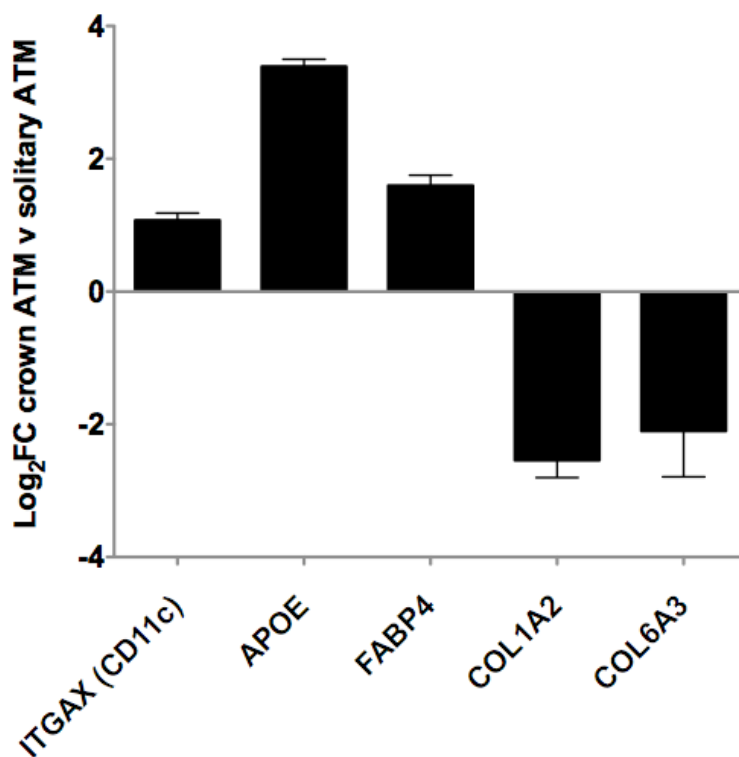


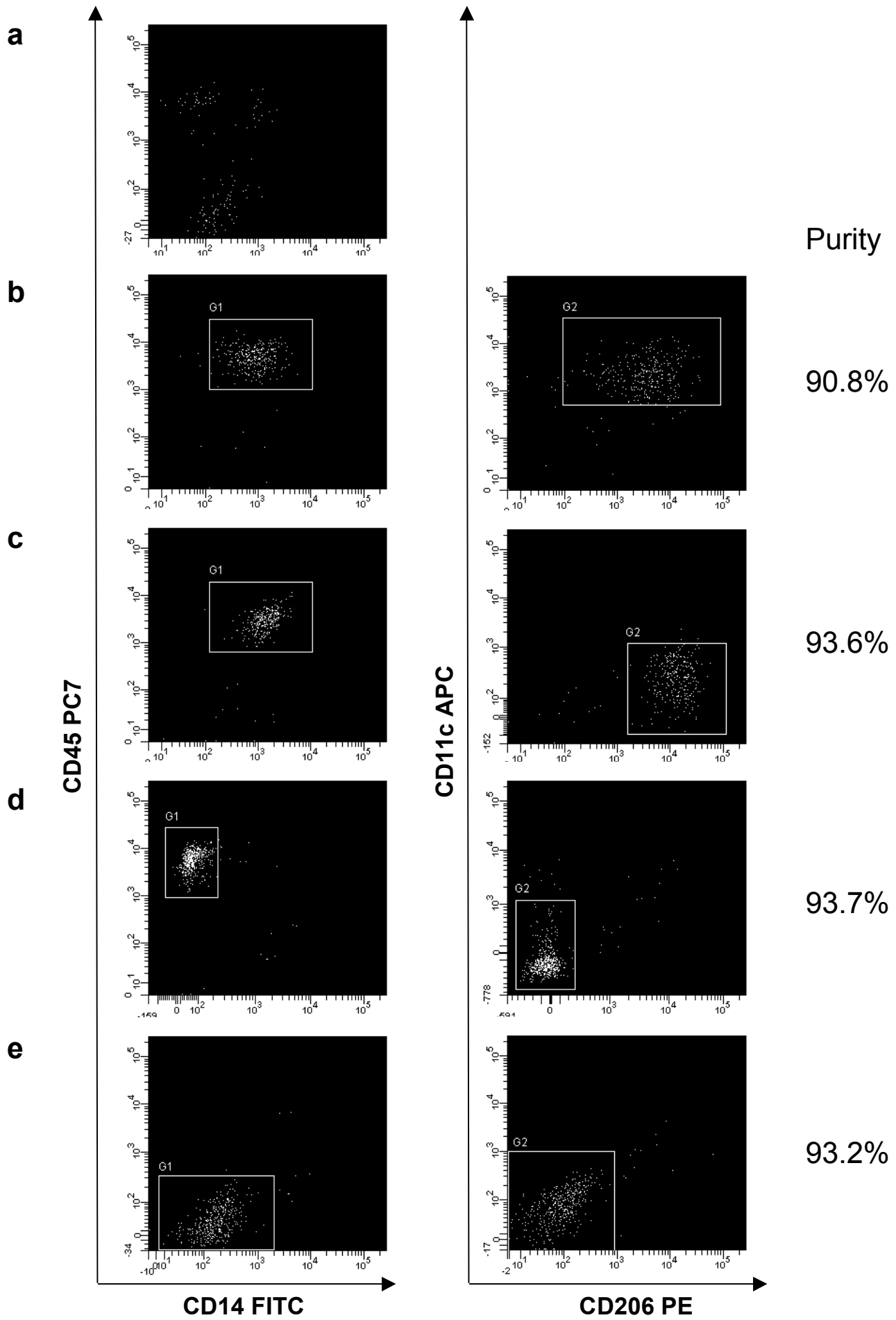
**Pro-inflammatory CD11c⁺CD206⁺ adipose tissue macrophages
are associated with insulin resistance in human obesity**

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SUPPLEMENTAL DATA



Supplemental Figure 1. Validation of gene microarray. CD11c⁺CD206⁺ and CD11c⁻ ATMs were isolated from subcutaneous adipose obtained from three obese women with metabolic syndrome. mRNA expression relative to β -actin was determined. Results are presented as mean \pm sem. For each gene, differential mRNA expression was statistically significant ($p < 0.05$ using paired t-test).



Supplemental Figure 2. Purity of sorted stromovascular cells. Sorted cells representing **a** total SVF, **b** CD11c⁺CD206⁺ ATMs, **c** CD11c⁻ ATMs, **d** LYM and **e** PA, were analysed by flow cytometry. Purity was determined as the percent total events within gate G2, the daughter gate of G1.

SUPPLEMENTAL TABLE 1

Log₂FC (11c+206+ v 11c-)	Genbank Accession	Gene Symbol	Average Expression	Adjusted p value
3.688461019	NM_001645	APOC1	8.801118445	1.02E-08
3.250931143	NM_000041	APOE	9.705503535	8.72E-07
3.041750805	NM_001765	CD1C	9.076054691	2.41E-07
2.912715532	XM_946172	TM4SF19	7.56354852	2.22E-08
2.902805301	NM_138461	TM4SF19	7.525260599	1.60E-08
2.874890292	NM_170696	ALDH1A2	7.855804462	4.93E-08
2.848075965	NM_206963	RARRES1	8.189856488	7.83E-09
2.775295424	NM_000582	SPP1	9.494275339	3.19E-07
2.646993092	NM_020980	AQP9	10.15164726	9.07E-08
2.555186687	NM_001448	GPC4	7.542578269	1.91E-08
2.544098321	NM_000784	CYP27A1	9.868402068	1.92E-08
2.507867273	NM_002888	RARRES1	7.727548824	1.14E-07
2.483862041	NM_001764	CD1B	7.418810678	7.97E-07
2.462182678	NM_018965	TREM2	7.412671361	2.94E-10
2.349526622	NM_002001	FCER1A	10.17085191	0.0147642
2.288599967	XM_937367	IL7R	7.53404283	2.20E-07
2.253247207	NM_000237	LPL	8.142396151	1.92E-08
2.253095921	NM_005449	FAIM3	7.781355584	1.54E-07
2.176849407	NM_020037	ABCC3	8.843355092	2.81E-06
2.061873391	NM_005084	PLA2G7	10.37399758	5.11E-05
2.030968396	NM_013447	EMR2	10.14180099	9.53E-07
2.02388185	NM_144569	SPOCD1	6.896290107	7.83E-09
2.002377108	NM_032413	C15orf48	9.347116744	0.002083244
1.959910284	NM_033438	SLAMF9	7.281726944	2.22E-08
1.946850203	NM_004994	MMP9	10.11815699	3.87E-06
1.900352573	NM_001838	CCR7	6.927225004	2.01E-06
1.898607108	NM_006022	TSC22D1	8.19817858	0.000226933
1.896146814	NM_001778	CD48	10.93730884	1.36E-05
1.891270418	NM_002999	SDC4	9.220581425	1.92E-05
1.844882087	NM_032717	MAG1	9.881851795	2.26E-06
1.838787082	NM_006498	LGALS2	9.28593063	6.30E-05
1.805767333	NM_181795	PKIB	7.699963566	2.05E-06
1.801708309	NM_006843	SDS	8.644320018	0.007191912
1.768674682	NM_005248	FGR	11.21505237	2.47E-06
1.743009967	NM_000507	FBP1	10.08500466	1.43E-08
1.725983664	NM_183422	TSC22D1	9.867912916	0.000236528
1.721187844	NM_002543	OLR1	11.51772869	0.016970177
1.697756764	NM_001766	CD1D	9.25441401	0.000235039
1.695208132	NM_012413	QPCT	9.421301981	6.90E-06
1.687012047	NM_173343	IL1R2	10.3347309	0.004133048
1.664859887	NM_002423	MMP7	6.780621493	4.19E-06
1.639112	NM_139249	MS4A6E	6.780517938	1.01E-07
1.615002056	XR_001413	NAPSB	8.611666646	0.000137596
1.613210871	NM_004613	TGM2	7.339929753	2.46E-05
1.593393717	NM_002348	LY9	7.37176996	1.51E-07
1.590509136	NM_002204	ITGA3	6.725947993	3.47E-07
1.564249777	NM_007063	TBC1D8	9.082000623	2.63E-07
1.555775731	NM_001150	ANPEP	9.469922606	0.000580883
1.555164111	NM_000483	APOC2	6.857915575	1.55E-07
1.554695413	NM_001013253	LSP1	8.120919199	1.32E-07
1.5380149	NM_139022	TSPAN32	9.187000683	3.22E-06
1.52263747	NM_181873	MTMR11	9.184048441	2.11E-06
1.518845231	NM_001627	ALCAM	8.843626769	2.38E-06
1.518264902	NM_033128	SCIN	7.064888617	3.99E-06
1.497135338	NM_201625	CLEC12A	10.80514603	2.88E-06
1.496642634	NM_003465	CHIT1	7.014736366	2.47E-06
1.495107502	NM_014521	SH3BP4	8.137436282	2.74E-08

1.492243239	NM_002987	CCL17	7.007235521	0.000829173
1.484697353	NM_005214	CTLA4	7.662259256	5.23E-06
1.468137913	NM_001763	CD1A	7.360307497	3.33E-05
1.468076762	NM_019555	ARHGEF3	9.34193172	0.000148236
1.464639931	NM_004119	FLT3	7.446113847	0.000503267
1.462564162	NM_057158	DUSP4	8.129021577	0.000103444
1.441455135	NM_003486	SLC7A5	9.408584211	0.003418575
1.436344145	NM_001109	ADAM8	9.101514001	4.71E-05
1.435521621	NM_181789	GLDN	6.943365589	0.000312661
1.434197662	NM_004572	PKP2	8.015502578	0.001265323
1.415823895	NM_002209	ITGAL	8.466386351	6.04E-06
1.412106124	NM_021175	HAMP	7.266378277	0.000869332
1.409916659	NM_004591	CCL20	9.621535831	0.000121108
1.40952393	NM_023002	HAPLN4	6.812494225	7.29E-08
1.401638469	NM_002754	MAPK13	8.049013954	5.26E-05
1.386770931	NM_173842	IL1RN	10.7403342	0.002121196
1.38066534	NM_032152	PRAM1	8.135700202	2.80E-05
1.376278204	NM_003650	CST7	7.180988498	3.18E-05
1.361059179	NM_002003	FCN1	12.75584905	2.82E-05
1.359902656	NM_001769	CD9	11.55532262	0.007885579
1.357682221	NM_004694	SLC16A6	7.935304132	0.001959296
1.35720002	NM_003246	THBS1	11.09394002	0.001672861
1.35068419	NM_001004307	MGC33556	8.491213472	0.000127802
1.346514046	NM_000676	ADORA2B	8.351353332	0.000438657
1.345152993	NM_213646	WARS	9.79931884	2.11E-06
1.34468164	NM_182549	HLA-DQB2	6.80827893	0.007499192
1.335151361	NM_173842	IL1RN	11.41936273	0.000298364
1.322597074	NM_014398	LAMP3	6.980963655	0.000175575
1.320268237	NM_033105	DNAJC5B	7.082857025	4.98E-05
1.319977794	NM_001442	FABP4	10.82794251	1.92E-08
1.314605085	NM_000376	VDR	7.811142645	0.000126943
1.313939361	NM_174918	C19orf59	9.139414134	2.43E-05
1.310840639	XM_939432	MGC61598	7.815433849	0.000276667
1.310783194	NM_006317	BASP1	10.99141915	0.000523248
1.291633383	NM_021149	COTL1	9.813490776	9.07E-08
1.280262395	NM_002250	KCNN4	8.470864133	0.000262845
1.278389202	NM_003805	CRADD	9.146544817	0.012576979
1.272617323	NM_022124	CDH23	7.329079058	1.00E-06
1.268341037	NM_021732	AVPI1	10.98746911	0.043613414
1.261823371	NM_002416	CXCL9	7.734898048	0.00191434
1.25881513	NM_152888	COL22A1	6.542269288	1.07E-05
1.252388367	NM_004776	B4GALT5	9.223450453	7.75E-05
1.246607019	NM_004418	DUSP2	10.52150297	0.002252086
1.246366285	NM_033054	MYO1G	9.125756733	1.34E-05
1.236587705	NM_153259	MCOLN2	7.688595025	0.009200475
1.233002361	NM_174892	CD300LB	7.864977569	3.98E-07
1.223216616	NM_002306	LGALS3	9.716719125	3.91E-07
1.216107968	NM_004839	HOMER2	6.756467131	5.98E-07
1.199810493	NM_013252	CLEC5A	8.287895835	0.005015789
1.195968767	NM_006176	NRGN	8.452266473	1.20E-07
1.182850698	NM_004843	IL27RA	9.366744107	1.16E-06
1.172652942	NM_005384	NFIL3	9.830977541	4.42E-05
1.170620596	NM_005261	GEM	7.811724843	0.007436009
1.167224083	NM_015187	KIAA0746	8.522527495	3.18E-06
1.16718427	NM_152687	C5orf29	8.91753585	0.003861886
1.163288075	NM_152322	BTBD11	7.714333426	3.47E-07
1.161236808	NM_004288	PSCDBP	9.875015392	0.000271908
1.156737416	NM_002222	ITPR1	8.232184502	9.10E-08
1.155280522	NM_014909	VASH1	8.316065582	0.00016113
1.142792843	NM_002991	CCL24	7.891897944	0.023268762

1.139597686	NM_032413	C15orf48	7.730166899	0.033114601
1.137805651	NM_001002236	SERPINA1	11.81888365	9.25E-05
1.134073847	NM_001767	CD2	6.925753695	0.001953753
1.133417211	NM_002990	CCL22	6.779873135	0.000497692
1.123784751	NM_022765	MICAL1	9.514839263	4.59E-07
1.123117014	NM_017585	SLC2A6	8.383457238	1.54E-05
1.118172003	NM_006865	LILRA3	9.681860008	0.025840871
1.116473469	NM_002934	RNASE2	9.322097583	0.03151321
1.10955957	NM_012118	CCRN4L	7.657089365	3.89E-05
1.108125765	NM_022343	C9orf19	12.31103605	1.59E-05
1.107480878	NM_015393	DKFZP564O0823	6.710089223	3.04E-05
1.103889361	NM_005693	NR1H3	9.202420751	1.25E-05
1.102644476	NM_001009991	SYTL3	7.993778231	3.71E-07
1.097857971	NM_002627	PFKP	7.62797521	3.12E-05
1.096176495	NM_022481	CENTD3	8.43020157	7.46E-06
1.088441866	NM_002357	MXD1	10.21357259	0.00012216
1.088173884	NM_002162	ICAM3	9.290379286	0.000131794
1.085526842	NM_025193	HSD3B7	7.284707127	1.05E-06
1.083948714	NM_004390	CTSH	10.46435619	1.02E-08
1.083196052	NM_001671	ASGR1	10.03241338	0.000389711
1.081684295	NM_181597	UPP1	11.42910271	0.000276583
1.078238403	NM_017791	FLVCR2	8.782313321	6.31E-05
1.07419298	NM_021021	SNTB1	8.330567761	6.03E-06
1.07394037	NM_000067	CA2	9.11683662	2.79E-05
1.073675308	AA302842	NA	6.56787655	0.000261814
1.068084149	NM_001229	CASP9	8.940262866	0.000235039
1.067433105	NM_004987	LIMS1	10.29906293	2.02E-05
1.064908426	NM_000189	HK2	8.175844371	2.63E-05
1.064500963	NM_020223	FAM20C	9.127186165	0.000166939
1.06324586	NM_001033667	LY9	6.785428833	4.66E-07
1.062172181	NM_018421	TBC1D2	8.992055361	0.000264901
1.061394415	NM_139018	CD300LF	8.485489591	2.64E-07
1.060061373	NM_004385	VCAN	9.973748581	0.003571748
1.057777732	NM_005950	MT1G	7.591352559	0.000678917
1.055031726	NM_003105	SORL1	8.403356338	5.80E-05
1.053539478	NM_002621	CFP	9.304765817	4.95E-06
1.052966491	NM_000235	LIPA	12.29579693	0.001355721
1.052721786	NM_033274	ADAM19	8.58814695	0.007511367
1.049938441	NM_006931	SLC2A3	12.82825992	0.000542417
1.049905282	NM_016463	CXXC5	8.953353663	1.51E-05
1.040195206	NM_012338	TSPAN12	6.533556997	1.61E-07
1.036155971	NM_001456	FLNA	8.584269796	1.63E-06
1.03495324	NM_006287	TFPI	6.996482668	0.000223399
1.032562632	XM_498969	LOC441019	7.47757517	0.000149325
1.03226113	NM_001102	ACTN1	9.636968211	6.49E-07
1.027927941	NM_006398	UBD	6.639241723	0.001842046
1.025619558	NM_005953	MT2A	11.3743295	0.00173718
1.024416647	NM_001747	CAPG	7.584593252	2.63E-07
1.024411646	NM_021233	DNASE2B	7.401781951	0.027262925
1.020745732	NM_006255	PRKCH	8.084832577	1.04E-05
1.020327026	NM_016354	SLCO4A1	8.152655498	0.001414536
1.018604648	NM_020792	AADACL1	9.691013484	5.55E-06
1.013229593	NM_015481	ZNF385	8.240582305	1.67E-06
1.008479544	NM_152899	IL4I1	8.724684757	2.47E-05
1.007490579	NM_000895	LTA4H	12.28363209	2.64E-06
1.00470752	NM_001444	FABP5	6.555347266	9.71E-08
1.004031006	NM_022054	KCNK13	7.696696587	2.86E-06
1.003354419	NM_005417	SRC	9.108939562	0.010476187
1.001194236	NM_023009	MARCKSL1	8.908325003	0.004496261
0.997052607	NM_147184	TP53I3	8.835608468	1.12E-06

