	0.550559626	RAD51C	2.41E-07	0.436446515
IL24	2.31E-08	-0.505371433	CLEC4A	8.75314E-06	0.898291077	NCOA4	2.44E-07	-0.41222283
PTPRJ	2.55E-08	-0.499988399	SNORD96A	8.81533E-06	0.621749144	PFN1	2.52E-07	-0.335369627
NPHS2	2.57E-08	0.63849535	SNORD38A	8.96808E-06	1.190890987	HIVEP3	2.56E-07	-0.383016439
RND1	2.66E-08	0.472212272	TOR4A	9.10875E-06	0.628388706	TST	2.63E-07	-0.860688556
Inc-TAF12-3	2.76E-08	0.595233621	MAGEB6	9.12793E-06	0.87529063	WDR33	2.86E-07	0.544354433
AGO4	2.77E-08	-0.348552047	Inc-TTL2-1	9.18864E-06	1.07119894	TNNT1	3.11E-07	-0.546673152
LINC00996	2.88E-08	-0.424628942	EEPD1	9.4539E-06	1.027138624	XLOC_I2_014711	3.21E-07	0.331378647
LMNB2	2.95E-08	0.442709263	P2RY10	1.04202E-05	0.378260021	GMIP	3.57E-07	-0.332668283
OGFOD1	3.13E-08	0.390092155	RNF135	1.05914E-05	-0.58008632	STXBP2	3.61E-07	-0.360385812
PRKX	3.37E-08	-0.351068851	DUSP6	1.07612E-05	1.523467338	Inc-TBX3-3	3.88E-07	0.616125161
SERPINB6	3.68E-08	-0.476989809	SNORA81	1.11716E-05	0.682501696	TP53I3	4.33E-07	-0.498186649
FGFR1OP2	3.68E-08	-0.341183849	INHBA-AS1	1.12368E-05	1.152578525	GLB1	4.67E-07	-0.364108504
ITGB1BP1	3.74E-08	-0.351761162	HK3	1.12556E-05	0.723907796	TGM6	4.82E-07	0.446472196
SNORD104	3.81E-08	0.498318712	DSE	1.14518E-05	0.917434649	CAPN15	4.88E-07	-0.384957156
HNRNPC	4.04E-08	0.350235744	BEST1	1.14518E-05	-0.66186754	ITGB5	5.05E-07	-0.47848355
ADCY7	4.11E-08	-0.506139506	FAM129B	1.18472E-05	1.291727333	FAM167A-AS1	5.17E-07	0.443920583
CMTM3	4.11E-08	-0.382313535	CCDC183-AS1	1.19888E-05	0.514770672	A2M	5.30E-07	-0.444704916
NUP54	4.12E-08	0.353788053	SCARNA4	1.19888E-05	0.545211295	B4GALT1	6.51E-07	-0.349279248
Inc-TC2N-1	4.31E-08	-0.504115025	LOC102724406	1.20587E-05	0.903783155	LAYN	6.91E-07	0.61023768
DLK2	4.50E-08	0.409919155	FAM155A-IT1	1.20874E-05	1.427077811	XLOC_I2_006789	6.91E-07	-0.679506772
GRAMD4	4.52E-08	-0.435561066	CHD5	1.21012E-05	0.591769803	PAQR8	6.98E-07	0.415537146
Inc-EPHA6-1	4.52E-08	0.554788553	LHFP	1.27718E-05	0.532370213	ZYX	7.16E-07	-0.478657751
GSR	4.55E-08	-0.476910423	PDPN	1.32794E-05	0.593654087	CALCRL	7.32E-07	-0.347861605
SNCB	4.55E-08	0.609408396	S100A12	1.33029E-05	1.424400366	MICALL2	7.78E-07	-0.601965548
DDHD1	4.70E-08	0.423011826	ITGAM	1.33869E-05	0.798099045	SH2D1A	7.85E-07	0.415135595
LIMS2	4.80E-08	-0.419946119	TEF	1.35207E-05	0.936508356	Inc-C17orf63-1	8.01E-07	0.412918612
SLC5A6	4.81E-08	0.452928258	FCN1	0.000013528	1.288000224	KLHL25	8.28E-07	0.4095735
HIP1	5.06E-08	-0.330145341	CALCA	1.36217E-05	0.52908443	HLA-DPA1	8.35E-07	-0.79655041
FAM24B	5.08E-08	0.507884754	SNORD25	1.36388E-05	0.518539824	DOCK10	8.56E-07	-0.359260761
ZNF720	5.19E-08	0.43146635	SNORD22	1.36433E-05	0.445445702	FAM172BP	8.57E-07	0.44576836
TRAT1	5.28E-08	0.517464733	LOC100130950	1.37311E-05	1.103747171	FAM69B	8.60E-07	-0.338893244
YEATS4	5.34E-08	0.500304155	ENG	1.43948E-05	0.915468816	GPR17	8.63E-07	0.528960966
GLMP	5.50E-08	-0.337931258	SLC7A11-AS1	1.45962E-05	0.638599378	DOT1L	8.78E-07	-0.368234537
SNURF	5.52E-08	0.356818021	SMARCA4	1.46907E-05	1.288323003	RRM1	9.02E-07	0.379112029

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CREB3L2	5.80E-08	-0.348528768	Inc-APPL2-1	1.56371E-05	0.909920799	NADSYN1	9.47E-07	-0.384783659
LOC255177	6.07E-08	0.579311921	MCEMP1	1.56705E-05	-	tammi.41	9.62E-07	0.408410735
HIST1H2AB	6.31E-08	0.441974324	HOMER3	1.56897E-05	1.224792399	LOC100996255	1.01E-06	0.33712164
LOC100506922	6.65E-08	0.644048694	LOC102724481	1.58277E-05	0.643559432	SAYSD1	1.12E-06	0.335566449
KCNJ18	6.66E-08	0.487528317	Inc-HNF1A-1	1.61008E-05	1.394720821	Inc-ZBTB25-2	1.22E-06	0.491949061
RNF213	7.42E-08	-0.390387747	SUSD1	1.61281E-05	-	PRAM1	1.22E-06	-0.530314066
ZNF256	7.56E-08	0.440637078	MKNK1	1.64914E-05	-	S1PR1	1.38E-06	0.348093095
COPS3	7.68E-08	0.377946807	POMC	1.64914E-05	0.424922996	TLR1	1.42E-06	-0.735746489
GDF15	7.73E-08	-0.644731567	SNORA55	1.72947E-05	0.426034382	LOC102725470	1.50E-06	0.35034984
ACVR1	7.85E-08	-0.473515577	SLC16A5	1.72992E-05	-	CD9	1.51E-06	-0.761539508
S1PR2	7.85E-08	0.413956371	Inc-SDIM1-1	1.76816E-05	0.595187006	SPRY2	1.56E-06	-0.498141068
YIPF5	8.07E-08	0.362099991	SKAP2	1.80346E-05	1.012914922	CD300LF	1.58E-06	-0.523386758
ARL8A	8.17E-08	-0.343405242	SNORA38B	0.000018169	0.691200993	ARRB2	1.63E-06	-0.400887177
Inc-AAAS-1	8.26E-08	-0.482489943	C4orf51	1.82624E-05	0.507628732	POGLUT1	1.66E-06	0.332355617
TNFSF8	8.39E-08	-0.334375362	CTNNA1	1.87408E-05	1.069520569	COA1	1.66E-06	0.343628964
SNORD88C	8.63E-08	0.357150046	SNORA11C	0.000018822	0.717977719	MMADHC	1.71E-06	0.36347504
MEGF9	8.65E-08	-0.350512769	MAFB	1.88845E-05	0.465161192	NT5DC2	1.78E-06	-0.4728279
GCLC	8.89E-08	-0.593974974	PLIN3	1.91547E-05	-	TRPS1	1.78E-06	-0.417113438
HAPLN3	9.49E-08	0.517290119	DZANK1	1.91547E-05	0.436989008	MTSS1	1.79E-06	-0.526530997
SEC23B	9.70E-08	0.380732372	MAPKAPK3	2.00966E-05	0.583635266	CRBN	1.82E-06	0.374962364
SLFN11	1.03E-07	-0.535483399	SIGLEC9	2.09141E-05	-	SLC26A6	2.06E-06	-0.39579954
PRMT2	1.04E-07	-0.394862788	FTO	2.16022E-05	0.527263992	LOC101927755	2.07E-06	0.378545446
HILPDA	1.04E-07	0.422374198	SULF2	2.27177E-05	0.390880424	Inc-ULBP3-1	2.07E-06	0.705655152
RPS6KA5	1.07E-07	-0.359063214	SLC43A2	2.40789E-05	-0.8277786	MYO1G	2.21E-06	-0.584947176
BPGM	1.08E-07	0.396832142	APLP2	2.40789E-05	1.024509685	ZMYND15	2.21E-06	-0.581095594
CALR	1.09E-07	-0.384914515	Inc-SOX6-1	2.42037E-05	0.602416011	HYAL2	2.30E-06	-0.448142231
Inc-PIK3CG-2	1.09E-07	0.489658403	Inc-HMCN1-2	2.52669E-05	1.351116484	DYNLL1	2.54E-06	-0.367655412
PREX1	1.09E-07	-0.647502593	Inc-SMAD6-1	2.53576E-05	1.339440046	HLA-DMB	2.64E-06	-0.643621548
MVK	1.17E-07	0.735059549	NAB2	2.57496E-05	0.798643196	MFSD7	2.72E-06	-0.550061886
TMEM120A	1.20E-07	0.639655314	Inc-LRRC10-1	2.62023E-05	-	HLA-DMA	2.82E-06	-0.545204706
SLC22A15	1.24E-07	-0.482358722	GPR84	2.73806E-05	1.031241114	PYGL	2.83E-06	-0.575227818
ANXA1	1.28E-07	-0.691268044	FCGR2A	2.76364E-05	-	ZMIZ1	2.97E-06	-0.517157807
HEBP1	1.30E-07	-0.751636594	BAI1	2.76364E-05	0.887988181	SNORA2B	2.97E-06	0.432186712
SLFN13	1.31E-07	-0.477117889	LOC101927882	2.80464E-05	0.588191258	CEBPA	3.00E-06	-0.709119778
BIN1	1.32E-07	-0.373192323	EPB41L3	2.82118E-05	0.650031455	TMEM132A	3.05E-06	-0.484795114
SNHG16	1.35E-07	0.378810247	SNORD90	0.000028458	1.027228901	ARHGAP27	3.23E-06	-0.347568284
RIBC2	1.39E-07	0.392300194	XLOC_I2_015529	2.86822E-05	0.414181809	UAP1L1	3.61E-06	-0.338225965
GPR137	1.40E-07	0.439055722	HCK	2.91687E-05	0.614776876	Inc-HES1-2	3.67E-06	0.354191756
PRKAB2	1.42E-07	-0.408174778	TRIB1	2.99013E-05	-	HLA-C	3.69E-06	-0.466648577
SP4	1.42E-07	0.449188842	DOCK4-AS1	3.12008E-05	0.886339556	H2AFY	3.82E-06	-0.353032024
TBC1D2B	1.46E-07	-0.476555084	RHOU	0.000031207	0.867744754	XLOC_I2_010082	3.83E-06	-0.449571062
					-0.89547725			

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ZNF529	1.48E-07	0.422720988	IFI30	0.000032214	-	TMEM42	3.87E-06	0.361045227
SH2D3A	1.48E-07	0.672031932	HERC2P9	3.23875E-05	1.174711563	VENTX	3.95E-06	-0.363247869
YAF2	1.49E-07	0.457945997	SIRPA	3.24101E-05	0.545581926	SLC39A13	3.95E-06	-0.352754915
TRIM16L	1.55E-07	-0.472157271	ITGB1	3.30722E-05	1.243398825	ITM2A	3.95E-06	0.405764315
ACVR2A	1.57E-07	-0.385012245	Inc-CXCL2-1	3.33651E-05	-	PALLD	4.02E-06	-0.478665881
B4GALT4	1.58E-07	0.412716408	VPS18	3.33651E-05	0.599942375	VASH1	4.12E-06	-0.357175511
CPQ	1.62E-07	-0.418724748	EMR2	3.40498E-05	1.275461633	SNORA25	4.12E-06	0.390887237
HNRNPLL	1.62E-07	-0.37974352	ATP6V0B	3.41328E-05	-	RRAGB	4.16E-06	0.330365614
IL10RA	1.62E-07	-0.341208278	MGLL	3.43943E-05	1.065425052	FGD4	4.32E-06	-0.353522236
Inc-CNTLN-2	1.67E-07	0.333950065	LOC101927979	3.44839E-05	0.474040589	LINC00919	4.41E-06	0.345037175
PLCG2	1.68E-07	-0.485036077	CCDC66	3.47499E-05	0.824360792	ZBTB32	4.52E-06	0.636277655
LOC100130520	1.71E-07	0.344757968	XLOC_I2_004385	3.52659E-05	0.909734226	ALDOA	4.54E-06	-0.43520662
IL27RA	1.71E-07	0.4580565	TIMP1	3.56456E-05	1.121976722	CD28	4.69E-06	0.342484028
GNPTG	1.73E-07	-0.35059934	SLC37A2	0.000035682	0.819801984	ASTN2	4.72E-06	-0.349658177
ND4L	1.76E-07	0.81631773	PWRN1	0.000035682	0.680461686	MAN2B1	4.81E-06	-0.407752943
AIFM2	1.81E-07	-0.41533274	CCNT2-AS1	3.57065E-05	1.39838428	TNIP1	4.98E-06	-0.355629828
SNORA45A	1.89E-07	0.545368098	ANPEP	0.000036015	0.668652439	FLG	4.98E-06	0.404805341
ABCC5	1.89E-07	-0.440996883	Inc-SSPN-2	3.60549E-05	1.077439179	NT5E	5.12E-06	0.3319808
TMTC4	1.90E-07	-0.42181495	CASP1	3.61591E-05	0.903471942	Inc-KCNA5-3	5.15E-06	0.540800062
GIMAP6	1.96E-07	-0.432500444	SLC22A4	3.62039E-05	1.220482661	Inc-PAPOLG-1	5.19E-06	0.481655401
EAPP	1.96E-07	0.354604288	XLOC_I2_015478	3.73738E-05	0.511460425	DHX58	5.19E-06	0.475404825
LINC00565	2.00E-07	-0.448933954	AHRR	3.73738E-05	-0.63389863	MXD1	5.54E-06	-0.466833337
PNRC1	2.04E-07	0.410995748	RBM47	3.74319E-05	0.666096623	TTC32	5.57E-06	0.361835921
ILKAP	2.10E-07	0.393052756	Inc-TCL1B-2	3.74319E-05	0.692521268	RHOC	5.60E-06	-0.399272533
Inc-MFAP4-1	2.10E-07	0.540500419	NLRP12	3.75295E-05	0.680132957	ZBTB21	5.61E-06	0.35581562
KIAA1109	2.14E-07	-0.351728993	ASCL2	3.75317E-05	0.571113417	INAFM2	5.65E-06	-0.501589066
DLEC1	2.16E-07	-0.380723992	SNORD29	3.76007E-05	0.551572588	CHMP4B	5.93E-06	-0.365219072
CYTB	2.19E-07	0.53722435	FCGRT	3.83117E-05	0.474467635	Inc-AL035696.1-4	5.97E-06	-0.334998967
ADAM15	2.25E-07	-0.355487621	Inc-MFSD9-4	3.94291E-05	0.720688205	TMEM52	5.99E-06	0.337180459
FBXL16	2.27E-07	-0.518655119	CECR1	3.96963E-05	1.291519516	LGMN	6.15E-06	-0.358465632
SNORD34	2.30E-07	0.471499494	SNORD26	3.98181E-05	0.612770126	XLOC_I2_012953	6.29E-06	-0.40301438
GTPBP8	2.30E-07	0.605047378	SNORD97	3.98979E-05	0.448773017	ABCC3	6.42E-06	-0.564938544
CAPRIN2	2.31E-07	-0.342190114	SNORD10	4.00229E-05	0.475215691	MT1X	6.42E-06	0.338510187
LOC100132741	2.36E-07	-0.347812547	LOC100129455	4.00302E-05	0.352847976	INF2	6.57E-06	-0.456429845
C4orf33	2.37E-07	0.488350741	SNORD27	4.00302E-05	0.414692788	SLC4A2	6.66E-06	-0.354817779
NDE1	2.44E-07	0.460176037	CSF3R	4.04939E-05	0.439877482	SNCA	6.75E-06	-0.832950784
BRI3	2.76E-07	-0.409979535	CTSB	4.05009E-05	0.751234905	OR2A9P	6.92E-06	-0.427134699
HDAC10	2.77E-07	-0.335244417	CLEC5A	4.05252E-05	0.874546894	ACTBL2	6.92E-06	-0.40623477
Inc-ALOX12B-1	2.83E-07	0.36998277	RNU12	4.12005E-05	-1.16122672	PPP1R14A	7.04E-06	0.400155434
CHMP7	2.88E-07	0.413420995	CTSD	4.22972E-05	0.455427208	CAPN1	7.12E-06	-0.354797843
					0.690050959			