0.996311361	NM_002964	S100A8	11.25723374	0.001262542
0.994365822	NM_005258	GCHFR	8.318205915	2.61E-05
0.989665987	NM_173626	SLC26A11	8.678786421	0.000999251
0.987323758	NM_130848	C5orf20	7.63595084	0.000877173
0.981479924	NM_205837	LST1	10.57470759	1.24E-05
0.975069866	BC090942	NA	8.062115845	3.02E-05
0.974298099	NM_021129	PPA1	10.53772331	0.000535864
0.971841002	NM_024923	NUP210	7.642388906	3.02E-06
0.967512829	NM_021827	CCDC81	6.761331596	2.24E-05
0.965001983	NM_145008	YPEL4	7.389637983	0.006441692
0.963267254	NM_139355	MATK	6.540362509	2.57E-05
0.961100312	NM_002566	P2RY11	7.608966981	5.35E-05
0.960981658	NM_178181	CDCP1	6.677681432	7.91E-08
0.959381263	NM_005946	MT1A	10.84229281	0.000173447
0.957789634	NM_000167	GK	8.512801063	0.007165469
0.956785656	XM_938171	PIM3	9.85064648	0.001008187
0.952407918	NM_004633	IL1R2	7.160526132	3.78E-05
0.947989766	NM_005491	CXorf6	6.78750613	6.47E-05
0.947954791	NM_016428	ABI3	7.826725045	3.33E-05
0.944784557	NM_003196	TCEA3	6.986631406	0.003337213
0.943547823	NM_022154	SLC39A8	8.340226632	0.002072248
0.940010994	XM_377506	EMR4	6.652823185	2.64E-07
0.936746716	NM_007161	LST1	10.67999172	0.006441692
0.935897421	NM_052836	CDH23	7.201614405	0.000271769
0.935569496	NM_003078	SMARCD3	8.709869431	1.33E-05
0.931848012	NM_172004	CLECL1	7.794229359	0.001361537
0.928793025	NM_182906	CLEC10A	8.739656686	7.99E-05
0.923901188	NM_012474	UCK2	7.572095959	3.33E-05
0.922741984	NM_182661	CERK	9.571079281	3.19E-07
0.920997835	NM_198517	TBC1D10C	8.038990062	1.54E-07
0.914177305	NM_006636	MTHFD2	8.648722565	2.40E-05
0.905926305	NM_002600	PDE4B	8.704133381	0.006575071
0.904427748	NM_032118	WDR54	8.063055845	7.21E-05
0.899804786	NM_001001852	PIM3	9.471355416	0.001760735
0.897844227	NM_001024630	RUNX2	7.251254871	0.011279886
0.897765618	NM_005219	DIAPH1	10.48692422	8.20E-06
0.894472608	NM_030622	CYP2S1	8.989899651	0.00039874
0.894412928	NM_000100	CSTB	12.78439588	3.71E-05
0.891875697	NM_001432	EREG	7.2380169	0.001610191
0.889018177	NM_181716	PRR6	7.368502153	5.34E-07
0.885263993	NM_130771	OSCAR	9.467910802	2.58E-06
0.884897267	NM_000239	LYZ	13.8759562	1.95E-05
0.884441206	NM_006065	SIRPB1	8.074787896	2.17E-06
0.884382509	NM_003821	RIPK2	11.11428903	9.18E-05
0.880972924	NM_018837	SULF2	8.002361001	0.000753672
0.8777363	NM_033501	TRERF1	7.570858077	5.46E-07
0.875620743	NM_002558	P2RX1	7.80936807	2.47E-06
0.875469995	NM_030674	SLC38A1	6.735639972	2.23E-05
0.87456715	NM_002037	FYN	8.085842578	1.93E-06
0.869507327	NM_014689	DOCK10	10.12445634	0.001360205
0.869469121	NM_014279	OLFM1	7.471108981	0.000808469
0.869415667	NM_181676	PPP2R2B	6.54548071	2.67E-05
0.869403237	NM_016735	LIMK1	9.597796028	1.14E-07
0.869395206	NM_024829	FLJ22662	11.82374156	0.000132347
0.868795137	NM_001878	CRABP2	6.896229311	3.37E-05
0.867546809	NM_001010917	C10orf132	6.418321946	4.55E-07
0.866632756	XM_945237	DNAJB5	7.779845943	0.000136755
0.866057583	NM_005138	SCO2	9.331794078	0.002911143
0.865446979	NM_153047	FYN	7.796208617	8.50E-06
0.865394778	NM_002998	SDC2	7.558127392	1.54E-07

0.864342715	NM_001024844	CD82	7.686712766	0.000778592
0.862104282	NM_000804	FOLR3	8.691492479	0.014313388
0.861359173	NM_021734	SLC25A19	10.19063713	0.000334542
0.860216191	NM_012253	TKTL1	6.986117523	0.046393083
0.860080732	NM_001010982	AFMID	8.110015237	7.88E-05
0.858461461	NM_001782	CD72	8.681305169	0.001598372
0.85661345	NM_002123	HLA-DQB1	11.31865148	0.003555925
0.855868081	NM_005792	MPHOSPH6	9.550377416	0.000720986
0.855813612	NM_030893	CD1E	6.807188295	0.000184446
0.855507441	NM_022162	NOD2	9.805827046	3.69E-05
0.854722022	NM_012266	DNAJB5	7.415652222	5.71E-06
0.852393537	NM_025245	PBX4	6.466322238	0.000519409
0.849906301	NM_006332	IFI30	13.34919416	8.72E-07
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0.84896417	NM_003679	KMO	8.346733014	0.013903721
0.84859625	NM_001323	CST6	6.571154837	0.000203127
0.848511384	NM_152574	C9orf52	7.145362367	0.0025067
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0.842282244	NM_201535	NDRG2	7.561114439	0.001686211
0.838805706	NM_002959	SORT1	9.689150494	3.31E-05
0.837956121	NM_014400	LYPD3	7.059783839	0.010522756
0.837158427	NM_022136	SAMSN1	11.71458695	0.004066415
0.835817177	NM_018112	TMEM38B	7.804422995	0.000366582
0.835727713	NM_153206	AMICA1	12.03822819	0.003678759
0.834714448	NM_015864	C6orf32	8.29416609	0.007823581
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0.831402814	NM_004998	MYO1E	7.452561909	2.02E-05
0.816944761	NM_002852	PTX3	8.784157212	0.000423477
0.81558541	NM_005077	TLE1	7.949095038	8.69E-05
0.814132015	NM_000248	MITF	8.546133381	5.55E-06
0.812291337	NM_001005376	PLAUR	10.9923365	0.009310902
0.808645762	NM_013233	STK39	8.132397937	9.67E-05
0.807613195	NM_020152	C21orf7	7.952106168	0.004177902
0.806503482	XM_940688	LOC651524	7.981694912	0.023836815
0.804865881	NM_001031685	TP53BP2	10.31709479	0.000301936
0.803757958	NM_015892	GALNAC4S-6ST	10.35228382	0.00060898
0.802750918	NM_032812	PLXDC2	8.902778705	1.02E-05
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0.796830854	NM_153022	C12orf59	7.30785029	0.049313969
0.796549336	NM_006680	ME3	7.898097921	1.81E-05
0.795871039	NM_001032281	TFPI	6.760819916	0.000287078
0.791501873	NM_004832	GSTO1	12.00274037	1.93E-06
0.790961063	NM_000593	TAP1	11.00554233	0.000551253
0.790223345	NM_003151	STAT4	6.916734387	0.000275623
0.788989583	NM_001030012	OPN3	9.280379298	0.000218737
0.78004663	NM_025079	ZC3H12A	10.23156915	0.021604594
0.779263605	NM_003633	ENC1	7.556496753	0.001133091
0.776445322	NM_014867	KBTBD11	7.698721099	0.002446128
0.771995965	NM_016185	HN1	7.897378598	9.71E-05
0.770109748	NM_020914	RNF213	7.552785142	0.008167465
0.76932975	NM_001759	CCND2	9.379524177	0.00146693
0.768764115	NM_001002857	ANXA2	10.08911426	0.001247807
0.768220401	NM_032873	STS-1	7.912936201	0.000502284
0.765928226	NM_001624	AIM1	7.56015683	0.000575793
0.765049163	NM_003038	SLC1A4	6.821885562	1.51E-07
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0.763340556	NM_003039	SLC2A5	6.888656371	2.09E-05

0.762592792	NM_016616	TXNDC3	7.538088531	0.000788443
0.761384256	NM_004851	NAPSA	7.531919557	0.008238856
0.760877146	XM_944265	LOC283050	6.563556786	4.38E-05
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0.759145411	NM_003045	SLC7A1	8.28472246	1.06E-05
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0.75662731	NM_177551	GPR109A	8.012164248	0.001684741
0.756471214	NM_005213	CSTA	7.729512434	4.75E-05
0.755745449	NM_001953	ECGF1	8.936093526	2.46E-05
0.751898308	NM_020170	NCLN	9.8236423	0.000161535
0.751216892	NM_017983	WIPI1	8.461113686	3.33E-05
0.750664757	NM_138712	PPARG	9.079231618	0.019422964
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0.749774513	NM_016511	CLEC1A	7.673893028	4.90E-05
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0.7447948	NM_016081	PALLD	8.524116424	0.000391581
0.742192373	NM_032793	MFS2	7.626262264	0.015585651
0.741437783	NM_014322	OPN3	7.951966076	0.001396425
0.741008469	NM_016021	UBE2J1	9.025809686	1.36E-05
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0.737534984	NM_138432	SDSL	8.410344629	0.000804757
0.736191873	NM_001774	CD37	10.87593018	0.000451823
0.73553502	NM_152333	SLC25A29	7.396070803	0.004805068
0.734725189	XM_928334	NA	7.013715216	9.70E-06
0.732480875	NM_053054	CATSPER1	8.189810303	0.00040565
0.729690928	NM_022141	PARVG	10.01250128	7.29E-08
0.728611441	NM_003855	IL18R1	6.932492512	0.038781598
0.725736519	NM_005371	METTL1	7.631458732	2.49E-05
0.725177365	NM_014674	EDEM1	10.19299148	4.37E-05
0.725069369	NM_000889	ITGB7	7.139323094	0.007703629
0.723265741	NM_020179	C11orf75	10.76192214	2.94E-06
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0.720597628	NM_022120	OXCT2	6.74997272	0.001008187
0.720012757	NM_022767	ISG20L1	9.083779599	0.028780011
0.71874006	NM_031286	SH3BGRL3	11.76610947	2.73E-06
0.717971498	NM_031498	GNGT2	7.06601194	5.93E-06
0.71690457	NM_002120	HLA-DOB	6.754837084	0.002197035
0.715863284	NM_002668	PLP2	8.220082671	0.002044275
0.712904467	NM_019043	APBB1IP	10.19835122	7.16E-06
0.712185084	NM_014286	FREQ	6.661511574	9.53E-06
0.710439344	NM_001375	DNASE2	9.198991403	0.001574218
0.709758499	NM_016362	GHRL	7.276790518	0.012489773
0.708486648	NM_005620	S100A11	11.03346715	1.51E-05
0.707701919	NM_012486	PSEN2	8.059737947	2.36E-05
0.707095527	NM_006573	TNFSF13B	10.64525085	0.001253453
0.706456056	NM_006344	CLEC10A	9.542046768	0.000264421
0.70538979	NM_033500	HK1	11.11651743	8.72E-07
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0.702817304	NM_013439	PILRA	10.03019208	2.10E-05
0.702802963	NM_025228	TRAF3IP3	7.711558091	3.33E-05
0.70251023	NM_003494	DYSF	8.180968222	0.001229581
0.702252379	NM_014376	CYFIP2	7.959694334	2.57E-05
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0.698449491	NM_003998	NFKB1	12.15417587	0.014938985
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0.690723861	AK096179	C7orf40	9.662873618	0.005655352
0.690514943	BM997836	NA	7.157214401	9.71E-05
0.690150847	XM_930239	LOC255809	8.228455727	0.000193493
0.687532429	NM_022367	SEMA4A	9.376192527	0.00995051
0.686366687	XM_051862	FAM108C1	7.070056218	0.005196751
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0.678915725	NM_002208	ITGAE	8.538722396	0.000366282
0.674727752	NM_024430	PSTPIP2	8.365601112	0.012120385
0.673133272	BX538009	HIPK2	8.334674113	0.00047034
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0.665097132	NM_001165	BIRC3	10.29118521	0.004809948
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0.664057024	NM_030622	CYP2S1	7.262840209	9.71E-05
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0.654264806	NM_003937	KYNU	10.01457101	0.012721107
0.653294112	NM_000576	IL1B	12.1285733	0.026168492
0.652705895	NM_005078	TLE3	7.710584712	0.000232367
0.651908279	NM_014441	SIGLEC9	8.22880883	6.77E-06
0.650917028	NM_002053	GBP1	8.364798567	0.045954162
0.650643057	NM_000873	ICAM2	9.229849589	2.74E-05
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0.647064398	NM_004271	LY86	11.46581491	0.000254686
0.645964386	BX417162	NA	8.698476145	0.023963744
0.645812957	NM_020125	SLAMF8	8.447105898	0.000674773
0.643633655	NM_007074	CORO1A	10.28499251	0.004186352
0.64242129	NM_017803	DUS2L	8.148481126	0.000171892
0.641830585	NM_001141	ALOX15B	6.44166624	4.71E-05
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0.639936435	NM_002654	PKM2	8.339913509	0.000225008
0.639795972	NM_002346	LY6E	9.692645753	0.029783035
0.639503956	NM_006018	GPR109B	7.933037897	0.0008782013
0.63939069	NM_000887	ITGAX	7.003529546	0.000333853
0.637852413	XM_938449	NA	7.323075209	1.54E-07
0.637233302	NM_005768	MBOAT5	8.98743102	2.94E-06
0.635820096	NM_201554	DGKA	8.189733465	0.001552032
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0.63414169	NM_016002	SCCPDH	7.826978024	0.000466734
0.630286122	NM_025106	SPSB1	6.68248301	0.000455466
0.630010738	NM_000246	CIITA	8.475806503	0.001710748
0.628955947	NM_181755	HSD11B1	6.616916178	0.000417362
0.628771833	XR_001023	NA	6.961569315	0.00172185
0.628745502	NM_024309	TNIP2	9.55773527	0.000391581
0.628050322	NM_002119	HLA-DOA	9.714164062	0.0337653
0.627597433	NM_018950	HLA-F	10.51477035	0.008758839
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0.625861291	NM_012068	ATF5	10.40233013	0.007779937
0.625755258	NM_000574	CD55	11.53235789	0.000519505

0.622726132	NM_030767	AKNA	9.171873438	0.001517556
0.621317505	NM_014385	SIGLEC7	7.345385232	0.000121863
0.61972395	NM_198175	NME1	9.804222421	0.001776003
0.617066962	NM_003379	VIL2	12.0576051	0.008504736
0.616982469	NM_006714	SMPDL3A	9.507705888	0.02447227
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0.616638938	NM_001011	RPS7	7.270327869	7.16E-06
0.616385829	NM_002738	PRKCB1	11.11987193	0.001048859
0.612948516	NM_025224	ZBTB46	7.872417455	0.005156187
0.612256179	NM_016033	FAM82B	8.666608645	3.63E-06
0.610709729	NM_052836	CDH23	6.615779896	0.000527371
0.608208448	NM_021173	POLD4	8.88230781	3.78E-05
0.607299557	NM_018117	BRWD2	9.251197222	0.000459426
0.607026204	NM_024571	C16orf33	9.086434095	0.000636266
0.604843718	NM_004120	GBP2	10.91042578	0.000937022
0.604011669	NM_018990	CXorf9	9.839420481	0.001742578
0.604005822	NM_145252	LOC124220	7.043151104	0.000162691
0.603835413	NM_003253	TIAM1	7.432544468	0.003999602
0.599743694	NM_000956	PTGER2	8.839956976	0.008007047
0.598905967	NM_022555	HLA-DRB3	12.20063382	0.013479787
0.598713236	NM_197953	NA	8.259303655	0.000185488
0.597665439	NM_003043	SLC6A6	7.381557447	0.000507108
0.59662908	NM_002164	INDO	6.523881089	0.00238671
0.594827801	NM_000638	VTN	6.297188974	2.23E-05
0.593285447	NM_138493	C6orf129	8.193082799	0.000269847
0.593123535	NM_153449	SLC2A14	7.016326658	0.00427507
0.592808523	NM_130772	S100Z	7.450395515	0.000121863
0.592442068	NM_173621	NA	8.364917717	0.00488541
0.592025342	NM_003374	VDAC1	10.19491736	0.000287078
0.591849684	NM_181986	LILRA5	7.947501714	5.07E-05
0.591633338	NM_003254	TIMP1	13.02737273	0.010008094
0.591474204	NM_003373	VCL	9.926271836	0.002562838
0.589866502	NM_022740	HIPK2	8.938801181	0.000273442
0.589489114	NM_020177	FEM1C	9.599177579	0.001076588
0.589405216	NM_178174	TREML1	6.538987525	8.07E-06
0.589321451	NM_024681	KCTD17	9.270698816	0.000104065
0.589128743	NM_005109	OXSRI	10.39651628	0.00260545
0.586997155	NM_001775	CD38	7.085815686	0.008897818
0.586717842	NM_032242	PLXNA1	8.01363609	0.001512173
0.586644608	NM_020223	FAM20C	6.931332966	2.80E-05
0.586284076	NM_030808	NDEL1	11.64720628	0.023529538
0.585450798	NM_006002	UCHL3	9.057698647	3.84E-06
0.585216398	NM_174983	C19orf28	8.731274595	0.000391581
0.584923197	NM_007011	ABHD2	7.427279209	2.86E-06
0.583730925	NM_178129	P2RY8	8.224831264	0.004648329
0.582400232	NM_005797	MPZL2	7.334994233	0.043647878
0.580319804	NM_016619	PLAC8	7.9633418	0.011964033
0.57748056	NM_001229	CASP9	7.131327847	0.007565591
0.57695085	NM_002631	PGD	10.39553355	0.000307277
0.575232497	XM_929560	NA	7.041192592	1.47E-05
0.574787709	NM_012219	MRAS	7.101358346	0.026075938
0.574475905	NM_181701	QSOX2	7.921014135	0.000109174
0.574062618	NM_001013836	MAD1L1	7.90726438	0.000564128
0.573640489	NM_006821	ACOT2	7.028627881	5.11E-05
0.573408655	NM_173798	ZCCHC12	7.008477607	0.006915348
0.572635742	NM_003059	SLC22A4	7.162900119	0.013733537
0.571942521	NM_213636	PDLIM7	7.49910391	9.20E-06
0.57150654	NM_002046	GAPDH	11.40367816	0.000651577
0.57134821	NM_001323	CST6	6.783744023	1.66E-05
0.571270873	NM_031409	CCR6	6.421525922	0.001130585

0.570601437	NM_001002857	ANXA2	8.565023576	0.010498339
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0.568816933	XM_929879	NA	9.327943782	2.12E-05
0.568672824	NM_024734	CLMN	7.387941845	8.64E-05
0.567442717	XM_930107	LOC653382	8.918520543	0.003973458
0.56717352	NM_000402	G6PD	8.097414025	1.67E-05
0.567032723	NM_002994	CXCL5	6.49287518	2.80E-05
0.565011953	NM_001217	CA11	6.857826567	0.000553947
0.564012355	NM_152621	SGMS2	7.844193055	0.00096618
0.561832112	NM_006674	HCP5	9.94849352	0.016867126
0.560372385	NM_002818	PSME2	11.20359987	0.000181733
0.560248896	NM_005301	GPR35	7.333171931	0.043426962
0.56003436	XM_926881	NA	7.786668868	0.001043861
0.559812908	NM_001013663	LOC391356	7.74092905	0.000663497
0.559120241	NM_004894	C14orf2	8.837558224	0.000983371
0.559005337	NM_001974	EMR1	7.440911146	0.013709356
0.558599882	NM_012411	PTPN22	7.039395234	2.26E-05
0.557095951	NM_001024024	GCH1	8.388417944	0.003296566
0.555906867	NR_001561	CYCSL1	9.048004192	0.000816746
0.555869901	NM_003618	MAP4K3	7.384826756	0.000369042
0.555588033	NM_001776	ENTPD1	9.103255535	0.001742578
0.555521708	NM_133493	CD109	6.552177161	2.47E-06
0.55537498	NM_019593	RP5-1022P6.2	9.097395621	0.031338591
0.554187782	NM_002305	LGALS1	13.34174387	0.002002558
0.553970387	NM_002432	MNDA	10.76255157	0.026156257
0.553615974	NM_000690	ALDH2	10.73881854	0.01780808
0.553253371	NM_172313	CSF3R	8.162601906	0.000270926
0.553163049	NM_032343	CHCHD6	7.371271889	0.000640852
0.553041758	NM_015995	KLF13	9.848251942	0.004106995
0.552821641	NM_004556	NFKBIE	8.77292436	0.003226502
0.551855363	NM_207584	IFNAR2	9.247235867	0.000713823
0.551697255	NM_153211	C18orf17	8.2477978	0.001153073
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0.547599126	NM_054014	FKBP1A	8.257362185	0.035745812
0.547581941	NM_052963	TOP1MT	6.962652875	7.78E-05
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0.544054212	NM_133328	DEDD2	11.19655838	0.047241619
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0.543541439	XM_926168	NA	8.85543044	4.98E-06
0.543317156	NM_176812	CHMP4B	9.620048523	0.000166939
0.543312625	NM_006678	CD300C	9.344559245	0.007674459
0.543247284	NM_005418	ST5	6.559466097	0.000185488
0.542820521	NM_004910	PITPNM1	9.479786792	0.001262208
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0.539218872	NM_025204	TRABD	11.2299063	0.002712805
0.537853007	NM_024692	CLIP4	8.208748397	0.000564019
0.537204307	NM_006519	DYNLT1	10.45224939	0.000237198
0.536614712	NM_002737	PRKCA	7.460535995	0.038123221
0.535325577	NM_016183	MRTO4	7.304237611	0.001196807
0.5350559	CR743148	NA	7.131636126	0.042330111
0.535039917	NM_033201	C16orf45	6.750787895	1.02E-05
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0.534337566	NM_145058	MGC7036	11.28787202	0.001566368
0.533347317	NM_000405	GM2A	11.6208467	0.001689264
0.530599605	NM_145293	EEF1DP3	7.057026843	0.000100758