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HIST1H2BF	3.00E-07	0.487241882	CARD16	4.33364E-05	-	SLC25A34	7.28E-06	-0.4031354
ACACB	3.11E-07	-0.396100014	FAM162A	4.36457E-05	0.924112643	LCP1	7.36E-06	-0.475368371
NUMB	3.16E-07	-0.543637278	Inc-SUPT3H-1	4.37355E-05	0.358209704	MARCKSL1	7.39E-06	-0.48212493
SNORD32A	3.27E-07	0.454307867	LILRA2	4.43435E-05	-	TMEM30B	7.55E-06	0.375591883
PEG3	3.28E-07	0.602296089	GRINA	4.45805E-05	0.649066616	NCF4	7.59E-06	-0.434331122
CTSC	3.30E-07	-0.369284368	MAPT-AS1	4.45805E-05	0.625653133	OSCAR	7.82E-06	-0.494435415
Inc-CALHM3-2	3.33E-07	0.348646193	JDP2	4.47078E-05	-	BEX5	8.18E-06	0.492167702
IL6R	3.41E-07	-0.369856448	Inc-SLC15A4-2	4.47368E-05	0.697263893	BCKDK	8.59E-06	-0.414039695
SDC1	3.45E-07	-0.481211722	CYBB	4.51614E-05	0.416758781	PIK3AP1	8.70E-06	-0.506870203
MRPL49	3.53E-07	0.357813086	TLR4	0.000045647	-	BTB	8.71E-06	-0.479659914
SLC35E3	3.54E-07	-0.406971332	Inc-DAAM2-1	4.68991E-05	0.983660993	GAS2L1P2	8.85E-06	-0.3548806
SNORA20	3.56E-07	0.457031466	LOC100996286	0.000047222	0.701844886	GATA3	9.39E-06	0.418556661
MET	3.62E-07	-1.505292016	SNORD6	4.77771E-05	0.561047194	ODF3B	9.67E-06	-0.344999856
ASH1L-AS1	3.78E-07	0.401282973	FPR1	4.91477E-05	0.573054841	IRAK1	9.82E-06	-0.428433784
SNHG15	3.78E-07	0.485680297	MYCL	4.95618E-05	-	SMOX	9.85E-06	-0.438782145
LOC441268	3.82E-07	-0.366075482	CYBA	5.18239E-05	1.173677319	CAMKK2	1.02E-05	-0.412637751
TTC38	3.91E-07	-0.34655377	CXCL2	5.21971E-05	0.658217487	COL7A1	1.06E-05	-0.580156226
MMP24-AS1	3.92E-07	-0.33254304	XRR1A	5.24941E-05	-	CST5	1.08E-05	-0.762743883
SNORA40	4.19E-07	0.330271376	SNORD95	5.30705E-05	1.317193847	ZNF721	1.18E-05	0.4085244
CASP4	4.31E-07	-0.590499292	CD86	0.00005315	0.544261052	WNT2B	1.21E-05	0.504484464
SNORD3B-1	4.45E-07	0.463733821	PCAT4	5.34878E-05	0.443578083	TRIP6	1.30E-05	-0.385142282
DNAL1	4.47E-07	0.384845438	SLC51B	0.000053536	1.281456643	NFKBID	1.31E-05	-0.409569613
Inc-AKT3-2	4.64E-07	0.464770264	GPR179	5.37652E-05	0.606407754	BEX1	1.42E-05	0.407824702
DENND2D	4.70E-07	-0.390536187	NDP	5.39554E-05	1.259161014	MPST	1.45E-05	-0.355140334
C9orf89	4.79E-07	-0.37379282	REP15	5.41191E-05	1.277841801	Inc-CDC25B-1	1.52E-05	0.411422116
MESDC1	4.82E-07	-0.344508956	CLMN	5.43516E-05	0.74318655	SSPN	1.58E-05	-0.35280847
LOC102725407	4.83E-07	-0.330398603	Inc-ATP1B3-2	0.000055093	1.367243574	LOC100129034	1.60E-05	-0.441082273
GM2A	4.87E-07	-0.402094009	KLHL23	5.53752E-05	0.439059163	Inc-CTSL1-1	1.67E-05	-0.408625571
PATL1	4.87E-07	0.346566818	PVRL2	5.64129E-05	1.015024775	SNHG22	1.77E-05	0.400365112
NR1D1	4.91E-07	0.514313888	VDR	5.65162E-05	0.914087839	GSN	1.79E-05	-0.446870397
SNORD56	4.97E-07	0.402288864	TMEM45B	5.65358E-05	-	ZNHIT3	1.85E-05	0.364143395
JAKMIP2	4.98E-07	-0.824291039	GRN	0.000057431	0.613056631	SH2B2	2.02E-05	-0.423610282
SORL1	5.06E-07	-0.376627799	LILRB3	5.75148E-05	-0.7885018	ATXN3L	2.13E-05	0.519750305
CLIC5	5.10E-07	-0.465055279	SNORA21	5.90795E-05	1.062155547	Inc-GALC-3	2.33E-05	0.389475305
TSHZ3	5.26E-07	-0.389344882	SNORD21	0.000059839	0.561363523	CATSPER1	2.37E-05	-0.398361547
HIST1H2AG	5.43E-07	0.38772857	FERMT3	5.99327E-05	0.365126854	IQSEC2	2.38E-05	-0.497764844
SNORA61	5.73E-07	0.449987208	RUFY4	6.03826E-05	-	PKD2	2.49E-05	-0.351210721
FLJ36848	5.86E-07	0.330121272	XLOC_I2_000339	6.03948E-05	0.496747108	PPP1R12C	2.51E-05	-0.404025437
XLOC_I2_001331	5.87E-07	0.335890174	Inc-ENTHD1-1	6.08644E-05	0.654706534	MRPL1	2.54E-05	0.338777196
HIST1H4H	6.09E-07	0.411809558	S100A11	0.000061924	1.169581704	PRKCD	2.56E-05	-0.349161701
USP37	6.33E-07	0.37616404	SYK	6.19589E-05	-	SNORA49	2.59E-05	0.350756429
LOC403323	6.33E-07	0.430148603	LTBR	6.28502E-05	0.754855511	NEIL1	2.66E-05	-0.569817215
					0.523209567			

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SNORA64	6.33E-07	0.53469385	ADAP1	6.28763E-05	0.564637497	HVCN1	2.67E-05	-0.436760895
EFNA1	6.57E-07	0.602022364	HBEGF	6.39773E-05	0.677345594	SDS	2.68E-05	-0.687713218
LOC100129550	6.79E-07	-0.374696608	PTPN12	6.44466E-05	-0.79014389	PEA15	2.73E-05	-0.532571664
TBC1D2	6.85E-07	-0.743437327	Inc-FUT8-1	6.44466E-05	1.343544468	MCEE	2.74E-05	0.420211701
SNORD31	6.85E-07	0.517896014	RXRA	6.52367E-05	-0.61100749	NOTCH3	2.76E-05	-0.412721622
CLEC2B	6.85E-07	-0.575969341	FCGR2C	6.67902E-05	0.999828557	ST14	2.84E-05	-0.383886551
CRB3	6.89E-07	0.380780727	TMEM51	6.81511E-05	1.234943965	C8orf60	2.95E-05	-0.331636038
TEX10	6.99E-07	0.354087365	CD93	6.87302E-05	1.118928896	GCC2	3.12E-05	0.564547588
PVR	7.18E-07	-0.344559894	LTA	6.91173E-05	0.377307963	LOC101928617	3.25E-05	0.369676166
RMRP	7.36E-07	0.724171246	VEGFA	7.00661E-05	0.800718854	P2RY1	3.31E-05	-0.347600461
C12orf65	7.38E-07	0.510321584	LYN	0.000070851	0.742539708	ACADVL	3.46E-05	-0.490954473
LPGAT1	7.60E-07	-0.397664425	TEX12	7.09858E-05	0.80343037	GLMN	3.85E-05	0.352949123
SNORD48	7.71E-07	0.507659078	TRIO	7.31455E-05	0.446069803	POTEI	4.40E-05	-0.462289504
SGK3	7.73E-07	-0.450802375	GAPT	7.36406E-05	-0.67511709	SNX8	4.56E-05	-0.382640757
RELA	7.81E-07	0.336942599	SLC11A1	7.37398E-05	0.642424495	VMO1	4.70E-05	-0.825484022
CYSLTR1	8.00E-07	0.348500387	LOC441081	7.45489E-05	0.571516607	LRRK2	4.72E-05	-0.418202926
XYLT1	8.07E-07	-0.340627631	LIMS3L	0.000074752	0.878981743	HNMT	4.80E-05	-0.443644541
TOE1	8.09E-07	0.40682869	IER3	7.71022E-05	0.943417853	CDK14	4.84E-05	-0.576419844
DDX47	8.10E-07	0.389060018	FCER1G	7.91513E-05	0.556139276	CTSA	4.98E-05	-0.435903781
SLC4A7	8.31E-07	-0.337520768	Inc-ODZ4-2	8.18463E-05	1.09723668	VASP	5.22E-05	-0.421147565
MEI1	8.54E-07	-0.390769048	VSIG10	8.20396E-05	0.666004837	LEPROT	5.31E-05	-0.332915462
Inc-N4BP2-1	9.42E-07	-0.335868675	CPVL	8.28505E-05	0.882333055	IL1R2	5.35E-05	-0.866870622
CDR2	9.50E-07	0.407067971	JARID2	8.31056E-05	0.490309778	ASIC4	5.39E-05	-0.353184565
LOC102723648	9.63E-07	0.348569835	SCOC-AS1	0.000083493	1.156897564	RAB32	5.41E-05	-0.516323734
HIST1H3J	9.64E-07	0.35989208	LOC100130899	8.36912E-05	0.357492684	MYO15B	5.48E-05	-0.342319304
RPS6KB1	9.70E-07	0.357735456	TNFRSF1A	8.37149E-05	0.456618376	CST3	5.48E-05	-0.464134985
TNFRSF17	9.83E-07	-0.448183393	FAM160A1	8.43058E-05	0.343988488	DIRC2	5.50E-05	-0.331996817
ATP13A3	1.03E-06	-0.697188654	PID1	8.50802E-05	1.357455539	LAPTM5	5.65E-05	-0.338828278
SESN1	1.05E-06	0.338509391	HIST1H1C	8.55043E-05	0.420460724	SNORD43	5.80E-05	0.360571148
TPRN	1.09E-06	0.404250752	SLC23A2	0.000088819	0.337322849	ADAM17	5.85E-05	-0.357266681
SETD9	1.12E-06	0.530337688	PGD	0.000089172	0.620514097	GOPC	5.91E-05	0.393299232
LINC01003	1.14E-06	0.375938875	RTKN	0.000089825	0.705658766	LINC01016	6.24E-05	0.393398262
NPAT	1.15E-06	0.437270673	LRRC2	9.17674E-05	0.587225375	LINC00331	6.41E-05	0.396993281
LOC100506548	1.16E-06	-0.376530155	EGR3	9.35776E-05	0.575868045	LINC00853	6.45E-05	-0.35908896
SNHG17	1.20E-06	0.533825002	XLOC_I2_013192	9.36653E-05	0.461585431	PTGIR	6.65E-05	-0.517192188
CDC16	1.22E-06	-0.335910506	NOD2	9.50123E-05	0.856803532	HLA-DPB1	7.01E-05	-0.546111111
ZNF503	1.28E-06	-0.41174258	XLOC_I2_006101	9.57316E-05	1.104896925	GBP2	7.09E-05	-0.333343046
MATN1-AS1	1.29E-06	0.376187543	LOC101927757	9.58389E-05	0.889527186	TTC27	7.13E-05	0.355526109
CMSS1	1.30E-06	0.767941533	CSTA	9.98402E-05	0.778106585	CLEC7A	7.28E-05	-0.51803025
KRTAP19-8	1.35E-06	0.380802556	Inc-METAP1-3	0.000100655	0.527546938	RNASEK	7.39E-05	-0.395389846
HIST1H2BN	1.36E-06	0.42348213	FUCA1	0.000100771	1.150440509	TTYH3	7.40E-05	-0.52417858

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HIST1H4E	1.55E-06	0.658311122	CYP1B1	0.000100872	1.388862497	CCL5	7.81E-05	-0.678619876
PFKM	1.56E-06	0.421940881	SPINK1	0.000101841	1.146202661	MYOF	7.97E-05	-0.463332188
TBK1	1.59E-06	-0.530749594	LOC101928054	0.000102258	0.335809436	RGL2	8.01E-05	-0.386676808
HCG22	1.59E-06	0.349453137	LILRB4	0.000102704	-0.73087944	ZCCHC13	8.19E-05	0.419893408
ERF	1.69E-06	0.480764397	Inc-TAF9-2	0.000104762	0.394994327	ELOVL1	8.20E-05	-0.379427504
FAM43A	1.73E-06	-0.437545365	SDC4	0.000105275	0.516117266	Inc-CERK-1	8.98E-05	0.417566739
NOC3L	1.76E-06	0.444315915	Inc-MAP2K6-2	0.000105671	1.220290812	PRL	9.12E-05	-0.404894708
ZNF497	1.78E-06	0.371655611	ITPRIPL2	0.000105938	-0.70431534	GPR160	9.24E-05	-0.411877223
HIST1H1E	1.89E-06	0.468679554	P2RX4	0.000106383	0.698620123	TMEM121	9.54E-05	0.365495334
ARL17B	1.95E-06	0.381764191	ATP6AP1	0.000106433	0.348889787	ANKRD65	9.96E-05	0.478226981
Inc-TMEM206-4	2.02E-06	0.35482192	CXCL16	0.000107826	0.622809654	LOC102723473	0.000104027	0.390362652
ASB2	2.02E-06	-0.342097232	Inc-TMEM50B-1	0.000107826	0.488510128	ZNF184	0.000104933	0.415356141
RADIL	2.10E-06	-0.612116835	LMO2	0.000109731	0.920740902	TMEM106A	0.000106711	-0.442512284
IGLL1	2.10E-06	-0.353163592	HCAR3	0.000110334	1.235068184	XLOC_I2_004840	0.000111035	-0.447530822
TRAF4	2.13E-06	0.467118922	HTR7	0.00011118	0.567410256	GAB2	0.000113065	-0.432567682
ZBED3	2.14E-06	0.404806604	CASC15	0.000113342	0.652343246	ARHGAP18	0.000118258	-0.521178135
SYNM	2.19E-06	-0.613581297	SNORD89	0.000114004	0.492480553	SMIM5	0.000118277	-0.366573603
ABCG1	2.28E-06	-0.494425913	Inc-TPBG-2	0.000114669	0.791791627	ACTN1	0.000118708	-0.354834771
LZTS3	2.29E-06	0.380547771	CSF2RA	0.000115735	0.751179694	HLA-B	0.000121949	-0.649094264
SELM	2.32E-06	0.354350836	SNORD99	0.00011578	0.33570542	DYTN	0.000123912	0.332142535
PRKRA	2.32E-06	0.501317931	RAP1GAP	0.000116365	1.215258284	FAM63A	0.000125115	-0.444904642
ARG2	2.35E-06	0.566730092	PPP6R1	0.000118719	1.230503013	MGAT4A	0.00012742	0.330115101
TRAF1	2.37E-06	0.379642954	PLXND1	0.000123732	0.733325385	RUFY1	0.000128667	-0.332901458
HNRNP2	2.38E-06	-0.375030647	ZNF620	0.000123732	0.451230939	CD79B	0.000129126	-0.465104395
Inc-FBXO25-3	2.38E-06	0.430422088	THBS1	0.000123838	1.276452281	SH3YL1	0.000132725	0.506194782
SUSD3	2.43E-06	-0.481189398	ITGAX	0.000125625	0.662289794	PLCB2	0.00013897	-0.373988672
PIK3IP1	2.58E-06	0.430124646	HAVCR2	0.000126147	0.562104472	PLAG1	0.000145505	0.419773691
DHCR7	2.65E-06	0.345644752	SNORD52	0.000127801	0.40271397	TNFRSF13C	0.000148828	-0.428282242
POLG2	2.65E-06	-0.404414579	RGAG4	0.000129348	0.622146755	FZD1	0.00015583	-0.370189012
RRAGD	2.67E-06	-0.38175752	SNORA68	0.000131464	0.472019559	CTBP2	0.000158263	-0.402248977
SNORD61	2.69E-06	0.363129	OR52E8	0.000131642	0.801487586	CTSK	0.000159962	-0.502636233
PIGV	2.71E-06	0.389567112	C4orf46	0.00013214	0.393149772	PKM	0.000160853	-0.395739822
Inc-ACRC-1	2.73E-06	-0.363128551	GPR68	0.000133621	0.671599855	GIMAP2	0.000161935	0.346361639
TOM1	2.77E-06	-0.385934516	PFKFB4	0.000137365	0.509829612	NDUFAF4	0.000163484	0.332099898
SCARNA2	3.01E-06	0.344600414	SLC25A37	0.000138148	0.468731694	RAB13	0.000163871	-0.476551525
WHAMM	3.01E-06	0.544294077	SNORA16A	0.0001395	0.361783138	POTEKP	0.000165275	-0.398141616
IL2RB	3.08E-06	-0.562461464	Inc-TNP1-2	0.000140752	1.228081645	MFSD1	0.000165382	-0.436057644
Inc-PITPNC1-1	3.14E-06	0.334015808	CYFIP1	0.000141815	-0.90379614	FSCN1	0.000175671	-0.656030649
DENND4A	3.17E-06	0.473511641	CARD17	0.000141943	0.732211343	SNORA75	0.000187896	0.341717663
GADD45B	3.23E-06	0.758856743	GRIK3	0.000143186	0.529287453	PDE3B	0.000192514	0.35356753
RALB	3.24E-06	-0.573949044	IFFO1	0.000145788	0.542513501	GNB4	0.000192931	-0.761924466

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SSBP2	3.28E-06	0.352713177	SLC15A3	0.000147271	-	LOC728975	0.000197019	-0.399130839
EPB41L4A-AS1	3.50E-06	0.368498396	Inc-DYDC1-4	0.000149813	0.857039426	OXNAD1	0.000200809	0.489391507
NIPSNAP3A	3.62E-06	-0.420167149	RASSF4	0.00015476	1.237645879	DENND5A	0.000202045	-0.460168337
SMIM3	3.69E-06	-0.487954501	CCL4L2	0.00015583	-	PARVB	0.000207981	-0.390921175
Inc-C15orf48-1	3.72E-06	-0.421921922	EZR-AS1	0.000155985	0.760584723	ARHGAP10	0.000222361	-0.344016526
TMEM217	3.74E-06	0.403432556	LINC01564	0.000156404	0.51505897	LRFN4	0.000228258	-0.353532905
ETS2	3.92E-06	-0.521581765	XLOC_I2_006821	0.000161957	1.212436987	NAGA	0.000232219	-0.407382967
RRAS2	3.96E-06	0.345545235	GPR182	0.000162295	-	RHBDF2	0.000232479	-0.395970956
GAS2L3	3.98E-06	-0.350832904	IGLL5	0.000164636	0.598518739	PTGS1	0.000238152	-0.549926335
HIST1H2AJ	3.98E-06	0.384064976	CXXC5	0.000169256	1.216744297	DCLRE1B	0.000244468	0.405281234
RORC	4.02E-06	-0.476075467	FCGR3A	0.000173089	-	HLA-DRB4	0.000248336	-0.593056146
ID4	4.03E-06	-0.44456294	SLC16A6	0.000178118	1.059938152	RIMS3	0.000248869	0.432727496
TIGIT	4.05E-06	-0.478147168	ALKBH3-AS1	0.000178157	-0.74787381	SNORA37	0.000249014	0.435404382
AP1S3	4.13E-06	0.370307916	FPR2	0.000178521	0.690196418	MATK	0.000258433	-0.425431145
MAF	4.16E-06	-0.437670747	Inc-WDR69-2	0.000180682	-0.49540871	ATP6V1F	0.000261601	-0.383473768
S100P	4.19E-06	-0.463896435	KCNE3	0.00018323	0.58920298	CD74	0.000269104	-0.413318278
ING2	4.27E-06	0.356383454	VRK2	0.000183999	-	ATF5	0.000275942	-0.523828032
PHF1	4.31E-06	0.35706359	LOC100507391	0.000185655	0.576182757	XLOC_I2_012847	0.000280471	-0.394605126
IL23A	4.31E-06	0.668590006	Inc-NPFFR2-2	0.000186722	0.588883769	ANKRD9	0.000287366	-0.359992482
EPHA4	4.42E-06	-0.473259559	LINC01534	0.000190763	0.3556481	Inc-GADD45G-5	0.000291608	0.413675181
SPINK2	4.47E-06	0.448629553	SDSL	0.00019354	0.540145539	CTTN	0.000294933	-0.705214812
IL32	4.52E-06	0.519925317	DHRS4L1	0.000193888	-	BACE1-AS	0.000311826	0.346989718
SAMSN1	4.58E-06	-0.362828877	MARVELD1	0.000196284	0.831867786	HLA-DRA	0.00032518	-0.508201885
HIST1H4I	4.71E-06	0.538664987	Inc-BTN3A2-1	0.00019668	1.207076094	LOC102724332	0.000330293	-0.522343624
Inc-HMBBOX1-1	4.72E-06	-0.337501689	CCR1	0.000197349	-	TUBB1	0.00033442	-0.857873804
NFKB2	4.75E-06	0.460830978	Inc-AC009365.3.1-1	0.000203572	1.417455907	HLA-DRB1	0.000337775	-0.523338885
SOWAHD	4.77E-06	-0.382090508	EGFR	0.000206433	0.967707999	YWHAG	0.00034372	-0.348047434
LINC00239	4.93E-06	-0.344532587	SNORD100	0.000209212	0.752344141	TSPYL4	0.000351579	0.405309493
NBPFF11	5.01E-06	-0.351764491	SNORA60	0.000209877	0.437404142	IDO1	0.00035263	-0.875859514
NID1	5.02E-06	-0.583881844	WDFY3	0.000210148	-	MERTK	0.000359153	-0.518558529
IFIH1	5.02E-06	0.359532039	QPCT	0.000213357	0.409277105	MYL9	0.000366205	-0.438738758
TRPV2	5.03E-06	-0.417915741	GGT8P	0.000214669	-	MID2	0.000382356	0.333454877
SGSH	5.26E-06	-0.431188649	PLA2G7	0.000220252	0.641155629	PDE2A	0.000413101	-0.404094041
SLC6A6	5.34E-06	-0.44847794	Inc-GNG8-1	0.000222919	-	NRGN	0.000423723	-0.789850377
NACC2	5.35E-06	-0.370137715	PIK3R5	0.000226083	1.552814715	POTEM	0.000433962	-0.371265167
ITGB8	5.51E-06	-0.918405842	Inc-PPP1R14D-1	0.000226401	0.992384717	ABHD6	0.000448752	-0.37237373
B9D2	5.55E-06	0.358250734	SNORD83A	0.000230139	0.662818424	WSB2	0.000483847	-0.395315655
CANX	5.78E-06	-0.35327714	P2RY6	0.000231411	0.807326092	DBH-AS1	0.000501376	-0.520492696
PNPLA7	5.79E-06	0.526747426	KCNJ15	0.000235132	0.348354324	WARS	0.000538089	-0.51908716
DEPDC7	5.80E-06	0.355038086	LINC01272	0.000241181	-	PSTPIP2	0.00054076	-0.377640381
LINC00923	6.18E-06	0.640597542	SNORD46	0.000242647	0.704945412	LOC101929756	0.000544897	-0.40084165
ND5	6.26E-06	0.549691354	STX17-AS1	0.000248869	0.413752473	SNORD83B	0.000559942	0.371225113
					0.503086373			