0.528265784	NM_001987	ETV6	9.623467568	3.33E-05
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0.527774347	NM_021188	ZNF410	8.987210854	0.000249728
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0.527022293	NM_139207	NAP1L1	9.334542627	0.006396521
0.526776584	NM_005558	LAD1	6.310759574	0.001039196
0.526717598	NM_001431	EPB41L2	8.739024074	0.005384833
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0.525381375	NM_006339	HMG20B	7.347219097	0.000558152
0.524057117	XM_937997	NA	6.884607173	0.000744051
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0.520275313	NM_022893	BCL11A	7.153588949	4.90E-05
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0.514672485	NM_182538	SPNS3	6.653569134	0.006737487
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0.51398895	NM_080914	ASGR2	8.539494067	0.024693753
0.512205558	NM_004811	LPXN	11.29108292	0.006914286
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0.510834801	NM_005274	GNG5	9.710904556	0.00211877
0.510435399	NM_032857	LACTB	11.36322319	0.007134702
0.510221176	NM_003819	PABPC4	10.99883496	0.000592576
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0.509607526	XM_937710	SEC11B	8.712258276	0.000106773
0.509487735	NM_032345	WIBG	8.395048753	0.00068405
0.509240671	NM_017816	LYAR	9.001256204	0.000519505
0.509207699	NM_014339	IL17RA	8.736195223	0.010954182
0.509010439	XM_937508	LOC387934	6.450370099	0.000750557
0.508920677	NM_053275	RPLP0	9.518198724	2.61E-05
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0.50829615	NM_001009551	CNIH	9.705644338	0.000301204
0.507762467	NM_016382	CD244	7.53640094	0.001749503
0.507624914	NM_198719	PTGER3	6.471420816	0.006031585
0.506887479	NM_005745	BCAP31	10.95712693	2.21E-05
0.505934127	NM_203379	ACSL5	10.0196454	0.006057013
0.505807677	NM_006864	LILRB3	11.38921399	0.004472526
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0.502323488	NM_013322	SNX10	11.51090501	0.000766603
0.502053362	NM_015684	ATP5S	8.09808168	0.000620926
0.501968041	NM_052963	TOP1MT	7.142685955	1.54E-05
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0.500718182	NM_025164	KIAA0999	9.398670132	0.00018294
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0.499336698	NM_147200	TRAF3IP2	8.052205679	0.009388185
0.499218844	NM_024298	LENG4	9.39429682	0.025916385
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0.4973265	XM_927071	LOC643790	7.201420775	0.000802228
0.496817863	NM_030789	HM13	8.788651501	0.024374902
0.496642702	NM_004947	DOCK3	6.446888514	2.68E-05
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0.493468332	NM_001684	ATP2B4	9.789204184	0.001341873
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0.493211481	NM_000785	CYP27B1	6.440149735	2.97E-05
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0.490694729	NM_005001	NDUFA7	9.270330719	0.001741088
0.488972866	NM_001428	ENO1	12.52385287	8.55E-06
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0.486623215	NM_001995	ACSL1	9.230924703	0.005922107
0.486472048	NM_016627	AMZ2	10.31366839	0.000543351
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0.480776562	NM_015474	SAMHD1	7.88822919	0.018590068
0.480614332	NM_002468	MYD88	10.46109102	0.001354778
0.48044573	NM_002231	CD82	7.166956611	9.15E-05
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0.476548002	NM_002828	PTPN2	7.960312647	0.006864705
0.476519646	NM_001905	CTPS	7.58604307	0.000575793
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0.474545473	NM_022355	DPEP2	10.43616536	0.000287837
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0.472062852	NM_198573	C9orf165	6.540971215	0.008854726
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0.468329026	NM_000877	IL1R1	6.537457835	2.23E-05
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0.464100561	NM_016337	EVL	11.45999433	0.000511834
0.463697027	NM_012258	HEY1	6.728959489	0.032289588
0.46364249	XM_939432	NA	6.467621922	0.007469372
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0.462599445	NM_015440	MTHFD1L	7.042961973	0.007068295
0.459468666	XM_936333	NA	7.504276933	0.000502284
0.459149429	NM_016498	MTP18	8.3017006	0.002284194
0.458477765	NM_138418	C16orf14	7.292468135	0.000391581
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0.457734223	NM_004334	BST1	8.060758435	4.90E-05
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0.457659307	NM_020169	LXN	8.548521352	0.043769643
0.457640598	NM_002444	MSN	12.20921162	0.00021062
0.457099622	NM_014002	IKBKE	7.499789823	0.005462548
0.457020154	NM_014241	PTPLA	6.454089895	3.45E-06
0.456982406	NM_025008	ADAMTSL4	7.343110659	0.000540415
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0.456051702	NM_015704	D15Wsu75e	8.693422609	0.002485625
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0.455092546	NM_014175	MRPL15	10.09110125	0.028232052
0.455057583	NM_017829	CECR5	9.673034586	0.03023712
0.454601458	NM_002862	PYGB	8.693199999	0.000657325
0.454084572	NM_152335	C15orf27	6.474518043	2.14E-05
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0.45261967	NM_018715	RCC2	11.54981303	0.022450602
0.452489679	NM_002629	PGAM1	8.25524234	0.000457786
0.452197867	NM_001009936	PHF19	7.680942923	0.004809948
0.452169342	NM_006866	LILRA2	10.19184669	0.049849251
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0.45157363	NM_001033030	FAIM	6.652207166	8.30E-05
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0.450384802	NM_001024	RPS21	9.690300131	0.00226334
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0.4485267	NM_001030018	APRT	9.394283477	0.000143111
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0.447079259	NM_002791	PSMA6	9.085790617	0.002162052
0.446762884	NR_002203	FTHL8	9.629356184	0.004639921
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0.445463556	NM_033051	SLC46A2	7.284061589	0.04234172
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0.444374484	NM_182665	RASSF5	7.491799339	0.020408429
0.443365912	NM_001785	CDA	7.709325877	0.001550865
0.443062251	NM_139062	CSNK1D	8.943891696	0.010641255
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0.441302065	NM_005823	MSLN	6.50426141	0.009200475
0.440532676	NM_001003794	MGLL	6.854789271	0.009652437
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0.438006972	NM_021994	ZNF277P	9.366224656	0.013179808
0.437623632	NM_002790	PSMA5	10.46307687	0.000301204
0.437289956	NM_002161	IARS	8.469787393	0.003455011
0.436612409	NM_182759	FAM19A3	6.359151232	0.000393273
0.436284954	NM_003107	SOX4	7.523411015	0.044813737
0.435751819	NM_019107	C19orf10	10.97883096	0.000357187
0.434561488	NM_148919	PSMB8	9.512386045	0.005314097
0.433789007	NM_170672	RASGRP3	8.14245711	0.022204409
0.433674979	NM_005128	DOPEY2	7.6250314	0.000541332
0.433610805	NM_022842	CDCP1	7.240829153	0.000216388
0.432369347	NM_022464	SIL1	10.01464226	4.12E-05
0.432288854	NM_004383	CSK	10.54225909	0.000277647
0.43198387	NM_152318	C12orf45	8.292470838	0.011563378
0.431092571	NM_006634	VAMP5	9.8703457	0.047741495
0.430586344	NM_014573	TMEM97	7.847792895	0.007362913
0.429990889	NM_000271	NPC1	8.967693916	0.01094265
0.429720657	NM_152435	AMDHD1	7.218681235	0.023964625
0.429707099	NM_001029891	PGAM4	8.995305046	0.010387271
0.429291111	NM_031311	CPVL	12.00019037	0.007999891
0.429258612	NM_001003725	NA	8.247698911	0.001989044
0.428601982	XM_944890	NA	7.813106861	0.000722811
0.428557306	NM_014906	PPM1E	6.258722054	5.90E-05
0.427022295	NM_147161	ACOT11	6.941790024	0.014885801
0.426802281	NM_175052	ST8SIA4	8.716834577	0.005662713
0.426196587	NM_198434	AURKA	7.522282336	0.015448888
0.425981036	NM_020676	ABHD6	8.276341219	2.23E-05
0.425178847	NM_017845	COMMD8	9.243547377	0.032316955
0.422231725	NM_005855	RAMP1	6.360707016	0.001670915
0.422143707	NM_005005	NDUFB9	8.119302236	0.002421989
0.421751894	NM_021209	NLRC4	7.816617281	0.002992801
0.421495111	NM_001779	CD58	9.466193899	0.00314401
0.421488771	NM_007219	RNF24	8.182247511	0.011882718
0.421392631	NM_001030001	RPS29	9.791545816	0.011593125
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0.419836732	NM_003095	SNRPF	10.55053027	0.009892354
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0.410908463	NM_130443	DPP3	7.87797943	2.20E-06
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0.399666711	NM_031924	RSPH3	7.702483866	0.023153614
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0.392905946	NM_002337	LRPAP1	9.846660979	0.000188084
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0.381906181	NM_002899	RBP1	6.3730684	0.003835553
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0.380137215	BX110988	NA	6.357047628	0.008200554
0.380033664	NM_001002	RPLP0	12.95776891	0.007061584
0.379950249	NM_024299	C20orf149	7.166042623	0.030028108
0.379588151	NM_006294	UQCRB	7.972661319	0.015141224
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0.378309287	NM_002786	PSMA1	8.462665305	0.001055028
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0.377668612	NM_005202	COL8A2	7.581869521	0.007958199
0.37734001	NM_000403	GALE	7.801121895	0.013903721
0.377216556	NM_003883	HDAC3	9.498306628	0.022181636
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0.3761529	NM_021905	GABBR1	9.248490323	0.005753222
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0.374369438	NM_006702	PNPLA6	10.14919879	0.014654222
0.374179529	NM_194430	RNASE4	8.276809139	0.016118229
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0.373278991	NM_001394	DUSP4	6.318523524	6.94E-05
0.372846646	NM_019112	ABCA7	7.597820597	0.033029168
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0.365900696	NM_014790	JAKMIP2	6.319936126	0.000275182
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0.36497619	NM_001005176	SP140	6.897020244	0.001845773
0.36459468	NM_030877	CTNBNB1	9.746933718	0.000138658
0.364095325	NM_002415	MIF	10.52571435	0.02035072
0.36398395	NM_005028	PIP4K2A	8.512624731	0.003678877
0.363714166	NM_024101	MLPH	6.292014678	0.010541227
0.363449642	NM_000033	ABCD1	7.531678613	0.000434256
0.363436066	NM_006003	UQCRCF1	10.97573075	0.000127191
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0.361512787	NM_021822	APOBEC3G	7.616085771	0.016256888
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0.361251753	BU151653	NA	6.92899188	0.031343742
0.361207818	NM_198446	C1orf122	8.484686188	0.013750393
0.360881571	NM_001771	CD22	6.349614521	0.002063545
0.360855558	NR_002205	FTHL12	10.0932116	0.001620471
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0.360397052	XM_928670	NA	11.29784564	0.022518432
0.359749582	NM_024329	EFHD2	12.56636546	0.010871963
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0.359231665	NM_145799	Sep-06	7.753466804	0.013413403
0.358978097	NM_015432	PLEKHG4	6.497255747	5.20E-05
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0.358370463	XM_939738	LOC387867	11.69582901	0.001865395
0.358238255	NM_001516	GTF2H3	6.97247924	0.001261853
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0.355718335	NM_001607	ACAA1	10.10164242	0.001161664
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0.355463563	NM_203301	FBXO33	9.876397279	0.007371985
0.355440148	NM_206857	RTN1	10.86881697	0.007050789
0.355102212	NM_198951	TGM2	6.526466453	0.002709166
0.354787843	NM_001024921	RPL9	9.20417176	0.012260699
0.354538874	NM_080685	PTPN13	6.377074308	0.001492576

0.353649958	NM_005810	KLRG1	6.707638212	0.011672339
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0.353269283	NM_005647	TBL1X	9.663010539	0.005605284
0.353129483	NM_016433	GLTP	10.75074612	0.000101017
0.352979182	NM_001359	DECR1	10.65101761	0.011021089
0.352709043	NM_175862	CD86	11.58288071	0.000672365
0.352608637	NM_032738	FCRLA	6.187806439	1.15E-05
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0.350418922	XM_941546	NA	6.495484489	0.000939376
0.350293521	NM_006949	STXBP2	10.60034932	0.012528087
0.34948112	XM_938912	TIFAB	6.411929885	0.016301491
0.349452014	NM_016391	HSPC111	8.449000681	0.030535484
0.349144807	NM_000404	GLB1	8.826988665	0.000916988
0.348815667	NM_181507	HPS5	8.284537616	0.009135251
0.348178511	NM_016535	ZNF581	10.22881434	0.027043792
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0.34809257	NM_001064	TKT	12.54553863	0.011563378
0.347872857	NM_018234	STEAP3	8.181534618	0.016031275
0.346265406	NM_006303	JTV1	9.691149448	0.04094942
0.345752466	NM_002971	SATB1	7.224140797	0.017765182
0.345744949	NM_006114	TOMM40	9.349262983	0.020798727
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0.343794886	NM_080549	NA	6.888120908	0.006010441
0.343578063	NM_014754	PTDSS1	10.65425558	0.00086282
0.343221738	XM_930772	NA	9.26674821	0.0136492
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0.342680438	NM_002496	NDUFS8	10.67663767	0.016732451
0.34234531	XM_936258	LOC642115	9.130692971	0.013158348
0.341974661	NM_003580	NSMAF	10.13760679	0.022471724
0.341779612	NM_012264	TMEM184B	8.105892994	0.024746406
0.341749284	NM_138392	SHKBP1	8.860488606	0.001552032
0.341495717	NM_012280	FTSJ1	8.619617467	0.000638261
0.341339009	XM_942165	NA	11.99301105	0.026177029
0.341298838	NM_001662	ARF5	10.58762782	0.001287897
0.341113983	NM_020375	C12orf5	8.17464599	0.001005685
0.340963027	NM_007353	GNA12	6.819668868	0.009311671
0.340587764	NM_000365	TPI1	11.55779484	0.000519505
0.340467765	NM_005530	IDH3A	8.609755296	0.022224229
0.340101297	XM_929572	hCG_1790806	10.53922257	0.000193384
0.339956527	NM_005191	CD80	6.491003605	0.00013726
0.339734447	NM_014287	NOMO1	7.845006285	0.036164801
0.33950135	NM_003074	SMARCC1	9.506921869	0.020490063
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0.339037109	NM_152308	C16orf75	6.565785181	0.006722658
0.338698316	NM_006452	PAICS	8.845666279	0.001884301
0.338442982	NM_032383	HPS3	8.116569948	0.025461187
0.338437779	NM_022754	SFXN1	6.920108391	0.011334515
0.338352818	NM_002094	GSPT1	10.80700856	0.004746835
0.337379832	NM_002726	PREP	8.575909265	0.020408429
0.33730707	NM_184041	ALDOA	11.3986142	0.037143219
0.337144586	NM_032356	LSMD1	10.86167955	0.014509023
0.336380761	NM_002221	ITPKB	8.272268956	0.005744654
0.336156799	NM_001003796	NHP2L1	8.095833163	0.002624479
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0.335475472	NM_000992	RPL29	7.082233264	0.006768143
0.334924261	XM_927199	NA	9.568481	0.010021144
0.334735055	NM_003481	USP5	9.206980347	0.000620926
0.334708706	NM_024122	APOO	8.082052716	0.028232052
0.334701824	NM_006904	PRKDC	8.331353206	0.006289562
0.334687753	NM_033301	RPL8	7.101025264	0.000981952
0.33462158	NM_024308	MGC4172	7.219352201	0.002114215
0.334619699	NM_003037	SLAMF1	6.495390093	0.035244709
0.334137506	NM_019024	HEATR5B	8.507148794	0.023496218
0.334074906	NM_199184	C6orf108	9.842957835	0.007801665
0.333858504	NM_004145	MYO9B	9.972888767	0.000655441
0.333849366	NR_001446	ANXA2P3	6.90025951	0.001499287
0.333704727	NM_018064	C6orf166	11.12030638	0.024312016
0.333233429	NM_003839	TNFRSF11A	7.226484198	0.0157868
0.333228368	NM_018188	ATAD3A	7.535581369	0.002694472
0.333200254	NM_001457	FLNB	6.749050751	0.005592297
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0.33220325	NM_181696	PRDX1	12.97588122	0.005744654
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0.329798186	NM_032847	C8orf76	9.755371625	0.009575883
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0.319726892	XM_941821	LOC652388	7.013232387	0.001553481
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0.318063831	NM_006537	USP3	10.66244392	0.00957502
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0.314376731	NM_022086	NA	7.105351248	0.00648906
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0.313303796	NM_001007075	KLHL5	9.465145477	0.005272215
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0.312496341	NM_003916	AP1S2	12.59225362	0.028658062
0.312453427	XM_928429	NA	10.59420551	0.008908687
0.312362226	NM_178230	PPIAL4	7.600469621	0.000301203
0.312204903	NM_007262	PARK7	11.63436144	0.004700773
0.31187359	NM_006280	SSR4	12.09277859	0.022326642
0.311718237	NM_178044	GIYD2	7.577616881	0.000909733
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0.310351495	NM_018571	ALS2CR2	8.343828496	0.007871458
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0.30985235	NM_005765	ATP6AP2	12.16504942	0.000595559
0.309644448	NM_005622	ACSM3	6.40340563	0.001002991
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0.307483622	XM_292085	PPIAP8	13.22540952	0.011439917
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0.305435374	NM_002882	RANBP1	8.94114234	0.015056684
0.305398913	NM_014669	NUP93	9.89055508	0.003773555
0.304870902	NM_002709	PPP1CB	10.48336267	0.000391859
0.304676971	NM_015059	TLN2	6.494126645	0.002581109
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0.304216701	NM_032340	C6orf125	9.445200106	0.021680344
0.304030889	NM_016057	COPZ1	9.609116734	0.002911143
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0.303034515	AK023329	PIP4K2A	11.55445058	0.014679771
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0.301120684	NM_014056	HIGD1A	10.28927269	0.011265279
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0.300872943	NM_003748	ALDH4A1	6.877325656	0.005388383
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0.300040398	NM_000211	ITGB2	13.56782533	0.003922352
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0.299396011	NM_017849	TMEM127	8.588091178	0.000510392
0.299257856	NM_000578	SLC11A1	7.302837022	0.021067907
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0.29873902	NM_001033583	ACOT9	9.410946747	0.008029066
0.298494362	NM_138774	C19orf22	9.766951113	0.005296649
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0.296335399	NM_000291	PGK1	11.58513779	0.015852782
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0.295310986	NM_001006618	MAPKAP1	6.756604541	0.001704426
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0.294471195	NM_024940	DOCK5	7.161509972	0.014167096
0.293769691	NM_006260	DNAJC3	7.362672499	0.014954378
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0.293676552	NM_020727	ZNF295	7.826500618	0.020421108
0.293462331	NM_002708	PPP1CA	10.10334691	0.01704563
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0.2921546	NM_004741	NOLC1	7.375631325	0.006530544
0.292118839	NM_184041	ALDOA	11.7004482	0.000511834
0.291940409	NM_054034	FN1	6.196408708	0.032261671
0.291901171	NM_002794	PSMB2	10.31728844	0.001016152
0.291616757	NM_022821	ELOVL1	8.972005644	0.002024705
0.290374519	NM_016500	CXorf26	8.859665601	0.007545151
0.290340506	NM_007237	SP140	6.812819632	0.012473379
0.290153475	NM_170753	PGBD3	6.857795159	0.004522617
0.289993905	NM_020701	ISY1	8.745139273	0.005276391
0.289883415	NM_005176	ATP5G2	7.088949577	0.018486525
0.289567229	NM_003549	HYAL3	6.850002418	0.049393938
0.289415844	NM_000872	HTR7	7.339875144	0.005141142
0.289414578	XM_379665	C9orf109	6.600428413	0.042486117
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0.288413087	NM_018052	VAC14	8.033815086	0.009682517
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0.287326008	XM_037493	SHANK3	6.374572106	0.000742729
0.286946106	NM_024706	ZNF668	8.508379488	0.03364647
0.286476449	NM_020441	CORO1B	10.19944458	0.004353733
0.285755899	NM_005805	PSMD14	8.364281316	0.007173231
0.285665909	NM_002695	POLR2E	9.120706883	0.009073896
0.285608892	XM_047499	NA	7.221138154	0.013734147
0.285361289	NM_006397	RNASEH2A	7.590698067	0.012893878
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0.284568167	NM_138820	HIGD2A	11.7853316	0.012745353
0.284436761	NM_006384	CIB1	10.63242174	0.048754794
0.284314167	NM_174902	LDLRAD3	7.142752038	0.007357487
0.283779875	XM_930111	LOC644914	10.31882296	0.003085156
0.28368781	NM_005700	DPP3	7.102106862	0.019958717
0.283683817	NM_012284	KCNH3	6.836049956	0.020661771
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0.28273956	NM_012395	PFTK1	7.088465599	0.043682999
0.282680889	NM_015374	UNC84B	8.683302225	0.03373367
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0.282176846	NM_005686	SOX13	6.471875115	0.004648329
0.282160104	NM_022737	LPPR2	7.908879582	0.021067907
0.281552092	XM_938320	LOC401317	6.166177844	0.000523959
0.281370963	NM_006456	ST6GALNAC2	7.560746471	0.01388645
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0.281125126	NM_017609	C10orf92	6.385061317	0.003985315
0.281070295	NM_004284	CHD1L	7.831188642	0.01269195
0.280496264	NM_021971	GMPPB	7.162523856	0.000405247
0.280432868	NM_018724	IL20	6.603800802	0.001335184
0.280299763	NM_022082	C20orf59	7.166604877	0.044655381
0.280214148	NM_017491	WDR1	11.75825705	0.000148532
0.280029816	NM_003757	EIF3I	11.30354395	0.001637357
0.279998696	NM_014575	SCHIP1	6.332236548	0.035455649
0.2790954	NM_001080	ALDH5A1	6.452073491	0.003971919
0.278814403	NM_002789	PSMA4	9.549125642	0.022093199
0.278126788	NM_004546	NDUFB2	12.09278594	0.004101366