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KCNJ14	6.28E-06	0.354212341	S100A4	0.000252991	0.821673467	DNAJB5	0.000576457	-0.417041717
COX2	6.36E-06	0.545455195	OLR1	0.000253557	1.268927025	GNG11	0.000577562	-0.962429029
MFI2	6.59E-06	-0.473583973	GK3P	0.000254045	0.493872038	JAKMIP1	0.00057824	-0.454664187
SCARF1	6.61E-06	-0.404900744	SEMA6B	0.000256412	0.500404921	lnc-TRIM27-15	0.000582865	0.336654785
lnc-PCDH12-1	6.64E-06	0.474618228	KCNN4	0.000262121	0.337859298	MYL12A	0.000596178	-0.334651842
ANKRD20A5P	6.91E-06	0.342201293	CFP	0.000262588	0.828241431	FAM209A	0.000633252	0.353453696
JAG1	6.94E-06	-0.351187748	CA13	0.000273573	0.359111904	ARHGAP22	0.000638559	-0.403173207
RAD18	7.01E-06	0.45269984	MYO1E	0.000273619	0.557193192	BLK	0.00064132	-0.405148633
HIST2H2AB	7.03E-06	0.384576192	PROM2	0.000274943	1.101493321	FAM134B	0.00067225	0.402379372
SPCS3	7.06E-06	-0.358570401	CCR5	0.0002757	1.124680509	NETO2	0.000698256	-0.344028333
FXD6	7.22E-06	-0.379547563	PHLDA2	0.000275937	0.630681538	UBAP1L	0.000698907	-0.366551663
TNFRSF10D	7.78E-06	-0.352884329	FAM198B	0.000276237	1.052295576	PSMD5-AS1	0.000707086	0.342713205
lnc-LINC00346-2	7.80E-06	-0.398461873	SLC7A11	0.000276364	1.587124836	KCNJ2	0.000728908	-0.568138388
HACL1	7.81E-06	0.434635241	MRAS	0.000276632	0.667829359	CXCR2P1	0.000738833	-0.700383929
PNP	7.91E-06	-0.434160787	SWAP70	0.00028503	0.471503241	RHOQ	0.000743865	-0.344809883
CCDC58	7.94E-06	0.357533406	CXCL3	0.000287979	1.405920534	LOC101928143	0.00074741	-0.403861774
TRIM36	8.03E-06	-0.37026879	RNF150	0.000288147	0.983753885	LOC284581	0.000762798	-0.339047803
GFI1	8.28E-06	0.353202709	FTH1	0.000288207	0.606702248	SNORA34	0.000824194	0.42624684
LTB	8.29E-06	0.437749609	EMILIN2	0.000288827	1.007048242	CHST7	0.000827933	-0.514376871
IL1R1	8.49E-06	-0.486970196	SLC16A3	0.000293721	0.747816648	CENPK	0.000845656	-0.425845419
HIST1H2BH	8.63E-06	0.337950478	CCDC71L	0.000295167	0.479276775	EBI3	0.000866081	-0.522615437
RAPH1	8.69E-06	0.765001023	KCNMA1-AS1	0.000297954	1.137685598	ANO6	0.000875426	-0.365307784
NLN	8.80E-06	-0.532397811	RNF144B	0.00029961	0.592964094	PECAM1	0.000923192	-0.392169669
F12	9.16E-06	0.415048303	PPP1R1A	0.000300738	0.965505925	MYBPC3	0.001004137	-0.394122295
OGT	9.19E-06	-0.392883458	ALDH2	0.000303932	0.646467029	SLC43A3	0.001020652	-0.36823754
SNORA71B	9.23E-06	0.352021861	MARCO	0.000306218	0.867559921	GADD45A	0.001023409	0.370480989
CDKN2AIP	9.24E-06	0.418499323	HK2	0.000308171	0.674105251	RAMP1	0.001067349	-0.496588058
CENPJ	9.35E-06	-0.374079145	lnc-SNX24-1	0.000308909	1.057934951	SLC25A13	0.00114189	-0.377463702
ITPR1L1	9.42E-06	-0.338763318	lnc-RP11-201M22.1.1-2	0.000319853	1.107044988	ISG15	0.001253185	0.433338517
HIST1H2BC	9.64E-06	0.330666131	LOC101928894	0.000326157	1.156463477	CAPG	0.001345026	-0.488492367
ARHGAP31	9.72E-06	0.346421575	COG8	0.0003291	0.438282924	TRIM58	0.001500235	-0.737350823
RN7SK	9.77E-06	0.476874229	LOC100506257	0.000330293	0.339581449	ZNF516	0.001561368	-0.383738927
IL18RAP	1.00E-05	-0.745608471	XAGE-4	0.000330293	0.684136319	FTHL17	0.001571944	-0.337146038
IGSF22	1.04E-05	0.385801433	TIMP2	0.000331069	0.595626997	APOBEC3G	0.001586173	-0.437113566
CTSS	1.05E-05	-0.36593894	TBC1D12	0.000332868	-0.52488836	ACRBP	0.001657597	-0.757607427
TMEM243	1.07E-05	0.349804059	lnc-C14orf166-1	0.00033457	0.531106998	SDPR	0.001679769	-0.837783061
lnc-CS-1	1.08E-05	0.525743042	KRT79	0.000337159	1.089657528	LOC102724689	0.001705796	-0.471577264
LOC102723946	1.09E-05	-0.371510228	KANK2	0.000350652	0.415624388	FCRL3	0.001708313	-0.359103095

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CTSL	1.10E-05	-0.886316429	SEMA4A	0.000353283	-	SNORD12C	0.001712778	0.370543991
SPRY1	1.10E-05	0.359170059	LOC100505811	0.000357523	0.576517553	RASD1	0.002008008	0.379762439
GGH	1.11E-05	-0.339855304	ARHGEF40	0.000372275	-	NFE2	0.002071139	-0.60692854
TSPO	1.12E-05	-0.4076469	RNU4ATAC	0.000374145	0.674564432	RHBDL1	0.002071245	-0.357532166
LEF1-AS1	1.13E-05	0.441799408	SNORA28	0.000380539	0.353105739	lnc-FCRL3-1	0.002077495	-0.353891359
NKAP	1.14E-05	0.370376017	PILRA	0.000381672	0.540699005	lnc-C1orf201-2	0.00208763	0.332575427
SCARNA11	1.17E-05	0.689261155	DOCK4	0.000397504	-	PPBP	0.002110246	-0.839249685
CTSLP8	1.18E-05	-1.35379881	EMP1	0.000398774	0.856012697	S1PR3	0.002141435	-0.408516243
lnc-LSR-1	1.18E-05	0.38795715	NOL3	0.000401686	-	LOC101060038	0.002196224	0.416967247
RARA	1.20E-05	0.340048601	ACP5	0.000401909	0.519769179	CBR3	0.002214408	0.331241585
lnc-PLCD3-1	1.23E-05	0.381190995	LOC101927641	0.000413063	0.555518581	SLC7A5	0.002295695	-0.350487328
RAB20	1.24E-05	-0.456405136	PSAP	0.000417088	0.820377523	C2orf88	0.002318753	-0.489286034
SNORA70D	1.27E-05	-0.332116363	PTX3	0.000426789	-	GZMH	0.002348155	-0.801759644
ND2	1.36E-05	0.589622365	FGR	0.000430522	0.782291662	PTCRA	0.00253525	-0.576569777
NAPRT	1.38E-05	0.365754345	SNORD105B	0.000435758	0.895089857	MS4A4A	0.002574749	-0.522365205
GGTLC1	1.40E-05	-0.345245947	SLC7A7	0.000439602	0.847138246	MT2A	0.002636376	0.380334665
LAMA4	1.42E-05	0.358786764	TNF	0.000443422	-	MEF2C	0.002659723	-0.35471757
KLRB1	1.43E-05	-0.875150779	GNA15	0.000447907	0.537627307	ITGB3	0.002738776	-0.604831098
BEND5	1.46E-05	0.353001553	HIST1H1D	0.000456181	0.561495525	GFI1B	0.002806688	-0.362633336
APBB1	1.47E-05	0.382258318	TSPAN33	0.00045669	0.487324893	LOC102725284	0.002888272	-0.375027657
LOC643072	1.50E-05	-0.448730085	C15orf39	0.000463546	-	PRKAR2B	0.002912781	-0.717039521
LPAR6	1.51E-05	-0.563776704	OLIG1	0.000475938	0.489874032	MYLK	0.002986037	-0.419005193
GADD45G	1.54E-05	0.761373856	IL4I1	0.000482077	-	WFDC21P	0.00310211	-0.356428485
lnc-METAP1-2	1.55E-05	0.344035613	P2RX7	0.000482252	0.869478693	C3AR1	0.003142084	-0.431005039
LOC101929612	1.56E-05	0.558710688	SIPA1L2	0.000484387	-	HLA-DQB1	0.003303218	-0.576070765
ZNF157	1.56E-05	0.645694316	TREM1	0.000484401	0.616952419	LINC00926	0.003810124	-0.555712531
PAF1	1.58E-05	0.339374104	FNDC3B	0.000494387	-	HLA-DRB3	0.003901195	-0.501947063
HIST1H4F	1.59E-05	0.500376788	SNORD57	0.000505026	0.485162059	F13A1	0.003981404	-0.529095259
SSFA2	1.63E-05	-0.363184291	lnc-CGN-1	0.000519081	0.427461786	DOK3	0.004068037	-0.380071563
lnc-ARRDC3-1	1.72E-05	-0.48854475	SNORA65	0.000529956	0.381671377	IL15	0.004272725	-0.436999882
PPP1R3B	1.72E-05	-0.404289319	CLIC2	0.000544897	0.421054296	PDZK1IP1	0.004274331	-0.380845747
ND3	1.72E-05	0.4006012	IL3RA	0.000545859	-	KIAA0226L	0.004723401	-0.337494251
SNHG12	1.79E-05	0.592534072	lnc-BTG3-2	0.00055941	0.520094658	SLAMF8	0.005021747	-0.394471882
RASA4	1.82E-05	-0.38450501	TPM4	0.000560892	0.959427652	GBP5	0.005191293	-0.557864356
SH2D1B	1.86E-05	-1.168356781	SRMS	0.000564892	0.421232914	TRH	0.005214924	-0.355368493
RIMBP3	1.86E-05	-0.378442635	MAFF	0.000566532	-	PF4	0.005864933	-0.743602735
CYTH3	1.88E-05	-0.352026528	lnc-SNX18-1	0.000567404	0.696615406	NUAK1	0.005995149	-0.416055236
CAPN2	1.91E-05	-0.61041632	NCF2	0.000574432	-	CST7	0.006384512	-0.487888401
HIST1H3H	1.91E-05	0.37940551	lnc-GFRA2-1	0.000584245	1.002784218	VCL	0.006880505	-0.39904547
					1.028206646			

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SLC3A2	1.95E-05	-0.341795854	HPSE	0.000590122	-	ND6	0.007207287	0.427119762
CCDC102A	2.02E-05	0.593760851	SNORD67	0.000600253	0.770126591	ADTRP	0.007479336	0.338907757
ABHD17C	2.04E-05	-0.420867677	ACRC	0.0006057	-	LOC102724479	0.007893757	-0.34459614
CES1	2.06E-05	-0.38908847	LAD1	0.000609729	0.376988951	DDX11L16	0.007987394	-0.367042145
DUSP1	2.08E-05	-0.36633213	RGL1	0.000611447	0.519939751	AOAH	0.008178227	-0.339002194
SNRPA1	2.11E-05	0.371625997	ADM	0.000617628	-0.87851672	TPPP	0.008638259	0.352238694
TNFRSF4	2.21E-05	0.485136023	NFAM1	0.000617628	0.971446222	IFI44	0.008789375	0.440890937
GTF3C4	2.22E-05	0.330471285	PRDM1	0.000625024	-	DNASE1L3	0.008809374	-0.419411941
CENPC	2.28E-05	0.416573364	FAM156A	0.000626777	0.389165386	GLT1D1	0.008886605	-0.342905892
PRR5L	2.30E-05	-0.664159826	BICC1	0.000626777	-0.41780999	CLU	0.008958834	-0.491383315
TPMT	2.30E-05	-0.387026978	S100A9	0.000636887	0.987307121	CX3CR1	0.009082405	-0.474459826
RELB	2.33E-05	0.461304184	SNORD87	0.000644208	0.941999243	MT1E	0.009431304	0.368564274
HES4	2.40E-05	0.586003586	AGPAT2	0.000655063	0.465483608	KRT1	0.00948947	0.694031144
TPRA1	2.55E-05	-0.378346213	Inc-MUC20-2	0.000657389	-0.48096832	IFIT2	0.00953045	0.389281831
MNAT1	2.59E-05	0.383705372	ARHGEF10L	0.000660152	0.456761601	HLA-DQB2	0.010016328	-0.557721066
Inc-MYB-1	2.68E-05	0.412666583	Inc-SYCE1L-1	0.000668451	0.869163301	NPIP15	0.010260378	-0.337108096
GK	2.78E-05	-0.337391231	BCL2L2	0.000674939	0.44238535	EGR2	0.010562899	-0.333046888
PPFIBP2	2.79E-05	-0.414297732	RASAL1	0.000742153	-	NINJ1	0.010912112	-0.367992932
SAP30	2.88E-05	0.358070763	SNORD66	0.000743524	0.409864463	BANK1	0.010929084	-0.3472264
BCAS2	2.99E-05	0.496029566	CKAP4	0.00076108	0.663050543	CMTM5	0.012210623	-0.478810403
LATS2	3.12E-05	-0.456869469	RAB7B	0.000765459	-0.42721905	CD226	0.012383477	-0.382533706
VIPR1	3.16E-05	-0.347289908	CA2	0.000766651	0.488642345	CFD	0.012531708	-0.78801455
NFIL3	3.16E-05	-0.381637683	COX1	0.000767203	0.573884825	FABP5	0.012836582	-0.431429853
CDK5R1	3.20E-05	-0.402370861	NPC1	0.000775227	0.482020834	RGS18	0.013414455	-0.71522107
GABPB1	3.27E-05	0.338152023	DCANP1	0.000786777	-	SPIB	0.013900938	-0.342214045
FER	3.32E-05	0.337126524	KCTD12	0.000792488	0.457789538	DMTN	0.01577049	-0.371212503
HMOX1	3.39E-05	-1.16062501	CD151	0.000793707	0.639590323	ZNF683	0.016064339	-0.63768001
CD180	3.44E-05	-0.345148406	IL1B	0.000806116	-0.60158	LOC643802	0.017372763	0.414728358
IGFBP7	3.51E-05	-0.650538242	HIST1H4L	0.000806552	-1.65691692	TCL1A	0.017443835	-0.458301222
CHIC2	3.56E-05	0.334812805	PLA2G4A	0.000824194	0.379143467	HLA-DRB5	0.018325713	-0.531690838
FBXO25	3.56E-05	0.375634563	XLOC_I2_008013	0.000829926	-	FGFBP2	0.019101578	-0.389392674
DFNA5	3.67E-05	-0.617792644	RALY	0.000844111	0.511422521	B3GAT1	0.023342514	-0.343908189
HIST2H4B	3.72E-05	0.465511029	THEMIS2	0.000849211	0.516844775	NKG7	0.028182946	-0.352468262
ERP27	3.73E-05	-0.366654061	RNASE6	0.00085711	0.545086162	FAM26F	0.028630463	-0.410622164
CCL22	3.77E-05	-0.337975677	CASKIN2	0.000862638	-	FGL2	0.028641654	-0.486544347
YY1AP1	3.79E-05	0.33562552	MARCKS	0.000865034	0.341305415	SLC31A2	0.029873092	-0.330275757
NBPF14	3.88E-05	-0.391362377	PACIN1	0.000871136	0.801171119	IRG1	0.031481879	-0.337665755
LINC00342	4.07E-05	-0.333297933	Inc-NDUFV2-1	0.000891086	-0.58638303	NT5M	0.032019338	-0.332751527
FNIP2	4.11E-05	-0.536152838	LHFPL2	0.000893961	0.667116835	APOBEC3A	0.034297617	-0.713630661
MGAT1	4.12E-05	-0.463442192	LINC01353	0.000902942	1.080934583	SPOCD1	0.035934044	-0.366411735
					0.384618278			