0.278114545	NM_005402	RALA	9.80091903	0.015486374
0.277945555	NM_005443	PAPSS1	10.61893983	0.023004769
0.277921799	NM_002811	PSMD7	9.694146077	0.001884301
0.277578335	NM_024834	C10orf119	7.187279365	0.0266809
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0.27667104	XM_935991	NA	13.46104306	0.006804239
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0.276441338	XM_929125	LOC646163	7.034903901	0.000676339
0.276418778	NM_000153	GALC	9.89871154	0.030736529
0.276103782	NM_001013627	RP11-262D11.5	6.671442213	0.017413976
0.275813871	NM_000875	IGF1R	6.970596172	0.009362726
0.275658689	NM_004552	NDUFS5	11.28097022	0.031676769
0.275313663	NM_033069	C6orf114	6.881635232	0.021680344
0.275015395	NM_005721	ACTR3	7.626692392	0.019939973
0.274861271	NM_021210	TRAPP1	9.488503763	0.01023918
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0.274461107	NM_144563	RPIA	8.6283088	0.003178768
0.274225863	NM_001284	AP3S1	9.761665407	0.023003993
0.274200773	NM_001024959	ARPC4	11.14039543	0.003180939
0.274081358	NM_001625	AK2	8.888503243	0.003181159
0.274060257	NM_020243	TOMM22	10.07412134	0.028347494
0.273976704	BI821208	NA	7.371130969	0.021127875
0.273608855	NM_201262	DNAJC12	6.279027937	0.001124299
0.273159603	NM_004708	PDCD5	8.914980458	0.033029168
0.273140711	NM_016292	TRAP1	8.020984635	0.000140092
0.273073495	XM_945544	NA	10.90096617	0.002967664
0.272630556	NM_005507	CFL1	12.23247308	0.020041563
0.272524866	NM_018119	POLR3E	8.036405409	0.016031275
0.272252957	NM_005828	WDR68	9.730139883	0.042603918
0.272251546	NM_005342	HMGB3	6.787612264	0.025216941
0.271807649	NM_138391	TMEM183A	9.94324693	0.007788494
0.271438887	NM_194449	PHLPP	6.877622115	0.046391068
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0.270765117	NM_032444	BTBD12	7.858774279	0.00038096
0.270483725	NM_005412	SHMT2	9.81132615	0.008734226
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0.269235006	NM_002795	PSMB3	11.6605062	0.038978325
0.268646136	XM_933893	NA	6.861388246	0.003555925
0.268601152	NM_014366	GNL3	9.253149866	0.027135779
0.26848654	NM_000801	FKBP1A	10.97052573	0.028980632
0.267898303	NM_006311	NCOR1	8.205084003	0.001776003
0.26762057	NM_003449	TRIM26	9.095063106	0.016334935
0.267493457	NM_000979	RPL18	13.53540083	0.022803526
0.267285652	CR622439	RSC1A1	9.178006841	0.041842127
0.267006544	NM_004341	CAD	7.130537069	0.006776579
0.266900602	BX099667	NA	6.354417798	0.024005009
0.266597264	NM_016350	NIN	8.115495216	0.006984918
0.26646271	NM_175744	RHOC	10.21831275	0.027072727
0.266309949	XM_925896	NA	7.108961742	0.018911288
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0.26595408	NM_004541	NDUFA1	12.43592152	0.046331852
0.265636127	NM_178815	ARL5B	6.820900696	0.01006157
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0.26467845	NM_019896	POLE4	10.83357888	0.001346185
0.264644636	NM_153758	IL19	6.445579484	0.017356052
0.263943624	NM_004053	BYSL	7.470158224	0.042180987
0.2634023	NM_020383	XPNPEP1	10.31176784	0.001274192
0.263281436	NM_014260	PFDN6	8.358929291	0.031343742
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0.262991064	NM_024598	C16orf57	8.714815177	0.001356572
0.262849703	NM_015644	TLL3	8.415689397	0.030342369
0.262731389	NM_183008	UBXD5	6.938415916	0.006486282
0.262670493	NM_007229	PACIN2	10.51878279	0.022855426
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0.261199347	NM_024554	PGBD5	6.212815037	0.019035388
0.261046726	NM_033117	RBM18	8.01043919	0.034302626
0.261030756	NM_052853	ADCK2	9.741098611	0.025840871
0.2609532	NM_032319	C2orf7	8.175891531	0.003988146
0.260564822	NM_003636	KCNAB2	6.657365107	0.037366045
0.260544977	NM_000281	PCBD1	8.878179916	0.028236397
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0.260090499	NM_031280	MRPS15	9.678187578	0.029644668
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0.258493275	NM_006067	COX4NB	7.792715366	0.043214359
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0.257073747	NM_004345	CAMP	6.619219876	0.031779561
0.256613865	NM_001152	SLC25A5	12.85882012	0.003018824
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0.256171365	NM_003904	ZNF259	8.622183656	0.022521042
0.256074802	NM_004695	SLC16A5	9.172446286	0.008816549
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0.255348039	NM_001012456	SEC61G	11.45647862	0.027387766
0.255209241	NM_004965	HMG1	11.13776128	0.016084111
0.254415212	NM_013335	GMPPA	8.717227681	0.001391386
0.254204416	NM_001319	CSNK1G2	8.24215627	0.014040735
0.25397806	NM_005548	KARS	9.195527275	0.012405375
0.253947647	NM_016824	ADD3	6.806288757	0.021500555
0.253837428	NM_003707	RUVBL1	7.214387768	0.004157452
0.25383611	NM_018290	PGM2	7.925466563	0.043878079
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0.252180091	NM_018146	RNMTL1	8.59405866	0.017257438
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0.252130377	NM_014873	LPGAT1	8.418008202	0.006401635
0.251886091	NM_014222	NDUFA8	10.0966623	0.023119982
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0.251609919	NM_000714	TSPO	12.85902919	0.037100691
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0.250870605	NM_006278	ST3GAL4	7.76324686	0.026177029
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0.250407591	NM_001867	COX7C	12.74354984	0.015606722
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0.250250262	NM_003369	UVRAG	9.430180479	0.011265279
0.250214019	NM_000998	RPL37A	8.015571702	0.009237579
0.249456261	NM_002812	PSMD8	9.73654909	0.030984607
0.249106525	NM_212503	PCTK3	6.774073245	0.025536886
0.249102611	NM_033251	RPL13	6.705985226	0.015894871
0.249024053	NM_057089	AP1S1	8.301201275	0.000847973
0.248966987	CR603183	NA	6.420330535	0.041100612
0.248941394	NM_014666	CLINT1	10.23658608	0.022723769

0.248731465	NM_017653	DYM	9.625324463	0.019035388
0.248666992	NM_198938	PTGES2	7.188264163	0.047778174
0.248580541	NM_181642	SPINT1	6.597460859	0.032422556
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0.248262948	NM_001003945	ALAD	9.193555339	0.013260131
0.248107357	XM_933693	LOC440731	6.937599269	0.047762159
0.24787529	NM_018946	NANS	8.812724833	0.003900056
0.24769824	NM_000887	ITGAX	6.590050291	0.048762956
0.247191309	NM_017900	AURKAIP1	7.613038891	0.000841924
0.246426762	NM_139075	TPCN2	8.742458535	0.031374265
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0.244546815	AJ420516	LOC221710	7.289725069	0.027145543
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0.244063385	NM_015447	CAMSAP1	8.368512366	0.012246212
0.2440407	NM_015902	UBR5	8.731374651	0.023402175
0.244027972	NM_138930	DIABLO	8.888455729	0.009225476
0.243981264	NM_017832	C9orf6	7.919468869	0.016970177
0.243847147	NM_014628	MAD2L1BP	8.180666062	0.020760696
0.243726177	NM_213568	SLC39A3	6.725809554	0.022307226
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0.242950926	NM_015305	ANGEL1	7.954523366	0.014313388
0.242577511	NM_022107	GPSM3	11.24500213	0.032261671
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0.242322782	NM_017902	HIF1AN	7.500556599	0.00822992
0.241834779	NM_001640	APEH	9.786298379	0.004431725
0.241541057	NM_022894	PAPOLG	6.614625577	0.005787768
0.241447114	NM_004766	COPB2	9.53280362	0.000680334
0.241414142	NM_152227	SNX5	7.43863533	0.03490875
0.241249067	NM_001024912	CEACAM1	6.319221077	0.006938201
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0.240849778	NM_015346	ZFYVE26	9.108877562	0.00949786
0.240670959	NM_019056	NDUFB11	11.42712562	0.004584671
0.240259462	NM_024789	TMEM180	7.006495412	0.009362726
0.240258476	NM_020789	IGSF9	6.114754219	0.003260193
0.239631286	NM_022916	VPS33A	7.469121275	0.01890186
0.239493771	NM_001693	ATP6V1B2	12.49196783	0.003100013
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0.239165212	NM_014762	DHCR24	6.45531924	0.011187333
0.239038627	NM_001024736	CD276	6.482625609	0.002562838
0.238898073	NM_007285	GABARAPL2	11.0363945	0.005734344
0.238346039	NM_004544	NDUFA10	9.949151443	0.009726957
0.238026022	NM_198381	ELF5	6.299613456	0.002446128
0.23774343	NM_138787	C11orf74	8.891549892	0.030400198
0.23772335	NM_006368	CREB3	7.1211283	0.009073896
0.23740451	NM_004805	POLR2D	8.640391583	0.001608819
0.236100037	XM_945239	NA	6.896233765	0.010675749
0.236061952	NM_003800	RNGTT	7.973123228	0.027817509
0.235965549	NM_014385	SIGLEC7	6.699494597	0.011964033
0.235746819	NM_002512	NME2	11.73636634	0.010028908
0.235343414	NM_148172	PEMT	7.025022594	0.018701629
0.23509182	NM_002095	GTF2E2	10.23195221	0.005150028
0.234587397	NM_004778	GPR44	6.301411404	0.044614753
0.234363873	NM_001283	AP1S1	7.876526006	0.00694804
0.233970806	NM_016347	NAT8B	6.356756678	0.042281222
0.23390189	NM_004109	FDX1	6.348431175	0.026032402
0.233854153	NM_004205	USP2	6.476648401	0.012731607
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0.232890982	NM_002796	PSMB4	11.51288193	0.045157666
0.232782449	NM_207118	GTF2H5	9.884199459	0.031754897
0.23235714	NM_153702	ELMOD2	7.34528357	0.005655352
0.232347111	XM_945932	LYPLA2P1	7.400844906	0.015056684
0.232256448	NM_170750	PSMD10	9.818080606	0.001105591
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0.232027627	DA676811	NA	6.492631033	0.043864649
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0.231596673	NM_004092	ECHS1	9.938147831	0.008713557
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0.231306231	NM_000178	GSS	8.232879769	0.020111491
0.231207289	NM_006886	ATP5E	13.61282141	0.007486675
0.231095642	NM_018420	SLC22A15	6.88112141	0.015922446
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0.230079224	NM_016576	GMPR2	6.521149747	0.026922865
0.230036679	NM_022488	ATG3	11.03274681	0.01355539
0.229964798	NM_001897	CSPG4	6.521361875	0.035654884
0.229649026	NM_001001655	ALKBH2	6.917859371	0.01175331
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0.228999847	NM_017706	WDR55	8.311677904	0.004498482
0.228981484	NM_001018108	SERF2	12.77569556	0.007259991
0.228953854	NM_002264	KPNA1	8.294269744	0.032087276
0.228951811	NM_021826	FASTKD5	8.854278833	0.047316407
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0.228483065	NM_177403	RAB7B	6.444955927	0.028232052
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0.228229306	NM_021643	TRIB2	6.304681705	0.002957256
0.228218079	NM_017766	CASZ1	7.313391504	0.009485181
0.22810005	NM_178460	SIRPD	6.901860579	0.005633719
0.228057335	NM_020354	ENTPD7	6.699932604	0.014641558
0.227944816	NM_000819	GART	8.732611172	0.04442046
0.227673636	NM_004651	USP11	7.056318163	0.003127634
0.227669445	AK023371	NA	6.956020998	0.031380457
0.227383235	NM_080822	OVCA2	6.839772975	0.025856645
0.227167072	NM_145245	EVI5L	8.046110554	0.003392884
0.227163223	BF819904	NA	6.430929322	0.012967596
0.226958545	NM_025139	ARMC9	6.474928733	0.027278883
0.226626021	XM_941287	NA	9.18594777	0.024559755
0.226606483	NM_002437	MPV17	10.1466138	0.00013726
0.226419174	NM_152625	ZNF366	6.417201719	0.030185105
0.225720508	NM_019556	MOSPD1	7.25881579	0.037681884
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0.224946461	XM_943182	NA	6.875826907	0.041405947
0.224440228	NM_152495	CNIH3	6.20259541	0.000502284
0.224385973	NM_001690	ATP6V1A	11.17886977	0.027434491
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0.223906006	NM_015426	WDR51A	6.322922443	0.028602528
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0.222048192	NM_024331	C20orf121	7.041631386	0.028645548
0.221983018	NM_198426	CHMP2A	6.988188137	0.000312118
0.22184241	NM_016129	COPS4	8.679799444	0.033029168
0.221656082	NM_006824	EBNA1BP2	9.96871967	0.044505638
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0.220631049	NM_001659	ARF3	9.260198407	0.033113729
0.220628992	NM_020448	NPAL3	7.400579548	0.04234172
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0.220336969	NM_006109	PRMT5	8.300020003	0.004682358
0.219988365	NM_183352	SEC13	8.724397645	0.005787768
0.21935193	NM_199242	UNC13D	6.942456149	0.008016708
0.21909251	XM_930446	LOC653698	7.068590556	0.014773345
0.218934017	NM_004077	CS	11.20012082	0.006696226
0.218570591	NM_004718	COX7A2L	11.02977743	0.017296764
0.218352784	XM_944100	NA	8.742335548	0.021994475
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0.217959886	NM_006927	ST3GAL2	7.141150334	0.004584671
0.217522122	NM_001281	TBCB	10.284956661	0.041700211
0.217356454	NM_015266	SLC9A8	7.316866676	0.018741866
0.217314233	BX097705	NA	6.289846497	0.017529532
0.217249723	NM_012423	RPL13A	12.27103921	0.033916548
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0.217155009	AV681673	NA	6.179414423	0.000322511
0.216723818	NM_018087	TMEM48	7.40560202	0.042197107
0.216653849	NM_152931	CPNE1	9.789828957	0.013663498
0.216214711	NM_032907	UBL7	7.447704377	0.009762678
0.215994044	NM_178834	LAYN	6.188807393	0.020242667
0.21593792	NM_020439	CAMK1G	6.34651662	0.046911099
0.215912442	NM_000637	GSR	8.469306977	0.026032402
0.215674651	NM_014845	FIG4	9.420798377	0.022008596
0.215109015	NM_138930	DIABLO	7.063695449	0.020864514
0.21510882	NM_178232	HAPLN3	6.251309819	0.041700211
0.214875017	NM_006421	ARFGEF1	9.229114692	0.01622099
0.214423812	NM_002525	NRD1	10.45822558	0.014334776
0.214309446	NM_031892	SH3KBP1	11.14696662	0.030730641
0.214028498	NM_173662	RNF175	6.794119551	0.046191623
0.213733645	XM_292963	LOC643997	6.915493736	0.002581109
0.213530237	NM_031484	MARVELD1	8.634726642	0.002477729
0.213455308	NM_003952	RPS6KB2	7.652501012	0.008426708
0.21303266	NM_014481	APEX2	8.01886349	0.03699925
0.21281216	NM_207368	LOC348262	8.621620213	0.047196652
0.212809264	NM_016587	CBX3	8.776550461	0.009886486
0.212177929	NM_174909	TMEM167	6.787025359	0.025355834
0.212169939	XM_944921	NA	6.233893046	0.035929043
0.211987761	NM_147160	NA	6.940019536	0.030085338
0.211971622	NM_003345	UBE2I	10.95507088	0.034080952
0.211802284	NM_001005861	RYK	10.03228734	0.023915321
0.211666669	NM_175614	NDUFA11	11.15451414	0.025916385
0.210852663	XM_942035	NA	7.346318981	0.047242606
0.210647554	NM_183008	UBXD5	6.655262772	0.04436233
0.21038464	NM_006137	CD7	6.885433706	0.04759311
0.210180665	NM_198716	PTGER3	6.506615506	0.036111486
0.209840754	NM_007103	NDUFV1	9.88023316	0.021138906
0.209207316	XM_927971	NA	6.219587392	0.008605409
0.20845819	NM_003769	SFRS9	11.79995384	0.021522419
0.2079402	NM_001441	FAAH	7.086995649	0.042197107
0.207261654	NM_198189	COPS8	7.364047689	0.01739772
0.207109301	NM_014682	ST18	6.191772404	0.002225231
0.206946895	NM_198563	TMEM110	7.10690346	0.023153614
0.206944729	NM_033280	SEC11C	8.582836231	0.025780543
0.206571422	NM_023112	OTUB2	6.570669123	0.016743001
0.206548814	NM_194250	ZNF804A	6.281551057	0.020070297
0.206369789	NM_024805	C18orf22	7.002938971	0.011124991
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0.205682366	NM_014187	HSPC171	8.713912207	0.028232052
0.205273676	NM_000026	ADSL	10.39378445	0.048657733
0.204816151	NM_012447	STAG3	6.34745137	0.024579571
0.204789187	NM_004559	YBX1	12.93452726	0.024137146
0.204753791	NM_002720	PPP4C	10.67142918	0.015064739
0.204747403	NM_002493	NDUFB6	9.787298186	0.020408429
0.204471038	NM_172080	CAMK2B	6.292860456	0.015363871
0.204364378	NM_001005354	PRR13	6.706195979	0.01704563
0.204315973	NM_006000	TUBA4A	6.430803295	0.04467223
0.204093315	NM_001018073	PCK2	7.3853639	0.00663224
0.203666084	NM_001544	ICAM4	6.941059105	0.040330649
0.203539484	XM_928425	NA	6.531080338	0.024871103
0.203513326	NM_001861	COX4I1	13.51554083	0.002655676
0.203490345	NM_004247	EFTUD2	10.01683832	0.036436763
0.20346111	NM_005932	MIPEP	7.176903469	0.03106379
0.203290999	XM_928473	NA	7.36431736	0.026032402
0.203166277	NM_178865	SERINC2	6.647173373	0.028950496
0.202964705	NM_024738	C12orf49	7.402550416	0.049344023
0.202591899	NM_032025	EIF2A	10.70954139	0.044813737
0.202412087	NM_014709	USP34	8.590758165	0.024492751
0.202184017	NM_004475	FLOT2	11.32055681	0.047531584
0.201294084	NM_013336	SEC61A1	9.326536926	0.028232052
0.201229177	NM_033301	RPL8	13.52962452	0.007651585
0.201223713	BX098475	NA	6.805484911	0.022220231
0.200623523	NM_001686	ATP5B	13.211322	0.021387957
0.200583044	NM_018843	SLC25A40	6.883151795	0.049344023
0.200412275	NM_005648	TCEB1	8.848517724	0.0200119
0.200289606	NM_002792	PSMA7	10.53207217	0.045747537
0.200171234	NM_021107	MRPS12	6.734965737	0.02798333
0.19999242	NR_002557	LOC613038	6.415467541	0.015822007
0.199960357	NM_001007468	SMARCB1	8.392981817	0.021500555
0.199788294	NM_006515	SETMAR	7.88118935	0.02308922
0.199693844	NM_000789	ACE	6.236522217	0.012164124
0.199573827	NM_015414	RPL36	6.642384523	0.013564441
0.199566015	NM_181531	BTN2A2	7.266907233	0.016209999
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0.198758297	NM_015917	GSTK1	12.24900591	0.007880098
0.198154927	NM_001002002	GMPR2	9.119207435	0.024005009
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0.197913397	NM_012331	MSRA	8.157086114	0.036568598
0.197864079	W91949	NA	6.233902761	0.014413681
0.197692689	NM_001700	AZU1	6.301983899	0.026495148
0.197350028	NM_207332	ERICH1	9.295240921	0.022093478
0.197306073	NM_004814	WDR57	8.99697718	0.007956382
0.197172002	NM_206926	SEPN1	9.263169311	0.043708339
0.197048676	BC015849	NA	6.235799416	0.039238657
0.196955882	NM_198976	TH1L	9.084956681	0.014938985
0.19659293	NM_199444	COPE	10.67964606	0.031061384
0.196522732	NM_012104	BACE1	6.784844074	0.01278799
0.196146583	NM_022171	TCTA	7.575775978	0.016926714
0.195332598	NM_005814	GPA33	6.483753235	0.025557851
0.195201113	NM_007254	PNKP	8.981261026	0.033455489
0.19517299	NM_015617	PYGO1	6.095263718	0.042603918
0.195153045	NM_198066	GPNPAT1	6.926166164	0.03043592
0.194876779	NM_006815	TMED2	10.87828221	0.036676849
0.194194528	NM_024943	TMEM156	6.182954614	0.006768143
0.193910358	NM_000071	CBS	6.355748247	0.035042358
0.193540917	XM_940610	LOC347292	6.472814169	0.024579571
0.19337903	NM_003491	ARD1A	8.694449015	0.043796356
0.193258083	NM_001046	SLC12A2	6.582742236	0.013360517