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FAM129A	4.17E-05	-0.602415131	NPFF	0.00090532	-	ATHL1	0.036669927	-0.380082704
ARL4D	4.23E-05	0.436138615	KANK1	0.000910745	0.336297378	Inc-MINA-3	0.038287147	0.464051336
RAC1	4.35E-05	-0.345905865	Inc-RTL1-6	0.000916842	0.587850069	FAXDC2	0.042770136	-0.421677997
CDH1	4.46E-05	-0.585557744	LILRA3	0.000917012	0.680295895	KLRC1	0.045978728	-0.334522504
SMA4	4.47E-05	-0.330908726	VPS37C	0.000925512	-			
ADAM10	4.60E-05	-0.3463129	SERPINA1	0.000926431	0.721171349			
ZDBF2	4.62E-05	0.518452272	TNS3	0.00093208	0.591553738			
BUD31	4.68E-05	0.340633353	FTL	0.00093437	-			
HIST1H2AK	4.75E-05	0.382646393	SPEN	0.000944501	0.693803942			
LRRN3	4.83E-05	0.563744708	CCL3	0.00094549	0.598531309			
COLGALT2	4.89E-05	-0.535549311	SNORD58A	0.000955606	0.725488412			
WDR74	5.00E-05	0.359922819	C20orf194	0.001008457	0.521318647			
BAMBI	5.05E-05	0.338186208	S100A10	0.001016431	-			
Inc-CTBP1-1	5.23E-05	0.504957901	FCAR	0.001018077	0.663452072			
MYBL1	5.23E-05	-0.33393429	TRIM25	0.001045881	-			
ZBTB10	5.23E-05	0.438454846	SNHG1	0.001060534	0.720911579			
HIST1H2AC	5.24E-05	0.347160997	TIFAB	0.001065754	0.455727707			
BTLA	5.40E-05	0.42596123	GP1BB	0.001073073	0.424294831			
HIST1H2BD	5.45E-05	0.340513073	C15orf48	0.001074143	-			
SBDSP1	5.51E-05	0.454059149	RNF130	0.001082195	1.368780599			
LOC100996583	5.54E-05	0.353793923	CYP27A1	0.001096733	-			
LOC102725254	6.17E-05	0.368710909	MS4A7	0.0011057	0.986191587			
SH3BP5	6.25E-05	-0.363315071	CDKN2C	0.0011057	-			
CDKL5	6.57E-05	0.339812097	GPNMB	0.001124831	1.036236051			
ADAM8	6.69E-05	-0.330524236	AP1S2	0.001127324	0.368295151			
BLVRA	6.73E-05	-0.352796994	ASAH1	0.001129787	-			
NAPB	6.84E-05	0.330542666	NPL	0.001141852	0.434476656			
COL1A1	6.93E-05	0.531453961	QSOX1	0.001141852	-0.49138243			
ANKRD13D	6.98E-05	-0.352312437	SNORA54	0.001141852	0.415937063			
HIST1H2AH	6.99E-05	0.389177188	TFEC	0.00114423	-			
KRT86	7.07E-05	-0.629061845	LOC644135	0.001146212	0.387088171			
HIST1H4J	7.21E-05	0.451714138	NIPAL4	0.001168211	0.685583211			
PLAU	7.69E-05	-0.46211892	GP9	0.001182273	-			
SNORA14B	7.70E-05	0.418643052	MGC39584	0.001194401	0.716311568			
CISH	7.95E-05	0.581764574	LST1	0.001228034	0.555910998			
SNAI3	8.11E-05	-0.352055533	CD63	0.00125151	-			
					0.535193146			
					-			
					0.751955412			

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HIST1H4K	8.26E-05	0.426466355	SRC	0.001253274	- 0.612691417
TMIGD2	8.28E-05	-0.338304661	OGFRL1	0.001272814	- 0.457257548
FAT2	8.77E-05	0.332534393	PKD4	0.001273327	- 0.633872514
ABI3	8.81E-05	0.433599911	GLUL	0.001300765	- 0.735144235
TMEM127	8.85E-05	-0.335986658	FAM49A	0.001310155	- 0.479012153
TNFRSF8	9.03E-05	-0.474212122	LOC101930426	0.001320738	0.649583023
WHAMMP1	9.69E-05	0.448672791	VIM	0.001334537	- 0.421438582
ATP8	0.000100004	0.402096024	TLR2	0.001342643	- 1.137831985
C17orf97	0.000100957	-0.417287433	WNT10A	0.001374747	0.423207169
GPR56	0.000102591	-0.839006817	ITGA2B	0.001375695	- 0.438831969
IFI16	0.000103313	-0.342400691	SDCBP	0.001382931	- 0.405301253
ZBED2	0.000105948	-0.419428575	IL10RB-AS1	0.001386878	- 0.346709725
NAIP	0.000106246	-0.374664955	SERPINB8	0.001391745	- 0.344507582
LRIG1	0.000109492	-0.353138985	GLIPR2	0.001415885	- 0.425159649
LOC100132891	0.000114956	-0.334350417	FAM177A1	0.001424094	0.485284788
PELI1	0.000117702	0.341285134	ZNF697	0.001428345	-0.40713881
FAM222A	0.000118996	0.340717854	FAM83F	0.001436945	0.366355472
LOC285629	0.000123091	0.334863221	CXCL8	0.001475914	- 1.294481174
SPON2	0.000132698	-0.734618021	NISCH	0.001476569	0.564274667
ITGB7	0.000134452	-0.34909085	AATK	0.0014859	- 0.457890894
TRA2B	0.000139551	0.391059128	ANXA2P1	0.001497936	- 0.756598655
NSG1	0.000140789	-0.461269925	CEBPB	0.001506634	- 0.561053109
KIT	0.000141035	-0.347721097	SERPINB2	0.001515329	- 1.018096202
GSDMB	0.000144498	-0.576177319	LOC101928741	0.001524821	0.83818263
CD200	0.00014599	0.339419	PLAUR	0.00154504	- 0.889261962
RNF13	0.000147114	-0.401499828	TNIP3	0.00154504	- 0.423209083
WBP5	0.000148706	-0.339783424	C1orf122	0.001561812	- 0.513127446
ATP6	0.000152073	0.399074923	EFTUD1	0.001621145	0.710101019
NFKB1	0.000153702	0.330736352	LGALS3	0.00168159	- 0.668372597
PEX6	0.00015491	0.439804978	TPST2	0.001681892	-0.34208156
PTAFR	0.000159731	-0.334087289	Inc-AP002478.1-2	0.001702619	- 0.371749723
SFT2D1	0.000159923	-0.380564011	CHST2	0.001741328	- 0.357372202
PRPF39	0.000160998	0.357192488	SLC2A6	0.001745842	-0.3553827
BTBD11	0.000161232	0.53312043	CLIC1	0.001745842	- 0.416097368
Inc-PPT1-1	0.000161958	0.35479581	MITF	0.001764792	- 0.517547831
ARL17A	0.000164665	-0.45292009	NLRP3	0.001772307	- 0.473883639
RHOH	0.000164921	0.45261474	CXCL5	0.001787065	-0.9494226

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JAK2	0.000165073	-0.365798112	LIMS1	0.001787667	-
CD244	0.000167664	-0.345826769	FBXO2	0.001865263	0.489020515
SERPINF1	0.000176799	-0.405745996	TALDO1	0.001881348	0.406403572
LUCAT1	0.00018774	-0.434933539	TNFSF14	0.001887382	-
MTRNR2L9	0.000196709	0.497928151	TNS1	0.001889338	0.415769121
LINC00152	0.000196804	-0.361498055	HIST1H3D	0.00189175	-
GSTO1	0.000200851	-0.505766025	DRAM1	0.00194592	0.430865757
CD40	0.000205974	0.334926292	ABCA1	0.001958162	-
FAM13A-AS1	0.000206907	-0.358861701	MINOS1-NBL1	0.002022352	0.549878769
MYD88	0.000208211	-0.383466609	WIPI1	0.002025288	0.450977767
SNORD86	0.000210997	0.451517932	SNORD68	0.002038182	-
lnc-PRMT8-2	0.000214999	-0.504976428	CTSZ	0.002048906	0.517401721
TMEM189	0.000216216	-0.349056544	S100A6	0.002097513	0.491517304
LOC100506563	0.00021668	0.346618955	STARD8	0.002106445	-
FAS	0.000229131	0.430603345	GNA12	0.002117468	0.495262106
MSC	0.000238006	-0.722933488	LOC101928173	0.002119911	-
TUBA8	0.000238093	0.427262793	lnc-REEP5-1	0.00214731	0.343962582
RMI2	0.000249545	0.412934548	CCL3L3	0.002174075	0.841051436
RIOK1	0.000256597	0.367363428	lnc-GPR83-2	0.00221001	-
RGS16	0.000262587	0.513887016	CASP5	0.002211271	0.657450561
GSTM3	0.000275432	0.553861771	SNORA74A	0.002217966	0.423764387
ANXA2P3	0.000284791	-0.366753782	lnc-ARRB2-2	0.002254701	-
S100B	0.000290248	-0.621038683	PMP22	0.002266568	0.383538071
SCARB2	0.000291088	-0.429763321	PPIF	0.002366009	0.343415671
NEAT1	0.00029435	-0.486724139	lnc-SNX11-2	0.002386329	0.77456494
IER5	0.000299663	0.357737371	NLRP2	0.002459829	-
NRP1	0.000301592	-0.57606758	LOC731424	0.002488812	0.396289896
CCL20	0.000333066	-0.766970499	HLX	0.002507423	-
PBX4	0.000340383	0.378037418	HSPA2	0.002516733	0.671694221
LOC100130587	0.000340421	0.439020072	PPARG	0.002522578	-
XLOC_I2_010064	0.000351091	-0.382381547	SMCO4	0.002572673	0.520023115
CD58	0.000355122	-0.396103944	AKR1C1	0.002584204	-
SRGN	0.000357478	-0.351671415	XLOC_I2_010908	0.002585144	0.504388125
IL10	0.000365461	-0.391944962	CORO1C	0.002609034	-
BCL3	0.000368305	0.400115441	SPP1	0.002675752	0.814486575
RP2	0.000384451	-0.44045592	CCL2	0.002690719	-0.51200798
MAP3K8	0.000395589	-0.360695974	ERAP2	0.002695662	-
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SUPPLEMENTARY MATERIAL

ZNF165	0.000395993	0.491732301	ADA	0.002789983	-
DPP9-AS1	0.000396562	0.622135106	DMXL2	0.002830253	0.596551864
LOC101930595	0.00040014	0.421001136	IFNGR1	0.002834784	-
BST2	0.000409397	-0.334985477	MGST1	0.002835839	0.433152861
GZMK	0.000412414	-0.483009229	SOD2	0.002877697	-
SRD5A1	0.00041718	-0.387746404	RIN2	0.002879663	0.948011797
CLDN5	0.000431841	0.40923654	DAB2	0.002896007	-
SERF1A	0.000437011	0.363508339	COTL1	0.002957637	0.717830581
TFPI	0.00043855	-0.400151691	NAMPT	0.002987308	-
SEMA7A	0.000440923	0.343341907	SRXN1	0.002997864	0.372274418
NRIP3	0.000441439	-0.451692701	PIR	0.003005046	-
DOK4	0.000450614	0.441026735	DHRS9	0.003112157	0.896664892
CXCR6	0.000450627	-0.477776799	NPC2	0.003182797	-
SLC10A1	0.000461934	0.342407839	PRMT9	0.003182797	0.524583677
MTRNR2L6	0.000462936	0.44017706	lnc-ZC3H12D-2	0.003184573	0.512189875
ZEB1	0.000470038	0.354005309	SNORD30	0.003197451	0.806475297
MT1G	0.000482843	-0.335087454	HAS1	0.003228987	0.343458297
SEC14L2	0.000483923	0.397391827	GAPDH	0.003254231	-0.41337035
CDKN1C	0.000494286	0.436810753	lnc-C2orf69-3	0.003257122	-
C4orf32	0.000507292	0.443590253	ANXA2	0.00336149	0.378997306
lnc-PPIA-1	0.000534225	0.426454371	IGJ	0.00337185	0.625667442
LRP12	0.000542257	-0.467278373	TMEM158	0.003391177	-
PIM2	0.00054608	0.364891903	SERPINB1	0.00341933	0.513839613
DIXDC1	0.000567843	0.527089147	CD300A	0.003537874	-
CLIC3	0.000594559	-0.405776324	S100A2	0.003584854	0.372992127
lnc-COL1A1-3	0.000625527	0.408906421	HIST1H3B	0.003645107	-
ARL5B	0.000627325	0.346854788	RNASE1	0.003675563	0.335036088
GNLY	0.000697868	-0.377841029	LAMB3	0.003750876	0.395094074
ACTG1P20	0.000723101	-0.334235509	DPYSL3	0.003877071	-
MALAT1	0.000725705	-0.363665661	RNU6ATAC	0.003917553	0.590024341
TREML1	0.000741182	0.357360172	PPAN-P2RY11	0.003945472	-
CIRBP	0.000813677	-0.373552154	SMPDL3A	0.003945743	0.353823435
LOC101927059	0.000911861	-0.420436413	lnc-RNF13-2	0.003962073	0.439649083
UBD	0.000915009	0.46027953	KYNU	0.003974985	0.347254897
MIR146A	0.00095934	-0.425639986	LOC344887	0.004068037	-
PRKAG2	0.000960882	-0.360935496	ZAK	0.004091988	0.485143702
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SUPPLEMENTARY MATERIAL

MT1M	0.001019026	0.360048224	TPST1	0.004142999	-
CSTB	0.001037802	-0.568670746	IER2	0.004155889	0.631817387
GCSAM	0.001058703	0.359608651	ACSL1	0.004191682	0.34596873
FASLG	0.001100024	-0.517800102	ANXA5	0.004197485	-
SPHK1	0.00119846	-0.357966005	HIST1H4B	0.004293864	0.557489079
TNFRSF9	0.00121547	-0.382683632	BID	0.004352592	0.411006904
CD69	0.001263916	0.363842298	HIST1H3F	0.004377853	-
DEAF1	0.00127321	0.418261603	SMPD3	0.004385121	0.537448573
RNVU1-18	0.001316014	0.503939841	AGPAT9	0.004420481	0.375488789
IGSF6	0.001334288	-0.626978461	KMO	0.004447569	-
ND1	0.001416922	0.406010973	PLEK	0.004458872	0.601381943
MTRNR2L1	0.001420422	0.330517356	MTFP1	0.004468264	-
C22orf34	0.001439676	0.330642829	SFI1	0.004673884	0.672977411
TM4SF19	0.001480886	-0.56633433	OR5L2	0.004703726	0.380543636
SYTL3	0.001563803	0.349394143	TNFAIP6	0.004723401	-
PER1	0.001602584	0.476787884	CDC42EP2	0.004929459	0.341874701
MTHFD2	0.001637622	-0.378243441	SLC36A1	0.004970525	0.380175459
C1orf21	0.001858711	-0.358063914	IL1A	0.004980366	-
MTRNR2L7	0.001895061	0.379649238	ATG16L2	0.005002721	0.771486451
MPZL1	0.001928307	-0.342129681	SLAMF7	0.005009844	-
ANKRD37	0.001958283	0.398256506	ZFYVE16	0.00525149	0.536656073
PDXDC2P	0.002049654	-0.360453773	RPA4	0.005390179	-
CTSLP2	0.002058744	-0.378534864	IRAK3	0.005481406	0.427072107
TESPA1	0.002329118	0.354042234	NCEH1	0.005516353	0.745128202
SPAG4	0.002571833	0.362124353	SNORD45B	0.005582711	-
MMP7	0.00263603	0.429409156	lnc-SRP54-1	0.005630123	0.616397524
EZH2	0.002751498	0.392250194	LY86	0.005676881	0.35165698
ARRDC2	0.002964738	0.331839416	ARRDC4	0.00577243	0.340094496
RNU2-1	0.002973917	0.343155624	INSIG1	0.006195449	-
CHST12	0.003111345	-0.372519464	ICAM1	0.006414225	0.397157173
IL6	0.003233227	-0.542903541	ACOT9	0.00670804	-
PVALB	0.003308921	0.419801502	IRF5	0.006826551	0.518015045
SAT1	0.003342869	-0.337246059	METRNL	0.006896401	-
lnc-ZNF507-1	0.003346703	-0.40435321	AQP9	0.006960846	0.423844459
RTP4	0.003386413	-0.349267506	PCTP	0.007221052	-
FCGBP	0.003563478	0.353456525	RTN4	0.007811246	0.598961509
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SUPPLEMENTARY MATERIAL

SERPINB9	0.003727361	-0.367322174	TXNRD1	0.00790253	-
GCGR	0.003732188	0.540528648	CARD6	0.007915528	0.411097366
LY96	0.003791336	-0.39140142	HIST1H4C	0.008134877	-
EOMES	0.003945929	-0.437970007	AKR1C8P	0.008175303	0.378827306
CD40LG	0.004219814	0.338351768	PTGS2	0.009069856	0.3744449734
TRGV7	0.004284879	-0.451057457	NSMAF	0.009275345	-
GZMA	0.004293764	-0.535362743	SOWAHC	0.009316384	0.534867243
CD79A	0.004447504	0.371303274	RPS26	0.009424648	-
OVOL1	0.004750517	0.345002643	DDX60L	0.009453557	0.504628108
LGALSL	0.006427751	0.452289282	TSC22D1	0.00981578	0.554802605
MMP9	0.006609184	-0.569772134	HEY1	0.00984205	-
GZMB	0.006705739	-0.61412997	SNORA80B	0.009924464	0.433730885
PSPH	0.006901338	1.119712005	GJB2	0.01004432	0.369869807
S1PR5	0.006972497	-0.401531134	NPIP9	0.010046727	-
ENKUR	0.007048453	0.348231779	B3GNT5	0.010110394	0.516152443
CPNE7	0.008340639	-0.357923859	CCL7	0.010198612	-
MIR155HG	0.010964724	0.369127088	F3	0.010453331	0.608251543
GRASP	0.014413524	0.346956116	SLC25A24	0.010463793	-
C19orf33	0.01677018	0.442150658	ST3GAL6	0.011647274	0.491081019
LOC100653133	0.016929681	0.385679891	HIST1H4D	0.011647274	-
SLC24A3	0.017358165	0.330187913	CD109	0.011748006	0.466436452
ZSWIM7	0.024064828	-0.416588907	PROCR	0.011933536	0.351458885
ADARB2	0.030848023	0.439080203	INHBA	0.012029312	-
RSAD2	0.03500454	-0.525490379	SNORA45B	0.012089531	0.490366299
GOLGA6L6	0.035259037	0.333801804	PAPSS2	0.012811429	-0.50951571
SAMD9L	0.035389671	-0.339350631	EREG	0.013040825	-0.56890262
TUBB6	0.043910239	-0.390905831	CCRL2	0.013368502	0.390222471
			ZC3H12C	0.013580362	-
			RSRP1	0.013600009	0.418959921
			SLC1A3	0.014104099	-
			LOC644090	0.014884466	0.415696714
			ANXA3	0.01493745	-
			MMP19	0.01498385	0.449944301
			PLBD1	0.015289943	0.353528965
			AGAP3	0.015311131	-
			GSAP	0.015411202	0.396316618
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SUPPLEMENTARY MATERIAL

PTGER2	0.016051746	-	0.681390838
BCAT1	0.01610696	-	0.448866751
Inc-BZRAP1-1	0.01655822	-	0.374868672
LY6K	0.017812305	-	0.566183034
SCARNA5	0.018063952	-	0.482971401
EGR4	0.018261173	-	0.476748566
SEC24D	0.018375362	-	0.332914807
ODF3L2	0.019567294	-	0.482585817
MYOM2	0.019918352	-	0.345382212
IRAK2	0.020708723	-	0.382831942
MTRNR2L8	0.021029489	-	0.347654058
KRTAP3-3	0.021156915	-	0.414193778
SQRDL	0.022247245	-	0.454454742
SNORD17	0.023351307	-	0.351300541
ATP6V1B2	0.023432798	-	0.339223514
LOC102723428	0.023537977	-	0.358295516
TBX21	0.024025912	-	0.369064361
TXN	0.024583603	-	0.498435569
SEMA4C	0.026131234	-	0.345584071
LOC100130938	0.027425653	-	0.360391939
C3	0.028017273	-	0.333178908
G0S2	0.028351113	-	0.752519263
PSPHP1	0.030999224	-	1.129766466
HBG1	0.031081836	-	-0.65324956
IL1RN	0.032061387	-	-0.5532259
SNORD1B	0.033238784	-	0.330589411
ITGAV	0.034326066	-	0.396055416
BASP1	0.03482923	-	0.355381876
RPPH1	0.035777643	-	0.341448091
ELOVL7	0.03739523	-	0.362312683
CREG1	0.044044171	-	0.532858635
PLSCR1	0.049500983	-	-0.42560724
PRR7	0.049808648	-	0.348394259