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0.19303823	NM_000375	UROS	9.979331263	0.02361791
0.192844105	NM_004267	CHST2	6.601097355	0.02136338
0.192715228	NM_001001794	FAM116B	8.423425455	0.034573234
0.192601746	NM_145808	MTPN	8.80966849	0.033527993
0.192538339	NM_014413	EIF2AK1	9.354843831	0.027197221
0.192077821	NM_020186	ACN9	7.723660276	0.011439917
0.19193191	NM_002626	PFKL	9.202584739	0.012246212
0.191763676	NM_017883	WDR13	8.899097143	0.048762956
0.191687951	NM_031287	SF3B5	10.76525621	0.035619717
0.191517613	NM_023071	SPATS2	6.737992745	0.04212099
0.19128678	NM_015029	POP1	6.667629621	0.029370074
0.191074791	NM_001007027	ALG8	8.774340049	0.040342585
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0.18929814	BF239137	NA	6.935700845	0.01547582
0.189233378	NM_003765	STX10	9.925361556	0.036164801
0.189045697	XM_926591	NA	6.716657203	0.019273007
0.189012004	NM_004208	AIFM1	7.451424595	0.008093935
0.188945469	NM_152450	FAM81A	6.148258121	0.016937141
0.188878421	NM_001001414	LOC342897	6.217143686	0.007039704
0.188643328	NM_013411	AK2	7.545356817	0.010618174
0.188191533	DN997246	NA	7.379300286	0.011276265
0.187961586	NM_025215	PUS1	8.491625501	0.0275843
0.187725153	NM_001560	IL13RA1	11.56742008	0.043882964
0.187692219	NM_024076	KCTD15	6.970399209	0.009090289
0.187673455	NM_007281	SCRG1	6.392257697	0.008508624
0.18755911	NM_001970	EIF5A	10.36212019	0.013251959
0.187529827	XM_942140	LOC652608	6.296911409	0.019180186
0.186918711	NM_022480	KLHL25	6.758558405	0.04991128
0.186534314	NM_024032	C17orf53	6.738729192	0.033919353
0.18623111	NM_000980	RPL18A	13.75012507	0.047541726
0.185527459	NM_130830	LRRC15	8.478404095	0.048667311
0.185028086	NM_004278	PIGL	6.84182363	0.044274211
0.184656908	XM_935742	NA	6.630551193	0.02314509
0.184536966	NM_000927	ABCB1	6.184085961	0.011695728
0.184033793	NM_000521	HEXB	12.57938444	0.007929548
0.183360651	NM_174930	PMS2L5	7.579762986	0.024165741
0.181771794	NM_207344	SPRYD4	6.873655138	0.020798727
0.181401742	NM_000182	HADHA	9.045311831	0.039139859
0.181120407	CD369318	NA	6.237365199	0.002798992
0.180494817	NM_002455	MTX1	8.027688639	0.014334776
0.179509537	NM_001033667	LY9	6.418783946	0.032256993
0.178994171	NM_031314	HNRNPC	11.76281684	0.017943177
0.178061344	NM_001126	ADSS	6.704902517	0.016930665
0.177924597	NM_139274	ACSS2	6.136037533	0.014622201
0.177701194	XM_925973	LOC653097	6.487307598	0.011044459
0.17767967	BX102092	NA	6.40939131	0.002529004
0.177256235	XM_938297	NA	6.657793591	0.015193239
0.177017169	XM_930423	NA	10.73384867	0.049731852
0.176101943	NM_000056	BCKDHB	6.720617261	0.021119327
0.174814642	NM_199122	TBRG4	8.499618251	0.028881929
0.174761934	NM_002096	GTF2F1	9.40505125	0.016549191
0.17463056	NM_152390	TMEM178	6.248065273	0.015056684
0.174307252	NR_002207	CSNK2A1P	6.81528588	0.009391411
0.174029392	AI368246	NA	6.17179319	0.021277245
0.173893417	AW511165	NA	6.205837808	0.00663224
0.173776449	NM_004925	AQP3	6.317469405	0.033837895
0.173202493	NM_007058	CAPN11	6.249913369	0.001156014

0.172905595	NM_030949	PPP1R14C	6.141739746	0.047686861
0.172513952	XM_930231	NA	6.775600724	0.025618587
0.171305773	NM_001018040	NA	6.44922499	0.010452502
0.171072381	NM_001004126	ZNF93	6.618345335	0.020798727
0.171037437	CN282365	NA	6.046904823	0.042010368
0.170305895	NM_014838	ZBED4	8.332657744	0.020193551
0.169997565	NM_001136	AGER	6.343176499	0.019324517
0.169490481	BC035146	WNK1	9.228684439	0.039344554
0.16946723	NM_152512	ENTHD1	6.248180154	0.021627438
0.169046362	NM_016518	PIPOX	6.759225346	0.016692715
0.168916164	NM_001009937	SLC25A26	7.469500875	0.015930158
0.168770847	XM_942263	NA	7.148565175	0.045266458
0.166754935	NM_002058	GGT3	6.50869007	0.028323699
0.166042601	NM_032966	BLR1	6.388661265	0.047541726
0.165708191	NM_006420	ARFGEF2	7.308774866	0.042023834
0.165011655	NM_022372	GBL	7.901940194	0.048820929
0.164966664	NM_020675	SPC25	6.27484882	0.021698213
0.164821647	XM_015717	LOC149224	13.39479215	0.035654884
0.164121786	NM_005281	GPR3	6.438398047	0.038416804
0.162938919	NM_003917	AP1G2	8.102189344	0.049433212
0.162529624	NM_016397	NA	8.692935251	0.04059819
0.162357299	NM_007368	RASA3	7.695151487	0.032037532
0.161348368	NM_015541	LRIG1	6.555198628	0.035833148
0.160492251	NM_017705	PAQR5	6.170111912	0.024932168
0.160317642	NM_000079	CHRNA1	6.102700653	0.026303892
0.158656706	NM_002185	IL7R	6.174558046	0.023728469
0.158410761	NM_194318	B3GALTL	6.992782179	0.033272171
0.156915747	XM_942774	NA	6.012486421	0.047240506
0.156050238	XM_497498	NA	6.317608261	0.049849251
0.155800491	XM_926301	hCG_1999814	6.124445145	0.026598468
0.155771295	NM_016055	MRPL48	8.709901752	0.024969464
0.15573875	NM_006584	CCT6B	6.683196244	0.025318217
0.1556641	NM_000976	RPL12	13.60913885	0.032968398
0.155570845	NM_001010971	SAMD13	6.20750015	0.025856645
0.154955316	NM_002817	PSMD13	8.091015409	0.044153885
0.154217805	NM_001646	APOC4	6.097790908	0.016922088
0.154205578	NM_000666	ACY1	7.531002338	0.014519717
0.153020586	XM_944937	C14orf72	6.247591027	0.027387766
0.152822918	DB338043	NA	6.074228667	0.031754897
0.152337293	NM_025149	FLJ20920	7.266766202	0.038669055
0.152275089	NM_002652	PIP	6.146923626	0.047276895
0.151943812	NM_003133	SRP9	7.484317861	0.041292503
0.151048211	NM_001033030	FAIM	6.302906749	0.019812189
0.150373425	NM_174855	IDH3B	10.83655019	0.022803526
0.146139094	NM_001008910	STK16	6.370618068	0.028649151
0.145360815	XM_946079	NA	8.319586971	0.034334096
0.144606232	XM_934846	NA	6.350380091	0.018383296
0.143250165	NM_022475	HHIP	6.221829926	0.028648321
0.142467547	NM_001031693	HHLA3	6.360342751	0.035345314
0.141206342	NM_144772	APOA1BP	7.930515856	0.032547886
0.138633857	BF508375	NA	6.256736395	0.026585134
0.137947422	XM_926590	LOC653240	6.279136069	0.039056423
0.136150777	NM_001513	GSTZ1	6.594250146	0.024572146
0.135791439	NM_021952	ELAVL4	6.22107406	0.036590523
0.135778097	BF944492	NA	5.997324514	0.01356002
0.135135049	XM_934138	NA	6.143400306	0.038958892
0.134005213	NM_002568	PABPC1	12.89954787	0.034637415
0.132385557	NM_001013627	RP11-262D11.5	6.324406599	0.020961693
0.132304804	NM_032861	SERAC1	7.051441901	0.023119982
0.132107656	NM_006755	TALDO1	12.13710029	0.036830851

0.131974799	AI668700	NA	6.242370238	0.033880735
0.131171247	NM_004609	TCF15	6.060729544	0.021822667
0.130828842	NM_002285	AFF3	6.309035946	0.037495129
0.13067344	AI824609	NA	6.324126322	0.031343742
0.130523672	BQ219795	NA	6.272963822	0.018851058
0.128874996	NM_170743	IL28RA	6.186963061	0.046375997
0.128285488	AA621065	NA	6.218029218	0.045433186
0.127336866	NM_020445	ACTR3B	6.2773425	0.04518919
0.126249766	NM_183239	GSTO2	6.413869752	0.049686727
0.12558916	NM_152619	NA	6.175149938	0.047434989
0.12526327	CA413053	NA	6.095514067	0.033867386
0.121391678	BQ184196	NA	6.033087347	0.027623141
0.121180105	CB999223	NA	6.092237441	0.048273765
0.11978904	NM_172366	FBXO16	6.143080601	0.037581708
0.118455136	AA180967	NA	6.30203921	0.047461463
0.116911181	NM_015396	ARMC8	7.327248107	0.049487527
0.1126879	NM_001254	CDC6	6.133413599	0.049594343
0.107122367	BX642658	NA	5.983349299	0.035787871
0.106620836	NM_004852	ONECUT2	6.058828278	0.040471463

SUPPLEMENTAL TABLE 1b

Log₂FC (206+11c+ v 11c-)	Genbank Accession	Gene Symbol	Average Expression	Adjusted p value
-2.200259428	NM_148965	TNFRSF25	9.222428691	5.81E-07
-1.991075844	NM_005623	CCL8	10.95059926	3.01E-05
-1.988270921	NM_016580	PCDH12	7.80653287	6.03E-06
-1.946263288	NM_002982	CCL2	10.72542536	0.001469688
-1.840338904	NM_018176	LGI2	8.442637787	8.56E-07
-1.837325092	NM_133504	DCN	8.852518561	1.87E-06
-1.834832586	AK025332	NA	9.129997309	4.36E-07
-1.819531744	NM_001647	APOD	8.165884565	1.40E-07
-1.802690832	NM_002977	SCN9A	8.555820563	8.48E-08
-1.779137433	NM_002925	RGS10	8.686198855	1.58E-06
-1.770330938	BX109986	NA	9.629048839	2.46E-06
-1.75682357	XM_941901	CLEC4GP1	7.490700024	5.61E-05
-1.73897376	AW996300	NA	8.459743414	0.000138658
-1.683256276	NM_020724	RNF150	8.387476093	1.05E-06
-1.681140353	NM_000900	MGP	8.434836591	2.26E-06
-1.658227851	NM_020405	PLXDC1	7.63372173	2.26E-06
-1.648868432	NM_207446	LOC400451	8.095099319	1.02E-05
-1.628291048	NM_153321	PMP22	8.585387697	7.78E-05
-1.606088896	NM_003243	TGFBR3	7.806888671	1.37E-06
-1.58150278	NM_001001435	CCL4L1	12.17332512	0.000120872
-1.573064421	NM_001002292	GPR177	9.474998779	1.93E-06
-1.558379009	NM_000861	HRH1	8.013194078	4.66E-07
-1.545188511	NM_001033886	CXCL12	8.132116528	4.97E-05
-1.5429388	NM_007085	FSTL1	7.804286886	2.06E-06
-1.541490536	NM_002775	HTRA1	9.78684072	3.34E-06
-1.532604614	NM_024911	GPR177	7.928561293	9.55E-07
-1.512090037	NM_001885	CRYAB	8.093322796	2.59E-05
-1.509644166	NM_153267	MAMDC2	9.853258527	2.99E-06
-1.50802701	NM_005103	FEZ1	8.491033628	1.37E-07
-1.50249807	NM_006691	LYVE1	10.45268756	3.50E-06
-1.500758925	NM_000609	CXCL12	8.069728302	3.03E-05
-1.500278765	NM_199168	CXCL12	9.506104426	1.36E-05
-1.496663105	NM_006209	ENPP2	7.999114625	4.93E-08
-1.475401617	NM_005408	CCL13	9.345141054	8.20E-06
-1.475358867	NM_000867	HTR2B	8.755723763	4.36E-07
-1.470510872	NM_000366	TPM1	8.760934396	1.77E-05
-1.463420617	NM_199037	SCN1B	7.536984588	1.84E-06
-1.455568707	NM_001946	DUSP6	8.781685816	0.00063256
-1.452687312	NM_176894	P2RY13	10.3956941	0.000780667
-1.429103673	NM_004795	KL	7.232200541	7.59E-06
-1.42483146	NM_003508	FZD9	7.556304085	4.36E-07
-1.424642136	NM_013401	RAB3IL1	9.053407237	9.38E-07
-1.397631709	NM_000089	COL1A2	7.31618745	2.27E-06
-1.388643726	NM_032962	CCL14	7.721245411	4.23E-06
-1.378555443	NM_005300	GPR34	8.659180336	9.48E-07
-1.372964428	NM_032880	IGSF21	7.605004236	0.000559258
-1.369932506	NM_002345	LUM	7.06205261	3.44E-06
-1.364613913	XM_934358	CCL3	8.829661974	8.26E-05
-1.360524678	XM_942084	GAS6	10.0100313	1.51E-07
-1.359505314	NM_000667	ADH1A	7.285645028	3.41E-07
-1.349539297	NM_174941	CD163L1	8.907461194	1.52E-07
-1.342473844	NM_001584	MPPED2	7.923900794	2.45E-06
-1.338721892	NM_000820	GAS6	10.21229473	1.34E-07
-1.337047093	NM_018584	CAMK2N1	6.967435837	1.40E-05
-1.330857801	NM_001559	IL12RB2	7.016146649	3.88E-06
-1.329204513	NM_006486	FBLN1	7.145776969	2.47E-05
-1.326936914	NM_000428	LTBP2	7.919204769	1.29E-06

-1.319012903	NM_022003	FXVD6	9.283808368	2.23E-05
-1.316798103	NM_080284	ABCA6	7.566279678	1.47E-05
-1.315667574	NM_018384	GIMAP5	9.226033716	0.001056942
-1.313614628	NM_001011666	CREB5	8.727187044	4.65E-06
-1.305593607	NM_003956	CH25H	9.722659524	0.003555925
-1.298534294	XM_940361	GYPC	10.5121009	1.12E-06
-1.296749402	NM_080283	ABCA9	7.719436065	8.72E-07
-1.289972669	NM_002147	HOXB5	7.458254561	1.36E-05
-1.288608671	NM_001012973	PLAC9	7.285744527	5.06E-06
-1.287026129	NM_022742	CCDC136	7.577875835	8.05E-05
-1.285544067	NM_001552	IGFBP4	8.395024581	4.36E-07
-1.281113797	NM_133503	DCN	7.005808313	1.96E-06
-1.275875521	NM_014974	DIP2C	7.673008095	2.46E-06
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-1.196399819	NM_015345	DAAM2	6.924612684	4.31E-05
-1.194903831	NM_000820	GAS6	7.740882876	8.56E-07
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-1.193462558	NM_000599	IGFBP5	7.374828437	1.42E-06
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-1.042488029	NM_000156	GAMT	7.640399836	4.59E-07
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-1.038803691	NM_002223	ITPR2	8.369659256	2.11E-06
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-1.035355188	NM_001734	C1S	6.839030798	8.38E-06
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-1.025335114	NM_004454	ETV5	7.864459976	2.27E-06
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-0.985361271	NM_001814	CTSC	10.46887415	0.00191266
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-0.957975747	NM_001200	BMP2	7.464454988	0.000626539
-0.953917238	NM_139281	WDR36	8.398931038	3.45E-05
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-0.874111101	NM_032637	SKP2	8.750664344	0.001586106
-0.872069656	NM_004408	DNM1	7.172735562	0.00034992
-0.871172162	NM_148975	MS4A4A	8.422493518	1.47E-05
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-0.869633029	NM_138375	CABLES1	8.086516561	3.67E-05
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-0.867528307	NM_138967	SCAMP5	7.05395669	3.66E-05
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-0.856725307	NM_153367	C10orf56	8.07149779	1.12E-06
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-0.850441932	NM_016371	HSD17B7	10.2106243	3.76E-06
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-0.841575795	NM_000943	PPIC	7.100434972	5.47E-05
-0.840833981	NM_016084	RASD1	8.069044392	4.11E-05
-0.840123807	NM_005276	GPD1	7.235860176	3.41E-05
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-0.826295482	NM_001001669	FLJ41603	6.657568904	2.86E-06
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-0.818663262	NM_138940	CD200R1	7.137362933	0.000180544
-0.818481831	NM_006182	DDR2	6.714853529	2.44E-05
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-0.817156286	NM_152594	SPRED1	10.58578882	0.000749769
-0.816175349	NM_005595	NFIA	6.989235972	8.25E-05
-0.812011153	NM_023068	SIGLEC1	7.963510466	6.54E-05
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-0.808878641	NM_000076	CDKN1C	7.532952132	0.002284194
-0.808515928	BX537823	NA	6.823511621	8.92E-07
-0.805312403	AL049390	NA	7.913617228	0.000730513
-0.802757633	NM_002501	NFIX	7.418185069	1.55E-06
-0.801504052	XM_936461	NA	7.3779499	0.000237198
-0.797747885	NM_015215	CAMTA1	7.309634515	4.71E-05
-0.797368668	NM_000285	PEPD	11.26706734	8.51E-05
-0.796493727	NM_172159	KCNAB1	7.157160917	0.02172368
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-0.796176292	NM_025195	TRIB1	11.52337727	0.031026774
-0.795846677	DA598274	NA	6.703352597	0.000154592
-0.793707413	NM_000062	SERPING1	9.293717506	0.002953342
-0.793499139	NM_153703	PODN	6.857178251	1.27E-05
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-0.791813472	NM_014454	SESN1	9.831121738	0.008508624
-0.790604875	NM_023926	ZSCAN18	8.598103695	4.04E-05
-0.790385059	NM_025113	C13orf18	7.791850965	0.003067141
-0.788120593	NM_001009567	MRC1L1	6.902654012	0.005090439
-0.787613714	NM_001920	DCN	6.719273616	0.000203127
-0.785837083	NM_014631	SH3PXD2A	9.182795239	2.47E-06
-0.785586791	NM_004342	CALD1	6.80604059	1.16E-05
-0.782856121	NM_032501	ACSS1	8.766620845	3.34E-06
-0.78112582	NM_173217	ST6GAL1	9.597757153	0.00136019
-0.780572017	NM_002609	PDGFRB	6.845729354	0.000277867
-0.78040453	NM_004052	BNIP3	8.16259722	2.02E-05
-0.779540142	NM_001699	AXL	8.876785082	0.004433866
-0.779512664	NM_015585	C20orf26	6.96114157	8.90E-05
-0.77839866	NM_014992	DAAM1	8.200940302	2.65E-05
-0.778184738	NM_015463	C2orf32	9.329372851	3.12E-06
-0.777082974	NM_014899	RHOBTB3	7.505406411	0.00042359

-0.77682356	NM_003278	CLEC3B	8.878648024	0.005973869
-0.776668296	NM_003199	TCF4	8.422573112	0.000236791
-0.775178628	NM_001025616	ARHGAP24	9.014244216	3.59E-05
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-0.77429846	XM_926382	LOC642755	8.81944008	0.000301204
-0.774141962	XM_942431	NA	7.960523982	0.000460474
-0.772933395	NM_003980	MAP7	7.9577028	0.000188084
-0.771012583	NM_001482	GATM	8.911770753	7.40E-05
-0.770474629	NM_003216	TEF	7.409833236	0.004820599
-0.769163512	NM_001065	TNFRSF1A	11.24929137	1.47E-05
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-0.766643275	NM_017949	CUEDC1	9.566492642	0.000377147
-0.766042256	NM_005504	BCAT1	9.917723391	4.07E-05
-0.764691249	NM_004040	RHOB	9.446863975	0.002052859
-0.764261375	NM_013314	BLNK	8.49917879	0.000154592
-0.763021579	NM_000434	NEU1	10.51197556	0.001145438
-0.761847933	NM_144697	C1orf51	6.843266557	0.000473241
-0.760628259	NM_013262	MYLIP	10.81458937	0.001574218
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-0.758718121	NM_020400	GPR92	7.653272588	0.000834916
-0.758227229	NM_000064	C3	7.112067218	0.005178478
-0.758121582	NM_022648	TNS1	7.666813003	1.88E-05
-0.757386669	NM_018993	RIN2	9.781313018	0.000108411
-0.755324524	NM_012156	EPB41L1	7.298363254	4.31E-05
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-0.749537008	XM_935305	NA	9.065165829	0.000108298
-0.747589672	NM_181334	LOC553158	6.796926331	1.67E-06
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-0.744818994	NM_178008	STAR13	8.157840848	7.84E-05
-0.744072384	NM_004225	MFHAS1	8.582792006	0.004854973
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-0.73690866	NM_014964	EPN2	6.864668398	3.69E-06
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-0.736563805	NM_147156	SGMS1	8.506134374	0.014694055
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-0.733348011	NM_018027	FRMD4A	7.971914017	0.000103121
-0.733297906	NM_003773	HYAL2	8.149425149	7.34E-05
-0.731648706	NM_004169	SHMT1	6.97393786	0.000374405
-0.730272224	NM_004019	DMD	6.503116003	3.59E-05
-0.730028054	XM_040592	NA	7.119911926	0.000180544
-0.729992127	NR_002157	OR2A9P	6.621434926	0.001008019
-0.728731764	NM_152360	ZNF573	7.490781572	0.000497377
-0.728617959	NM_013308	GPR171	6.866814062	0.00021043
-0.726851431	NM_000156	GAMT	6.986529047	2.20E-07
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-0.724579006	NM_020379	MAN1C1	8.328719499	0.002891833
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-0.719876898	NM_024955	FOXRED2	7.164534494	5.17E-05
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-0.713637015	NM_015642	ZBTB20	8.422934069	1.25E-05
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-0.709195991	NM_018379	FAM63A	8.622475971	0.02224672
-0.708135418	NM_018370	DRAM	10.06517745	0.000124897
-0.706003139	NM_001632	ALPP	10.28902254	2.88E-06
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-0.703024451	NM_020773	TBC1D14	10.36971915	0.000157931
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-0.698729639	XM_931443	LOC643260	7.145240054	0.004613047
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-0.694392205	NM_152542	PPM1K	7.408295073	5.80E-05
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-0.69263945	NM_012320	LYPLA3	8.885396992	0.000162878
-0.692614604	NM_001839	CNN3	6.668096922	6.25E-07
-0.691630847	NM_020812	DOCK6	6.702751848	9.38E-07
-0.691356468	NM_032709	C10orf33	7.623976473	0.009180327
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-0.685779115	AK126342	NA	8.643274489	0.002300452
-0.685485176	NM_005012	ROR1	6.66401418	0.037176397
-0.683885079	NM_000903	NQO1	7.503060233	0.006447431
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-0.681944188	NM_152411	ZNF786	9.143762135	1.76E-05
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-0.68080821	NM_004244	CD163	9.688165355	0.02136338
-0.680381977	NM_003275	TMOD1	7.17523577	0.010507594
-0.680379268	NM_002608	PDGFB	6.756239061	0.000253339
-0.680347943	NM_012072	CD93	11.53721329	0.00230759
-0.679598213	NM_024927	PLEKHH3	6.892950625	3.41E-07
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-0.677289722	XM_497707	LOC648366	8.220185373	0.00949786
-0.677014591	NM_002067	GNA11	9.628683117	0.000160287
-0.676404959	NM_032208	ANTXR1	7.181919385	5.26E-05
-0.675831731	NM_005885	Mar-06	9.67563762	0.00314401
-0.675365217	NM_000716	C4BPB	6.614311042	0.00078317
-0.674920382	XM_931359	LOC338758	11.60884578	0.018101081
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-0.673356141	NM_000890	KCNJ5	7.808090034	0.011276265
-0.672529994	NM_005238	ETS1	7.752177897	2.48E-05
-0.672223877	NM_139321	ATRN	9.095696234	0.00089728
-0.672023157	CA944851	NA	6.541460682	0.00073224
-0.670529086	NM_001002880	CBY1	7.444816043	3.90E-05
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-0.670161215	NM_019110	ZKSCAN4	7.270278863	0.001008187
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-0.666701572	NM_015392	NPDC1	7.345770491	0.000467025
-0.665753514	NM_015577	RAI14	6.694104276	0.000233659
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-0.664267703	NM_002207	ITGA9	7.382695444	0.000180544
-0.664264058	NM_005808	CTD SPL	8.112197487	6.31E-05

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-0.659566691	NM_001392	DTNA	8.317343759	0.003178768
-0.658879793	XM_942145	LOC652612	6.654672619	8.37E-07
-0.658472885	NM_080927	DCBLD2	7.361668514	1.57E-05
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-0.657542551	BQ888875	NA	7.497464462	0.001356865
-0.657028925	NM_000618	IGF1	6.68388172	0.000301204
-0.656084978	NM_198795	TDRD1	7.627099123	0.001321207
-0.655516021	NM_031305	ARHGAP24	7.382295871	8.55E-05
-0.655401281	NM_013302	EEF2K	9.39919111	0.000148236
-0.65526067	NM_007073	BVES	6.652592505	9.79E-06
-0.652911704	NM_001129	AEBP1	6.547686349	0.001906591
-0.652445081	NM_018659	CYTL1	6.969456629	0.000269867
-0.652432012	NM_005158	ABL2	7.614016742	0.008801265
-0.651981026	NM_152729	NT5DC1	8.186915435	0.000247911
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-0.650692171	NM_002448	MSX1	6.843826596	2.47E-06
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-0.649342251	NM_003684	MKNK1	11.07212718	5.13E-05
-0.649246248	NM_020190	OLFML3	6.762162235	7.21E-05
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-0.648469039	NM_001666	ARHGAP4	10.67149251	0.03219424
-0.648344255	NM_002928	RGS16	7.77374721	0.03148904
-0.647938516	NM_014580	SLC2A8	9.89416386	9.90E-05
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-0.646482948	XM_371152	ZNF486	11.46362912	0.000350746
-0.646409058	NR_002221	DPRXP4	7.219291755	0.010073163
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-0.644372372	NM_019885	CYP26B1	6.742888468	0.000616358
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-0.642871326	NM_002666	PLIN	6.626071911	3.31E-05
-0.641545147	AL110204	NA	8.076502177	0.000393273
-0.639635308	NM_016096	ZNF706	8.137804746	3.07E-06
-0.639362958	NM_001008490	KLF6	12.62615004	0.001494687
-0.638576359	NM_133462	TTC14	8.177562065	0.001946631
-0.637679603	NM_002315	LMO1	6.467862679	2.86E-06
-0.636246716	NM_007168	ABCA8	6.472334496	4.71E-05
-0.635760508	NM_004257	TGFBRAP1	7.548439843	0.000261537
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-0.634617883	NM_005410	SEPP1	10.68637145	1.92E-05
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-0.634213944	XM_061427	LOC119358	6.846481169	0.000210983
-0.633033208	BX327205	B4GALT1	7.449778081	0.008754899
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-0.631964743	NM_178583	WDFY3	7.00419369	3.69E-05
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-0.6296646	AK091904	NA	9.064121889	3.50E-06
-0.62953369	NM_012305	AP2A2	8.507601976	0.001146532
-0.629440034	NM_004148	NINJ1	12.37087639	0.010954182
-0.628517536	NM_178229	IQGAP3	8.083334627	0.004211483
-0.628128596	NM_006624	ZMYND11	8.003425702	7.17E-06
-0.628013546	NM_001024211	S100A13	8.244472692	0.013775831
-0.626406738	BC015367	NA	10.3258405	0.016531736

-0.623192298	NM_017526	LEPROT	9.717599426	0.006247038
-0.623093268	BC038512	NA	9.36190021	0.003947198
-0.622202007	NM_000120	EPHX1	8.463212496	0.001849459
-0.622142369	XM_944915	NA	8.657129099	6.94E-05
-0.62107028	NM_019018	FAM105A	9.724441354	0.000279113
-0.620516352	AK092074	C1orf183	8.598537646	0.041527296
-0.620158653	NM_005583	LYL1	9.576691064	0.003664452
-0.62011518	NM_175709	CBX7	8.701254915	1.32E-06
-0.619478802	NM_021964	ZNF148	9.114341231	0.010905401
-0.619265564	NM_003434	ZNF133	7.276040193	2.47E-06
-0.618615522	AW874356	NA	7.5287318	0.001139716
-0.618613619	NM_012385	NUPR1	8.068181731	0.01380253
-0.618004072	NM_007146	VEZF1	9.946226458	2.86E-06
-0.617884782	NM_017933	PID1	8.481906325	0.022611877
-0.61784263	NM_002889	RARRES2	6.469890023	0.000688352
-0.616486063	NM_014832	TBC1D4	8.104870136	3.83E-05
-0.613228885	NM_001710	CFB	7.463630828	0.001274192
-0.61317949	NM_175047	PILRB	8.596690694	0.000473241
-0.612359152	NM_000088	COL1A1	6.622824484	0.001411173
-0.6116617	XM_946205	LOC388588	7.449556091	0.001499287
-0.611122509	NM_032827	ATOX1	6.786450473	0.000387259
-0.610962743	NM_003528	HIST2H2BE	7.927612889	0.003614777
-0.610759579	NM_001025266	LOC285382	6.624681285	9.38E-07
-0.61029817	NR_001449	NA	7.908603258	0.001537199
-0.610045454	NM_004235	KLF4	10.56430703	0.012401887
-0.608823765	NM_014945	ABLIM3	6.743438475	2.53E-07
-0.608686596	NM_018404	CENTA2	11.37279687	2.43E-05
-0.608542919	NM_005092	TNFSF18	6.55791584	0.0336679
-0.608268145	NM_000712	BLVRA	10.67631294	4.80E-06
-0.605317748	NM_153235	TXLNB	7.793528613	1.00E-04
-0.604537228	NM_016831	PER3	7.169519572	0.011455205
-0.602448951	NM_015103	PLXND1	8.009816842	0.000347017
-0.601352476	BU935198	NA	9.820810459	0.000180544
-0.600399927	NM_001182	ALDH7A1	8.052405349	0.000363096
-0.599251869	XM_939071	NA	9.185746394	0.000156142
-0.598293716	NM_001740	CALB2	6.614341831	0.000158798
-0.597173113	XM_926814	FLJ11903	9.380692337	0.008897818
-0.596535502	NM_006738	AKAP13	9.323837661	0.033106903
-0.59646614	XM_930040	NA	7.23227937	0.032261671
-0.595645569	NM_152559	WBSCR27	7.707821265	0.032422556
-0.593849823	NM_033452	TRIM47	7.555043367	0.000622496
-0.592300316	NM_018490	LGR4	6.679654149	2.26E-06
-0.59194227	NM_000617	SLC11A2	10.09961981	0.014418908
-0.591131153	NM_203284	RBPJ	9.653983602	0.012778326
-0.590609701	NM_022340	ZFYVE20	9.246540891	1.55E-05
-0.590511847	NM_024843	CYBRD1	10.64208788	4.80E-06
-0.590023244	NM_001006614	WBP5	8.916565186	0.004095037
-0.589035032	NM_018186	C1orf112	7.651558325	0.00039135
-0.588783529	NM_005102	FEZ2	10.82292055	0.001892726
-0.588303657	NM_003516	HIST2H2AA3	9.01451058	0.02136338
-0.587596855	NM_004737	LARGE	6.717594195	2.23E-05
-0.586633363	NM_172027	ABTB1	9.282554877	8.16E-05
-0.58626148	NM_014149	WDR91	8.315760244	0.007320181
-0.586009374	NM_201403	MOBK12C	10.30984832	0.000391581
-0.585901579	NM_000950	PRRG1	6.841229529	2.24E-05
-0.585347705	NM_006885	ZFHX3	10.36066431	4.13E-05
-0.585117099	NM_003268	TLR5	9.551652854	0.001334408
-0.584144325	AK129956	NFIC	8.679861148	2.02E-05
-0.583749293	NM_003583	DYRK2	7.591251328	0.001978195
-0.58264898	NM_001928	CFD	12.91296113	0.000794371
-0.582118794	NM_052880	PIK3IP1	9.796231645	0.001999501

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-0.579926958	XM_930995	NA	10.55169059	0.017391288
-0.578855105	NM_000963	PTGS2	8.462364303	0.037798717
-0.578412168	NM_201397	GPX1	8.710684603	0.0298741
-0.57719564	NM_003627	SLC43A1	7.232354407	6.36E-06
-0.576902896	XM_933717	NA	9.422324944	0.036162099
-0.576877289	XM_943334	NA	7.17957923	0.003928022
-0.575780595	NM_001733	C1R	6.432758709	0.000275623
-0.575540176	XM_926458	NA	10.95682972	0.000254401
-0.575309279	AW450591	NA	7.137724461	0.00582363
-0.574324575	NM_002335	LRP5	6.707658405	1.08E-06
-0.573764877	NM_182964	NAV2	7.248539582	3.48E-06
-0.573707334	NM_153370	PI16	6.685915971	0.00011866
-0.573222517	XM_946047	NA	12.89625228	0.000907614
-0.571149541	XM_933707	NA	7.303856151	0.002911143
-0.570965331	NM_018847	KLHL9	8.651458029	0.000825162
-0.570747793	NM_001005615	EDA	6.821062572	1.82E-05
-0.570605117	NM_022308	NA	8.561153947	0.000444594
-0.570293288	NM_001352	DBP	7.012055621	0.009362726
-0.570276509	NM_207362	C2orf55	6.997238861	0.004236709
-0.56971691	NM_022052	NXF3	6.789729438	0.002686033
-0.569301061	NM_145045	MGC20983	7.248871106	0.00146693
-0.569089246	NM_014051	TMEM14A	7.083400556	0.000110848
-0.567836232	NM_173833	SCARA5	6.546308319	0.000235039
-0.567339311	NM_004943	DMWD	7.144505969	0.008381427
-0.566247595	CD237661	NA	7.119961091	0.003259732
-0.56606943	NM_006089	SCML2	6.750330931	0.000179426
-0.565493225	NM_156036	NA	6.962087582	0.008117657
-0.562833473	NM_207335	KLHDC6	6.431040041	0.000798315
-0.562673657	NM_203417	RCAN1	11.37026841	0.009617157
-0.561933331	NM_032293	GARNL3	6.813088936	0.000218025
-0.55975311	NM_145043	NEIL2	7.516906314	0.001105591
-0.557013397	NM_005428	VAV1	9.387019946	1.65E-05
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-0.556973143	NM_016255	FAM8A1	9.723395797	3.32E-05
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-0.55161255	NM_152743	C7orf27	9.850911904	1.70E-05
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-0.54973091	NM_001038	SCNN1A	6.962219795	1.18E-05
-0.548746101	NM_213603	ZNF789	7.823014512	0.000325411
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-0.547092254	NM_017970	C14orf102	8.775371651	0.000399557
-0.5463542	NM_001031804	MAF	6.43215008	0.000630116
-0.544419607	NM_001954	DDR1	7.388798403	3.64E-05
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-0.539337537	NM_006169	NNMT	6.495933601	4.91E-05
-0.536739705	NM_017737	FNBP1L	7.06930686	0.00034992
-0.536067658	NM_003874	CD84	9.057456895	0.015806763
-0.535878079	NM_002905	RDH5	7.407966906	0.01369236
-0.53582015	NR_002164	GTF2IRD2P	7.49881884	0.000136305
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-0.534697594	NM_025264	THUMPD2	7.914156674	0.000348311
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-0.533181889	NM_001008566	TPST2	10.1525745	3.55E-05
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-0.531752456	NM_213589	RAPH1	9.411478144	0.004286112
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-0.530476277	NM_005723	TSPAN5	6.516709391	4.58E-06
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-0.529127604	XM_944898	LOC651738	7.191409899	0.000882262
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-0.526739241	NM_032839	DIRC2	10.6842416	0.000235039
-0.526646828	NM_002078	GOLGA4	7.43952649	4.88E-05
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-0.526118677	XM_930970	NA	7.514919812	0.007810877
-0.525077387	NM_001008528	MXRA7	6.713887321	0.020411096
-0.524868237	NM_003877	SOCS2	6.514103125	0.000231787
-0.523711469	NM_003124	SPR	7.56750455	2.16E-05
-0.523511595	NM_001233	CAV2	6.457448801	9.27E-06
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-0.522032562	NM_001012753	ZNF763	6.915240483	0.001156009
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-0.521230945	NM_173485	TSHZ2	6.493573159	8.38E-05
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-0.519356309	NM_015570	AUTS2	7.114346003	0.001043898
-0.519104179	NM_138578	BCL2L1	9.204269014	0.001610191
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-0.51845246	NM_005937	MLLT6	9.061685129	0.004562679
-0.517852779	NM_014468	VENTX	9.962401552	0.024523113
-0.517733072	NM_005842	SPRY2	7.587688016	0.001368207
-0.51769811	NM_000880	IL7	6.66443868	1.50E-05
-0.517336285	NM_003247	THBS2	6.541799488	0.009174641
-0.517254012	XM_928286	NA	7.937666085	0.000519118
-0.517238604	NM_006504	PTPRE	7.351487031	0.009955873
-0.516540843	NR_002174	CMAH	8.201165806	0.000798911
-0.516400119	NM_004050	BCL2L2	9.048461677	0.000258411
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-0.515926531	NM_024656	GLT25D1	11.50906453	0.000155545
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-0.51525482	NM_017833	C21orf55	12.43879165	0.000836902
-0.514833852	NM_004107	FCGRT	12.70131146	3.59E-05
-0.514396398	NM_005903	SMAD5	8.259374209	0.004186375
-0.514379499	NM_006633	IQGAP2	10.57898898	0.004745831
-0.513726746	NM_005502	ABCA1	11.36784554	0.048470659
-0.513706988	NM_194295	C15orf51	11.46556845	0.000297334
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-0.512472187	NM_003581	NCK2	9.041129445	0.000626406
-0.512346095	XM_943094	NA	8.226977009	0.020130382
-0.510654321	NM_015542	UPF2	8.78658401	0.003952926
-0.509187363	NM_015270	ADCY6	6.928148868	7.75E-05
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-0.5080659	NM_000240	MAOA	7.06155969	0.000886698
-0.507941813	NM_006645	STAR10	7.65419677	0.000467025
-0.507724021	NM_078473	TM2D2	7.58160466	0.000798315
-0.50733229	NM_006895	HNMT	7.834161324	0.001002991
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-0.505594363	NM_198289	CIDEA	6.475630116	0.006066943
-0.505210658	NM_031477	YPEL3	9.394273816	0.000372161
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-0.504861217	XM_935802	NA	6.9089693	0.000201346
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-0.504079325	NM_003671	CDC14B	12.47266691	0.027937921
-0.503857359	NM_012329	MMD	9.343453439	0.003607177
-0.503373675	NM_020440	PTGFRN	6.773105034	0.000271769
-0.503003454	NM_001901	CTGF	6.51652359	0.000204123
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-0.501578433	NM_005578	LPP	10.6344775	1.86E-05
-0.50140763	NM_022757	CCDC14	9.228685515	0.000459989
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-0.499439473	XM_933055	NA	10.4864828	0.013062147
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-0.498296563	NM_032832	LRP11	6.834610285	1.56E-05
-0.498251785	NM_020235	BBX	9.162562174	0.008801265
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-0.496618446	NM_022903	CCDC71	7.754088692	0.001408487
-0.496016173	NM_052831	C6orf192	10.67911937	0.003908868
-0.495897442	XM_933679	NA	7.769883707	0.010120235
-0.494897767	NM_013300	C12orf24	8.200488735	0.005209566
-0.494847116	BF945346	NA	7.667337904	3.31E-05
-0.49476137	NM_183040	DTNBP1	7.117287142	0.000452764
-0.493929598	NM_001031744	NA	8.374381695	0.000162878
-0.493633414	NM_015385	SORBS1	6.464949844	0.000307277
-0.493335557	DB081306	NA	6.345360502	0.029634532
-0.493102748	NR_002186	DKFZp586I1420	8.192041727	0.003639315
-0.491957626	XM_928682	NA	8.098482643	0.025318217
-0.491933637	NM_025202	EFHD1	6.352450635	2.94E-06
-0.490927924	NM_003100	SNX2	11.52613088	0.000278142
-0.49009386	NM_003548	HIST2H4A	7.166324196	0.000157272
-0.490085996	NM_023110	FGFR1	6.438678552	1.09E-05
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-0.487715982	NM_052888	LRRC37B	8.976147659	3.52E-05
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-0.487154793	NM_003621	PPFIBP2	9.709240318	0.000332062
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-0.485473157	NM_001029880	SFMBT2	7.203342181	0.024312016
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-0.484582203	NM_024311	MFSD11	8.350990296	0.000289938
-0.48303932	NM_003919	SGCE	6.471481344	4.42E-05
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-0.481949122	NM_014437	SLC39A1	10.49319071	0.000668544
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-0.48138353	NM_207036	TCF12	8.183057542	0.000912053
-0.481133323	NM_013361	ZNF223	8.647917059	0.000107394
-0.479670715	NM_032131	ARMC2	6.659784265	6.19E-05
-0.479440881	NM_015383	NBPF14	7.317895654	0.016208147
-0.478976294	NM_013333	EPN1	11.02978569	0.000305365
-0.477348742	NM_147223	NCOA1	10.26360738	3.38E-05
-0.476390385	NM_004090	DUSP3	10.81692955	0.004307944
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-0.475156138	NM_000300	PLA2G2A	6.465120094	0.003671768
-0.475129713	XM_942801	NA	7.02702614	0.000742159
-0.474776685	NM_025152	NUBPL	7.474297891	0.000200594
-0.474481624	NM_004099	STOM	10.93024356	0.000473241
-0.473941304	NM_001063	TF	6.681236337	0.002589051
-0.473600513	NM_005246	FER	7.605215155	5.63E-05
-0.472733566	AL833381	LOC56757	7.512909306	0.031292749
-0.47204216	NM_025059	C6orf97	7.500921103	0.004787735
-0.471997154	NM_173834	YIPF6	9.64098047	0.001295584
-0.471865783	NM_006299	ZNF193	7.611106082	0.012405375
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-0.470996853	NM_018231	FLJ10815	7.935052735	8.54E-06
-0.470326752	NM_138809	CMBL	6.896770257	0.001183288
-0.469614577	NM_152279	ZNF585B	7.171731483	0.000950119
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-0.467856408	AW593187	NA	6.621393182	0.000112257
-0.46769891	NM_002414	CD99	11.17137151	0.000768143
-0.467661804	XM_938534	NA	7.057886833	0.00412493
-0.467645286	NM_173797	PAPD4	10.34654664	0.002999676
-0.46747906	NM_019012	PLEKHA5	7.478338606	0.001588994
-0.467414169	NM_199163	FAM39DP	9.580166077	0.000322511
-0.467033851	NM_005697	SCAMP2	8.915213676	0.000126693
-0.466948179	NM_030930	UNC93B1	9.089785545	0.00286263
-0.466914742	NM_138455	CTHRC1	6.562461029	0.000105393
-0.46610354	XM_944716	LOC440704	8.251010954	0.000719371
-0.465998232	NM_003567	BCAR3	8.420723514	0.002808472
-0.465548665	NM_133436	ASN5	7.992512575	0.002801452
-0.465527486	NM_021249	SNX6	7.084506672	0.000882262
-0.465452393	NM_213674	TPM2	8.625555556	0.001574218
-0.465404652	NM_182898	CREB5	9.132093949	0.046375997
-0.465100579	NM_001980	STX2	9.617939834	0.037024547
-0.464364272	NM_003545	HIST1H4E	6.525105353	0.000105302
-0.463609367	NM_016010	C8orf70	7.638275249	0.000121863
-0.463254908	NM_032429	LZTS2	6.984041887	0.002204904
-0.462816347	NM_033211	C5orf30	6.912397413	0.001000953
-0.462718004	NM_005338	HIP1	7.749032635	0.013997008
-0.462226556	NM_002759	EIF2AK2	9.204173799	0.021992385
-0.462014735	NM_203329	CD59	7.385307214	0.003731089
-0.461947807	BM723547	NA	7.264031169	0.000936722
-0.461334893	NM_207436	FLJ42957	6.904876043	0.010064526
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-0.460170255	NM_001031695	RBM9	6.331826145	0.000247312
-0.459897294	NM_001754	RUNX1	9.362813029	0.00694804
-0.459509575	NM_033642	FGF13	6.180811939	7.07E-05
-0.459477728	NM_030791	SGPP1	10.43081176	0.001174244
-0.459430039	NM_004054	C3AR1	10.92837167	0.034572821
-0.4581218	NM_015419	MXRA5	6.408089618	0.000391581
-0.457415524	NM_148956	NSUN5	8.049319174	0.004496261
-0.457088369	NM_006212	PFKFB2	7.967838419	0.006009743
-0.456947865	NM_001259	CDK6	9.279658564	0.008298075
-0.456815624	NM_001887	CRYBB1	6.845920046	6.24E-05
-0.456364118	NM_015559	SETBP1	7.278052679	0.00065224
-0.456051688	NM_018561	USP49	10.25951669	0.004472526
-0.455767684	NM_001005732	C21orf34	6.595440697	1.18E-05
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-0.455155166	NM_016376	ANKFY1	9.779227902	8.77E-05
-0.454940304	NM_001009607	NA	7.421174805	0.002884165
-0.454195567	XM_942754	NA	6.671926156	0.030115407
-0.454176653	NM_005455	ZRANB2	9.206155555	0.001971376
-0.454146294	NM_199282	ARHGAP27	11.17630598	0.007565591
-0.454070043	NM_015080	NRXN2	6.677942905	0.000309294
-0.45385752	NM_020734	FAM80B	7.27622444	0.001010968
-0.45322184	NM_004579	MAP4K2	9.886502603	0.00361058
-0.452507069	NM_024007	EBF1	6.423302561	7.91E-06
-0.452021812	XM_942469	NA	7.151649003	4.77E-05
-0.451526465	NM_003437	ZNF136	7.125277177	7.45E-05
-0.451165408	NM_006720	ABLIM1	6.642157713	0.00304712
-0.451122669	NM_005652	TERF2	8.670755877	0.000224078
-0.45112134	NM_014810	CEP350	9.046081121	0.047762159
-0.450709251	XM_936226	LOC653879	6.456864492	0.006968398
-0.450671996	NM_001012334	MDK	6.877060804	0.00559686
-0.450542286	NM_014010	ASTN2	6.408816685	2.94E-06
-0.450331579	NM_173497	HECTD2	7.343239438	0.003241681
-0.450178896	NM_015974	CRYL1	9.460459696	0.000154592
-0.449595287	NM_015074	KIF1B	9.338628047	9.58E-05
-0.447803582	NM_004420	DUSP8	7.234378878	0.019514122
-0.447518564	NM_152557	ZNF746	9.42425991	0.000317506
-0.447339766	NM_178831	GATS	7.481518068	0.000742729
-0.446563162	NM_003941	WASL	9.001161402	6.17E-05
-0.446246318	NM_004926	ZFP36L1	7.964843777	0.000375771
-0.446127808	NM_020353	PLSCR4	6.627861233	9.40E-05
-0.445855146	NM_006412	AGPAT2	8.443020983	0.002258641
-0.445531379	NM_001014975	CFH	7.739008316	0.002704918
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-0.443205684	NM_003452	ZNF189	8.265546577	0.033132245
-0.443200967	NM_016243	CYB5R1	9.966449218	0.00084866
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-0.442845712	XM_941901	NA	6.510988301	0.001766606
-0.442778718	NM_015265	SATB2	6.835530944	0.000609976
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-0.442260488	NM_001033059	AMD1	9.563684805	0.002301267
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-0.440580608	NM_032520	GNPTG	10.10260752	9.91E-05
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-0.437014288	NM_018426	TMEM63B	7.309356525	0.000145245
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-0.435151298	NM_022129	PBLD	8.540799344	0.00063816
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-0.431302833	XM_928866	LOC645895	13.00178864	0.003309177
-0.430929558	NM_000259	MYO5A	9.769991841	0.001523127
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-0.429103682	NM_007182	RASSF1	9.835367884	0.019812189
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-0.428322357	NM_020300	MGST1	7.550938987	0.016174104
-0.428317156	NM_145071	CISH	7.038504498	0.015456111
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-0.426787773	NM_145197	LIPT1	7.266821324	0.009951869
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-0.425519153	NM_152288	ORAI3	7.203013745	0.005384833
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-0.424962715	NM_198079	FLJ40113	6.546225922	0.009362726
-0.42491837	NM_203453	PPAPDC2	6.717977303	0.020642104
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-0.424562407	NM_006232	POLR2H	10.17343296	0.026749719
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-0.423679108	NM_015245	ANKS1A	9.920760737	0.000542417

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-0.422844458	NM_018710	TMEM55A	8.0298314	0.040111572
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-0.421296063	NM_001001556	GALK2	6.990970816	0.001378181
-0.421212855	NM_001012959	DISC1	7.198331656	0.001275259
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-0.418814316	NM_021652	SMA4	7.615856999	0.000614274
-0.41801961	NM_001618	PARP1	9.986461512	0.002247805
-0.417607423	NM_014887	PFAAP5	8.852588132	0.019602984
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-0.416851382	NM_016302	CRBN	9.039596861	0.002985458
-0.416737826	NM_052937	PCMTD1	9.567794589	0.000854334
-0.416303815	NM_017881	C9orf95	8.571549262	0.005509712
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-0.415847024	XM_926402	LOC643031	12.32538122	0.002688028
-0.41576464	NM_005471	GNPDA1	10.93919722	0.008593843
-0.415707579	NM_001023560	ZNF187	7.511120677	0.00053988
-0.414660246	XM_934218	LOC644852	6.816854619	0.004066415
-0.41434244	NM_022087	GALNT11	9.905320679	1.34E-05
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-0.413422619	NM_182752	FAM79A	10.5000622	0.004762036
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-0.412332383	NM_020447	C15orf17	8.777676835	1.77E-05
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-0.411445818	NM_004329	BMPR1A	6.605630187	4.71E-05
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-0.409680124	NM_032936	TMEM60	10.0760035	0.040319972
-0.409671756	NM_016316	REV1	8.684410009	0.001141276
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-0.407581805	NM_025054	VCPIP1	8.237910618	0.019686269
-0.407388341	NM_006647	NOXA1	7.534026425	0.003722461
-0.407046883	NM_003289	TPM2	8.096775293	0.008846452
-0.40699342	NM_007049	BTN2A1	9.509766419	0.003939507
-0.406990768	NM_020631	PLEKHG5	6.34759487	0.000432005
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-0.403907958	NM_003255	TIMP2	9.906034605	0.008958949
-0.403061002	NM_001031733	CALML4	9.584514106	0.001958691
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-0.402922051	NM_002662	PLD1	7.92089505	0.000271908
-0.402402246	NM_007371	BRD3	8.90641764	0.002034199
-0.402193299	NM_175901	LOC283932	6.834233694	0.00211877
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-0.400632121	NM_025252	RAPH1	6.731764659	0.006841532
-0.400439981	NM_016323	HERC5	9.360138317	0.041596253
-0.399778155	NM_003262	TLOC1	7.978665358	0.004135088
-0.39969616	NM_022152	TMBIM1	9.016898013	0.019958717
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-0.399446347	NM_003034	ST8SIA1	6.275310214	0.001174244
-0.399409315	NM_004593	SFRS10	9.795442768	0.016064145
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-0.39838307	NM_016340	RAPGEF6	9.082458416	0.012708862
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-0.397141417	XM_938984	NA	7.033317874	0.009886486
-0.396170858	NM_017901	TPCN1	8.018581285	0.000409377
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-0.395838554	NM_012316	KPNA6	9.221327543	0.00255492
-0.395334778	NM_001033053	NLRP1	9.264384342	0.004850283
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-0.393906297	NM_001224	NA	8.100101609	0.045826529
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-0.393739804	NM_024691	ZNF419	7.209891198	0.000191588
-0.393322127	NM_014738	KIAA0195	9.981340756	0.000123421
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-0.392619178	NM_017432	PTOV1	9.817644777	4.13E-05
-0.3926056	NM_000393	COL5A2	6.315114422	5.68E-05
-0.392376593	NM_001012506	CCDC66	7.013733489	0.036204194
-0.392084062	NM_006653	FRS3	6.896346635	0.002346131
-0.391920419	NM_004808	NMT2	6.853943865	0.000238825
-0.391637907	NM_080881	DBN1	6.69228689	0.000148532
-0.391418271	NM_001011546	DSTN	6.555348701	0.005832511
-0.391326509	NM_021737	CLCN6	8.812982253	0.001105591
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-0.390260819	XM_936706	KLHL17	7.082786894	7.84E-05
-0.389829109	NM_178822	IGSF10	6.465155016	0.0166224
-0.389782257	XM_927140	NA	10.88820738	0.000260342
-0.38937128	NM_030923	TMEM163	6.462817778	0.001690559
-0.389104634	NM_032856	WDR73	7.285127463	0.015052936
-0.388915201	NM_152316	C11orf46	8.106438632	0.005349869
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-0.387924219	NM_001114	ADCY7	9.27045544	0.000235221
-0.387146447	XM_943433	NA	6.864048308	1.76E-05
-0.386973796	NM_016361	ACP6	6.899725846	2.34E-05
-0.386968057	NM_000897	NA	6.611273894	0.002740366
-0.386959584	NM_018478	NA	11.06819802	0.000271769
-0.386759551	NM_022783	DEPDC6	8.254333613	0.032133681
-0.385960721	NM_020825	CRAMP1L	7.415437186	0.000649831
-0.385774233	NM_006744	RBP4	6.502620947	0.005272757

-0.385646824	NM_006342	TACC3	8.061983956	0.013238829
-0.385540426	NM_020390	EIF5A2	6.526662428	8.72E-05
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-0.384252852	NM_015130	TBC1D9	8.398148709	0.020258619
-0.384158725	NM_016282	AK3	9.410281251	0.000302902
-0.38407199	AK091747	NA	7.627884708	0.000430947
-0.384039009	NM_153347	TMEM86A	7.653821487	0.001003863
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-0.383442921	NM_000624	SERPINA5	6.294166656	0.001996151
-0.383284379	NM_024087	ASB9	7.54004882	0.008526023
-0.38321132	NM_016613	C4orf18	11.11747939	0.015930258
-0.382404631	NM_015429	ABI3BP	6.375395473	9.84E-05
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-0.381639508	NM_032603	LOXL3	8.69783794	0.006134967
-0.380224315	NM_033050	SUCNR1	6.718980705	0.000273513
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-0.380163388	NM_145311	NA	7.441731408	0.014673824
-0.379866873	NM_006570	RRAGA	9.639448586	0.000240992
-0.379664968	XM_939698	NA	10.93552957	0.036063052
-0.378689253	NM_138804	LOC130951	7.125913059	0.001566368
-0.378683876	NM_016457	PRKD2	8.838058075	0.006863364
-0.37865776	NM_000125	ESR1	6.767342212	6.04E-05
-0.378078782	NM_024599	RHBDF2	10.91442695	0.038978325
-0.377751214	NM_018056	TMEM39B	9.215800403	0.043796356
-0.377283905	NM_032807	FBXO18	9.553380584	0.004868803
-0.377121941	NM_152909	ZNF548	7.532943747	0.000551733
-0.377109242	BX092531	NA	7.246369428	0.046198931
-0.37707644	NM_025154	UNC84A	9.543743806	0.000725633
-0.376835389	NM_183373	C6orf145	7.532838219	0.036197684
-0.376606316	XM_940430	LOC648852	6.747182325	0.001482196
-0.376490628	NM_025209	EPC1	8.75775762	0.049344023
-0.37646487	NM_018030	OSBPL1A	9.076165344	0.001061215
-0.37624325	NM_001009555	SH3D19	6.349657595	5.58E-05
-0.376216543	NM_001031733	CALML4	9.313138151	0.005682384
-0.37581689	NM_172369	C1QC	11.24045672	0.044486083
-0.375554436	NM_001008490	KLF6	8.200185817	0.04094942
-0.375266899	NM_001733	C1R	6.359777184	0.001710748
-0.375191121	NM_006206	PDGFRA	6.291648449	0.000162878
-0.375117778	NM_007225	NXPH3	6.418020514	0.000145856
-0.374994394	NM_006366	CAP2	6.231545277	0.000361053
-0.374019478	NM_025134	CHD9	9.802398402	0.007235511
-0.373670609	NM_001033523	GUSBL1	6.944655256	0.004115826
-0.37357941	NM_032849	C13orf33	6.485439041	0.000102792
-0.373509542	NM_004379	CREB1	8.155506893	0.046011926
-0.373267401	NM_022370	ROBO3	7.838020602	0.020290932
-0.373232031	NM_022338	C11orf24	7.632581668	0.00387419
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-0.372671901	NM_032753	RAXL1	7.736967022	0.000237027
-0.37257655	NM_018243	Sep-11	7.055863371	0.000958135
-0.372257146	NM_014226	RAGE	7.31580481	0.013945107
-0.371900573	NM_000345	SNCA	8.508003626	0.026502063
-0.371160182	NM_016603	C5orf5	8.66859611	0.005770252
-0.370914019	NM_020824	ARHGAP21	10.01096235	0.010174448
-0.370611628	NM_001467	SLC37A4	9.422680996	0.003430559
-0.370168661	NM_176895	PPAP2A	6.95206913	0.001193801
-0.369930547	NM_016377	AKAP7	8.466008455	0.005462548
-0.36976352	NM_005324	H3F3B	11.16603692	0.011270254
-0.369265319	NM_024742	ARMC5	7.439067447	0.018590068
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-0.368089095	BX093329	NA	7.456212298	0.014547163
-0.367157201	XM_938743	DPY19L1	9.067065424	0.003980548
-0.366720817	NM_014066	COMMD5	7.321210561	0.000996767
-0.36562333	NM_013450	BAZ2B	9.718433829	0.01226624
-0.365255115	H93027	NA	6.268253858	0.015930258
-0.364964069	NM_001127	AP1B1	10.20523463	0.00021043
-0.364680819	NM_018293	ZNF654	7.081105575	0.015377586
-0.36453811	NM_003884	PCAF	10.08495952	2.55E-05
-0.364129016	NM_007222	ZHX1	9.396960931	0.007499192
-0.364071887	NM_052950	WDFY2	8.766689614	2.23E-05
-0.363959023	AK095358	NA	8.281310974	0.000738659
-0.363933574	NM_016395	PTPLAD1	7.622503414	0.01214456
-0.363568294	NM_015443	KIAA1267	8.959424232	0.009946817
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-0.363427534	BC035116	NA	8.752096359	0.026830957
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-0.362737909	NM_004713	SDCCAG1	8.18495724	0.048731422
-0.362633429	NM_006141	DYNC1LI2	10.57812518	0.006355941
-0.3626107	NM_015554	GLCE	8.229428117	0.016834197
-0.362502023	NM_024104	C19orf42	8.705960804	0.00192179
-0.362331458	NM_018263	ASXL2	9.545408779	0.024059462
-0.361744107	NM_012478	WBP2	11.91422643	0.000613978
-0.361689538	NM_006750	SNTB2	7.605345424	0.001218454
-0.361614849	NM_001261	CDK9	9.851430711	0.015203747
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-0.361565229	NM_020919	ALS2	8.06650669	0.000272591
-0.36146876	NM_203284	RBPJ	12.43092151	0.000359373
-0.361455554	NM_032385	C5orf4	6.466501627	0.000616519
-0.361447955	XM_928770	NA	6.357160754	0.00013108
-0.361294908	NM_022474	MPP5	7.561745306	0.009634305
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-0.359378586	NM_020904	PLEKHA4	6.43522701	0.000738659
-0.359110246	NM_152491	FLJ32569	6.369016633	0.000467025
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-0.358638272	NM_001005463	EBF3	6.388590131	0.001013671
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-0.357446024	NM_021198	CTDSP1	10.02923538	0.000766212
-0.357205152	NM_016456	TMEM9	7.821557338	0.001499287
-0.357195173	NM_144973	MGC24039	6.80556931	0.011686608
-0.357168138	NM_016235	GPRC5B	6.876608528	0.004158898
-0.355633675	NM_003451	ZNF177	6.765082907	0.023728469
-0.354995158	NM_005110	GFPT2	6.472045051	0.006377605
-0.354820623	NM_005290	GPR15	6.243604825	0.001255612
-0.354553056	NM_003272	GPR137B	10.26809327	0.010905401
-0.354097806	NM_201559	FOXO3	6.561638412	0.007460963
-0.354042059	NM_020899	ZBTB4	7.924855383	0.017987935
-0.353562843	NM_014061	MAGEH1	7.109302073	1.95E-05
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-0.35306634	NM_019067	GNL3L	8.421111415	0.005038525
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-0.352829177	NM_005505	SCARB1	10.4504552	0.01941857
-0.352748486	NM_006558	KHDRBS3	6.930073552	0.005432996
-0.352674313	NM_014298	QPRT	6.590849081	0.006968398
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-0.352350477	NM_130438	DYRK1A	9.85413421	0.000123598

-0.352343201	NM_003428	ZNF84	8.114284629	0.001730363
-0.351603492	NM_004849	ATG5	7.168089918	0.01261072
-0.351130005	NM_172193	KLHDC1	7.379742519	0.032588901
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-0.34972513	NM_000263	NAGLU	8.743300922	0.000944083
-0.349071678	BX109290	NA	6.980877156	0.001765687
-0.348713418	NM_006773	DDX18	10.25101694	0.00356964
-0.348664067	NM_001012756	ZNF260	7.113136868	0.008269687
-0.348176441	NM_031207	HYI	7.284860417	0.031293864
-0.347110349	NM_015132	SNX13	7.964913235	0.010843192
-0.346978815	NM_002763	PROX1	6.319099304	0.00013726
-0.346870076	NM_198219	ING1	8.326042343	0.013083731
-0.346856639	XM_938851	NA	9.580701281	0.033542039
-0.346826528	XM_929124	NA	7.068751432	0.000150217
-0.34665249	NM_020192	C7orf36	6.564549523	0.020633104
-0.346425772	NM_006026	H1FX	8.621852863	0.00650594
-0.346419021	NM_001007189	LOC492311	6.99530305	0.010693959
-0.34633759	NM_021642	FCGR2A	11.9377034	0.023119982
-0.34594104	NM_016195	MPHOSPH1	7.814871691	0.004524752
-0.345652616	NM_017680	ASPN	6.280016408	0.004868803
-0.345497168	NM_005938	FOXO4	9.119525326	0.002549012
-0.345209911	NM_016608	ARMCX1	8.883332832	0.022021119
-0.345108026	NM_001024847	TGFBR2	11.24896057	0.02798333
-0.344793816	NM_144650	ADHFE1	8.438002743	0.007469242
-0.344556813	NM_178177	NMNAT3	6.788735537	0.003349696
-0.3444387	NM_025179	PLXNA2	6.485408139	0.000227403
-0.34418751	NM_080645	COL12A1	6.430374883	0.000883252
-0.344076624	NM_001556	IKBKB	9.33599214	0.001158401
-0.343910745	AK000839	NA	6.412016695	0.001010968
-0.343812439	NM_000050	ASS1	6.593547982	0.007173231
-0.343586429	NM_015655	ZNF337	8.015726334	0.000627316
-0.343481653	NM_199126	ZNF585A	6.90197474	0.001680922
-0.343146149	NM_015313	ARHGEF12	6.655664616	0.009427081
-0.342402731	NM_022349	MS4A6A	13.01242615	0.047196652
-0.341747845	NM_001621	AHR	12.34609919	0.038468944
-0.340949297	AW020492	NA	6.57559082	0.011096705
-0.340937245	NM_005357	LIPE	6.36855397	0.000889642
-0.340482718	NM_001013670	LOC400464	7.289998685	0.000121108
-0.340451759	NM_032484	GHDC	9.705010488	0.000203127
-0.340363132	NM_152341	PAQR4	9.073584601	0.040330649
-0.340296926	NM_025132	WDR19	8.206057626	0.000375435
-0.339721898	NM_001801	CDO1	6.522574267	0.00021922
-0.339019866	NM_018416	FOXJ2	10.59152839	0.016907081
-0.338726384	XM_925839	LOC158301	7.810769799	0.00428444
-0.338512369	NM_001031725	DDX59	8.594402231	0.001381152
-0.337611581	NM_032870	SFRS18	8.968227024	0.044153885
-0.337546219	NM_018083	ZNF358	9.022055239	0.009234616
-0.337520585	NM_021646	ZNF500	6.95729391	0.018961761
-0.337268422	AI693930	NA	6.381521511	0.005886374
-0.337143977	NM_002943	RORA	6.975742073	0.007826219
-0.336806448	NM_015689	DENND2A	6.302442645	0.000212718
-0.33667805	BX112120	NA	6.592403244	0.000386345
-0.336613714	XR_001087	NA	8.017543549	0.005128438
-0.336541026	NM_001025080	NA	9.704878351	0.02451213
-0.336310667	NM_181724	TMEM119	6.773182453	0.003070716
-0.336251611	BC040701	NA	6.377787323	0.001608072
-0.336027449	BX537605	NA	7.827099374	0.044153885
-0.33583932	NM_147134	NFX1	7.794462581	0.000942638
-0.335641308	XR_001524	NA	6.917604702	0.036135949

-0.334943508	NM_002270	TNPO1	8.730868766	0.036760295
-0.334793714	NM_022167	XYLT2	8.222408681	0.019524234
-0.334494711	BX109218	NA	6.578727805	0.003432638
-0.334048241	NM_148914	ABHD11	6.946300747	0.014334776
-0.334000998	NM_207442	FLJ39779	7.426774814	0.02168331
-0.333923881	NM_006990	WASF2	10.26033191	0.035391946
-0.333676107	NM_001031812	CSNK1G3	7.614631018	0.005578726
-0.333526832	XM_928156	NA	13.43290148	0.002872311
-0.333442625	NM_177424	STX12	8.836218427	0.000462397
-0.333193453	NM_032924	ZNF3	7.282287274	0.000411371
-0.333185235	NM_006090	CEPT1	10.04551264	0.017335636
-0.333037715	NM_017934	PHIP	9.029590853	0.027947862
-0.33299919	NM_202468	GIPC1	7.053387471	0.002319156
-0.331942173	NM_024620	ZNF329	7.105682745	0.008426708
-0.331505792	NM_002079	GOT1	8.20866431	0.029339377
-0.331253826	NM_182905	FAM39E	8.596250057	0.004225445
-0.331226367	NM_014667	VGLL4	8.941297395	0.008860329
-0.331178096	NM_023927	GRAMD3	7.3933	0.009220276
-0.330659368	NM_016641	MIR16	8.732722131	0.004851811
-0.330609511	NM_003918	GYG2	6.507931485	0.000749769
-0.330513126	NM_014853	SGSM2	10.1213918	0.021965052
-0.330327119	NM_013374	PDCD6IP	8.719419977	0.000375771
-0.330100633	NM_199181	C20orf117	8.533299045	0.017494556
-0.329816557	XM_936220	NA	6.850668471	0.0034929
-0.329012916	NM_018097	CEP27	8.286914936	0.023579331
-0.328964241	NM_014877	HELZ	9.747073678	0.003968256
-0.328881494	NM_001061	TBXAS1	11.28380894	0.005015789
-0.32861228	NM_019023	PRMT7	8.660143878	0.000934795
-0.328170137	NM_004019	DMD	6.260763243	0.001355721
-0.327874598	NM_006871	RIPK3	8.294329363	0.003562995
-0.327507262	NM_144576	COQ10A	7.828496783	0.00703783
-0.327015604	NM_130468	CHST14	7.461199781	0.027135779
-0.326669477	NM_005359	SMAD4	9.721925967	0.013690492
-0.326238422	NM_175872	ZNF792	6.65527715	0.024523113
-0.326181469	NM_022736	MFSD1	11.51413358	0.049343718
-0.326096328	NM_014315	KLHDC2	8.714003198	0.041264456
-0.325946588	AK095855	NA	10.58031339	0.025877817
-0.325748125	NM_004780	TCEAL1	7.830157399	0.010683284
-0.325616037	NM_018640	LMO3	6.260292363	0.004006842
-0.325401412	NM_021217	ZNF77	6.645056736	0.025632414
-0.325334178	NM_014487	ZNF330	10.18456152	0.022926191
-0.324823305	NM_033429	CALML4	8.166183119	0.010300146
-0.323856957	NM_015523	REXO2	9.641913266	0.000473241
-0.32381605	NM_018247	TMEM30A	9.357289762	0.015679073
-0.322704854	AK026373	HNRNPA2B1	9.166892966	0.033727673
-0.322376067	NM_018285	IMP3	10.38228583	0.036761669
-0.322284108	NM_002660	PLCG1	6.52544835	0.00030123
-0.321728573	NM_058187	C21orf63	6.91493953	0.003201149
-0.321684125	NM_031455	CCDC3	6.648443402	0.000670264
-0.321625594	NM_014347	ZNF324	7.77567435	0.035031262
-0.32162226	NM_001031719	DHRS12	7.346938815	9.18E-05
-0.321501832	NM_003309	TSPYL1	10.09169142	0.002599342
-0.321345045	NM_002519	NPAT	7.584390152	0.019406644
-0.321254884	NM_032642	WNT5B	7.09925033	0.00309685
-0.320634535	NM_018201	TBC1D13	7.899753503	0.00073224
-0.320548247	NM_031426	C9orf58	7.132022401	0.002016904
-0.320423528	NM_015702	C2orf25	10.65330443	0.039052595
-0.319797213	NM_175856	CHSY-2	6.343376338	0.003268948
-0.31966441	NM_198282	TMEM173	9.255654712	0.002043683
-0.319596038	NM_173582	PGM2L1	6.936275004	0.019270007
-0.319370046	NM_001918	DBT	7.818607348	0.011986486

-0.319302042	NM_145074	HTRA2	8.395199851	0.015445922
-0.318053692	NM_012249	RHOQ	11.80824841	0.008846452
-0.317551712	NM_032347	ZNF397	6.671098978	0.004112991
-0.317368609	NM_016618	KRCC1	8.021161226	0.009891996
-0.317137628	XM_944409	NA	6.162811436	0.000118318
-0.316058755	NM_020323	ABCD4	6.972932202	0.003551317
-0.316055093	XR_001498	NA	7.066460959	0.039629142
-0.316029156	NM_148957	TNFRSF19	6.281318513	0.00577519
-0.316028353	BC062365	NA	6.420603905	0.002319156
-0.315736588	NM_003273	TM7SF2	7.086219274	0.002548385
-0.315701213	XM_938693	NA	6.492415865	0.00054883
-0.315700358	XM_927305	NA	6.57774092	0.044708077
-0.31540774	NM_013313	YPEL1	7.010128162	0.000571663
-0.31534312	NM_004907	IER2	8.124995073	0.038944023
-0.315193969	AI823459	NA	6.336302136	0.000841924
-0.314886836	NM_018100	EFHC1	7.266465067	0.001274192
-0.314514502	NM_014603	CDR2L	6.665485636	0.002253038
-0.314238112	NM_012307	EPB41L3	11.6731943	6.09E-05
-0.314104603	NM_019591	ZNF26	7.582576645	0.005605284
-0.314006783	NM_145913	SLC5A8	7.140126141	0.000315267
-0.313232098	NM_002350	LYN	12.10533003	0.018652031
-0.31318092	NM_016307	PRRX2	6.52320192	4.53E-05
-0.313056169	XM_944019	NA	11.05257531	0.028985389
-0.31263034	NM_003538	HIST1H4A	6.426295133	0.003443158
-0.311514902	NM_014912	CPEB3	8.735134493	0.00238671
-0.311335421	NM_012233	RAB3GAP1	9.662402932	0.005655352
-0.310999247	NM_005981	TSPAN31	9.58198389	0.005180345
-0.31083985	XM_938910	SH3MD4	6.499294199	4.51E-05
-0.310433026	NM_152348	WDR81	7.654874398	0.046191623
-0.310207305	XR_001345	NA	6.240583768	0.000340796
-0.309901392	NM_001996	FBLN1	6.295227348	0.009324284
-0.309880672	NM_000355	TCN2	9.665013599	0.046875581
-0.309621168	NM_018157	RIC8B	7.543332564	0.003185992
-0.309070302	NM_144599	NIPA1	7.001063731	0.041942157
-0.309000179	DB298666	FLJ46875	6.209836037	0.003780439
-0.30880287	NM_013433	TNPO2	9.331763307	0.002581109
-0.308731663	AJ420543	NA	6.387147017	0.008508624
-0.308358548	NM_000163	GHR	6.222560929	0.002677977
-0.30827967	NM_007202	AKAP10	7.878122916	0.028363945
-0.308278079	NM_001024843	TNRC6B	9.39801584	0.036700304
-0.308260274	NM_138717	PPT2	6.787815319	0.000556466
-0.308245023	AK024898	NA	6.670533843	0.000597989
-0.307894405	NM_003335	UBE1L	9.901032197	0.00013726
-0.307751007	NM_001031725	DDX59	8.451475563	0.021259667
-0.307602735	XM_290629	AHNAK2	6.348974534	0.016455974
-0.307386421	NM_001061	TBXAS1	11.66593732	0.004507554
-0.307352038	NM_001017923	C14orf28	6.762749786	0.003941547
-0.307207189	NM_181093	SCYL3	6.878906214	0.028178571
-0.307187876	NM_001262	CDKN2C	7.022317891	0.019844094
-0.306832026	NM_005838	GLYAT	6.262593364	0.002604287
-0.306812013	NM_005687	FARSB	6.836616849	0.004854973
-0.306686102	NM_152756	RICTOR	8.66975129	0.015056684
-0.306498581	NM_178454	TMEM77	9.703324644	0.016399795
-0.306340895	NM_006412	AGPAT2	8.252398913	0.02128996
-0.306250166	BX110313	NA	6.576114383	0.030403539
-0.305910068	NM_016948	PAR6A	7.713293313	0.034488262
-0.305786536	NM_198542	ZNF773	6.730246307	0.004259844
-0.305752516	NM_003595	TPST2	7.346978953	0.006712187
-0.305713277	NR_002323	TUG1	11.43271739	0.000291232
-0.30555825	XM_499022	LOC441124	7.252674748	0.003117559
-0.305453286	NM_006757	TNNT3	6.461386251	0.00784982

-0.304727841	BX641108	NA	9.086588981	0.010452502
-0.304685937	NM_018367	PHCA	9.52326076	0.032591813
-0.304557345	NM_152725	SLC39A12	6.318967966	0.009108707
-0.304484647	NM_005870	SAP18	8.53823655	0.00292095
-0.304165176	NM_018115	SDAD1	9.218805426	0.015999988
-0.304024273	NM_003177	SYK	10.19883735	0.024936717
-0.303831679	NM_001031684	SFRS7	9.046835408	0.010904531
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-0.302896303	NM_014262	LEPREL2	6.638252788	0.014301875
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-0.302373761	XM_929509	NA	9.734457324	0.004064753
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-0.298238081	NM_170686	ZNF398	6.942038466	0.001132769
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-0.293085656	NM_002023	FMOD	6.458593213	0.003069692
-0.292899841	XM_931824	NA	6.597174028	0.005959555
-0.292801834	NM_018287	ARHGAP12	7.833706267	0.026766514
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-0.29243166	NM_198457	ZNF600	6.67479642	0.00907366
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-0.291915301	NM_014970	KIFAP3	8.666969005	0.002391716
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-0.29115775	NM_018045	BSDC1	9.82180881	0.010313646
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-0.29103166	NM_014044	UNC50	10.57161953	0.004139963
-0.290696662	NM_018670	MESP1	6.52162405	0.003971919
-0.290410808	NM_000632	ITGAM	10.87145564	0.041849635
-0.290015798	NM_152718	VWCE	6.353407948	0.047119056
-0.289906282	NM_022089	ATP13A2	7.512328837	0.025916385
-0.289532062	NM_002197	ACO1	9.186042984	0.002476864
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-0.28913342	NM_020745	AARS2	7.384047422	0.01314284
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-0.288859681	NM_201434	RAB5C	10.61234401	0.001633429
-0.288823587	NM_012115	CASP8AP2	7.183716943	0.045095092
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-0.288758908	NM_019035	PCDH18	6.313697472	0.000405078
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-0.28738235	NM_007039	PTPN21	6.206324445	0.009362726
-0.28708558	NM_003071	HLTF	7.378690912	0.011983157
-0.286996981	NM_032116	KATNAL1	6.990940911	0.024312016
-0.28619207	NM_017842	FLJ20489	7.128352076	0.017263396
-0.285985172	NM_006874	ELF2	6.5036491	0.005977535
-0.285951405	NM_000788	DCK	9.801104846	0.034257317
-0.285623324	NM_005730	CTDSP2	10.85591024	0.021992409
-0.285475625	NM_003075	SMARCC2	8.970854062	0.014065485
-0.285273368	NM_015987	HEBP1	9.926205059	0.003640387
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-0.284377289	XM_944786	NA	7.697181159	0.006530544
-0.284181504	NM_033419	PERLD1	8.808889909	0.016533549
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-0.283316983	NM_152309	PIK3AP1	7.400187609	0.015553149
-0.283056765	NM_001029950	DKFZp434K191	7.492340117	0.03013399
-0.282869699	NM_001967	EIF4A2	12.68074852	0.049223129
-0.282562653	NM_001011703	FAM125B	6.437102662	0.000837457
-0.28244556	XM_932723	NA	6.603662712	0.030580851
-0.282022316	NM_006582	GMEB1	7.723563073	0.006354954
-0.281984858	NM_000668	ADH1B	6.334248391	0.005518604
-0.281350288	NM_173082	SHPRH	7.550894021	0.030660965
-0.281140902	NM_006955	ZNF33B	8.220391741	0.013238829
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-0.280710613	NM_006629	ZNF271	7.86187317	0.021032222
-0.280380469	NM_173083	LIN9	6.754278536	0.035174863
-0.280299504	XM_944019	NA	6.632598678	0.013607336
-0.280078607	NM_001439	EXTL2	7.076412003	0.003177946
-0.280060051	NM_198474	OLFML1	6.282006503	0.022345424

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-0.279024458	BX100078	NA	6.591887885	0.007929548
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-0.277758099	BC041923	ZNF404	7.0645019	0.018149982
-0.277660901	NM_025103	IFT74	6.825619131	0.038824712
-0.277507934	NM_152221	CSNK1E	7.117539296	0.037381467
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-0.27732905	NM_014773	KIAA0141	9.141820557	0.023540377
-0.277329032	XM_938483	NA	10.8548444	0.041842127
-0.277080667	NM_006256	PKN2	6.560793709	0.024729677
-0.276645408	NM_152414	BHLHB5	6.198894718	0.009384679
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-0.275937002	NM_138412	RDH13	6.888065177	0.02230358
-0.275904739	NM_001007026	ATN1	7.124734867	0.004028775
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-0.274409592	NM_198943	FAM39B	9.101124957	0.006057013
-0.273958509	NM_022090	LOC63920	6.510445731	0.01029388
-0.273828749	NM_024948	C10orf97	7.646993206	0.030456272
-0.273556001	NM_181699	PPP2R1B	6.631185095	0.046724205
-0.273431695	AL833054	NA	6.945486869	0.034067241
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-0.272639092	NM_175859	CTPS2	7.85696081	0.029660699
-0.272613707	NM_003929	RAB7L1	8.823115853	0.013032415
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-0.271780777	NM_001017998	GNG10	10.81822135	0.044190108
-0.271404883	NM_145645	NSUN5B	6.694069983	0.006160237
-0.271166558	NM_004641	MLLT10	8.902593882	0.004700773
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-0.270485168	NM_030818	CCDC130	10.43873144	0.008210227
-0.270124075	NM_003753	EIF3D	12.04138796	0.003810159
-0.269717205	NM_001010914	NA	6.468776163	0.015486374
-0.2691842	NM_138440	VASN	6.454268685	0.009951869
-0.26869398	NM_001400	EDG1	6.952919513	0.049003883
-0.268536606	NM_014045	LRP10	10.10360093	0.02447227
-0.268505367	NM_001031628	LOC57228	6.745417933	0.009892212
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-0.267735575	NM_001429	EP300	8.640782775	0.001906591
-0.26767499	NM_001031835	PHKB	9.6978487	0.00277711
-0.267053107	NM_020673	RAB22A	8.691790695	0.009485181
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-0.266027626	NM_199334	THRA	6.769107733	0.019475407
-0.265757935	AK091091	NA	6.844211819	0.000166939
-0.26575657	XM_034819	ZNF629	7.544007386	0.013525322
-0.265465648	NM_016022	APH1A	11.07950063	0.006101562
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-0.265253324	NM_020870	SH3RF1	7.04150073	0.03802513
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-0.2650628	XM_940433	ZNF389	6.326733613	0.013032415
-0.264941404	NM_005775	SORBS3	8.194963467	0.037968711
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-0.264614282	NM_004962	GDF10	6.194678014	0.004914386
-0.264199056	NM_006455	SC65	6.528015399	0.004697432
-0.264186793	NM_004615	TSPAN7	6.203581185	0.001265956
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-0.262728345	NM_024552	LASS4	6.876708819	0.009391411
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-0.262550849	AA532505	NA	6.172794477	0.000399557
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-0.262321866	NM_005740	DNAL4	8.387384433	0.004908396
-0.262286166	NM_005964	MYH10	6.301681202	0.003037826
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-0.262005873	NM_152306	NA	7.456671086	0.0321154
-0.261619457	AK130049	NA	6.514269079	0.012946048
-0.261615714	NM_001029896	WDR45	8.858370373	0.033059307
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-0.261398558	XM_939699	C20orf82	6.12650666	0.001612532
-0.261327477	NM_000584	IL8	13.4676792	0.039210634
-0.26125268	BM715751	NA	6.353643517	0.000222862
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-0.260613234	BX117059	NA	6.396343231	0.005045981
-0.260447993	NM_012288	TRAM2	7.928957079	0.047973084
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-0.260230238	AV652851	NA	6.830549502	0.015632007
-0.260130444	NM_001004343	MAP1LC3C	6.548098442	0.011322084
-0.26012068	NM_005867	DSCR4	6.622792446	0.044442697
-0.259912979	NM_000696	ALDH9A1	11.14593955	0.046011926
-0.259806097	NM_030783	PTDSS2	7.879061196	0.027218594
-0.25977474	NM_079834	SCAMP4	7.117966249	0.03873358
-0.259576146	NM_017835	NA	8.38822996	0.032261671
-0.259511054	XM_927344	FLJ45055	7.770665971	0.009683569
-0.259491217	NM_004612	TGFBR1	7.209962712	0.004352681
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-0.259197003	NM_212530	NA	9.46074356	0.003939507
-0.25904703	NM_005455	ZRANB2	8.266292911	0.005811427
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-0.258700784	BX088674	NA	6.278532719	0.044850277
-0.25852545	NM_138284	IL17D	6.206950078	0.005512414
-0.258226303	NM_004879	EI24	9.320983616	0.022454214
-0.258143283	NM_001856	COL16A1	6.386366848	0.003627896
-0.258116028	NM_139353	TAF1C	9.960964085	0.010595508
-0.258089858	NM_006547	IGF2BP3	6.629358937	0.014299647
-0.257181385	NM_002847	PTPRN2	6.709318135	0.011084893
-0.256920634	XM_936698	ARL5C	6.178273577	0.001660719
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-0.25665801	NM_001020821	MYADM	6.409205594	0.004760006
-0.256568041	NM_002978	SCNN1D	6.965829199	0.028612723
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-0.256353552	NM_203446	SYNJ1	7.608569037	0.020608769
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-0.255831721	NM_207371	C10orf140	6.33004599	0.009955873
-0.255758498	NM_018318	CCDC91	7.666188529	0.033029168
-0.25564607	NM_178127	ANGPTL5	6.149911244	0.001797472
-0.255208467	NM_018255	ELP2	7.785978888	0.009949381
-0.254844692	NM_017898	MOSC2	6.459538464	0.015529751
-0.254798067	NM_006084	ISGF3G	10.01413823	0.004848342
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-0.254269548	NM_005545	ISLR	6.290838811	0.004584671

-0.254066576	XM_498704	LOC440498	7.329536353	0.024936717
-0.254049087	NM_020776	KIAA1328	6.84633079	0.005317684
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-0.253885022	NM_018121	C10orf6	7.582505213	0.010905154
-0.253875151	NM_002969	MAPK12	6.313705092	0.001484579
-0.253825912	NM_015252	EHBP1	8.280428424	0.005886374
-0.253678529	NM_133375	DIS3L	8.914947802	0.013266327
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-0.253616765	NM_198316	TENC1	6.153385888	0.001010692
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-0.253542237	NM_182923	KLC1	8.821802125	0.022469172
-0.253435978	NM_000197	HSD17B3	6.474490915	0.002289949
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-0.252537592	NM_178558	ZNF680	6.482158155	0.018851058
-0.252153797	NM_003014	SFRP4	6.435268403	0.002906957
-0.251696884	NM_024910	ZNF767	6.613864219	0.035244709
-0.251648823	NM_024633	NA	8.314568654	0.025632414
-0.251626766	NM_020185	DUSP22	10.03201734	0.004112991
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-0.250526685	NM_000140	FECH	7.651477175	0.032261671
-0.25016349	NM_001054	SULT1A2	6.437521283	0.010825813
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-0.249894286	NM_052869	TTYH2	9.212129221	0.020529882
-0.249876379	NM_183376	ARRDC4	7.816440525	0.03608501
-0.249373616	NM_012103	NA	9.337325594	0.004066415
-0.249302609	NM_012428	NPTN	8.531033608	0.007479207
-0.249211918	NM_014629	ARHGEF10	6.555701366	0.004906877
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-0.248735877	NM_174911	FAM84B	6.436939096	0.042256522
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-0.248583509	NM_003099	SNX1	8.191848333	0.010880108
-0.248555588	NM_004568	SERPINB6	11.62219335	0.001031007
-0.248309213	NM_003598	TEAD2	6.331354467	0.015193239
-0.248224228	NM_006667	PGRMC1	10.72457017	0.000953106
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-0.248108857	NM_000304	PMP22	6.436839203	0.015486374
-0.247501154	NM_006803	AP3M2	7.247360497	0.027805441
-0.247451561	NM_004684	SPARCL1	6.400646806	0.008020441
-0.247179987	NM_145274	TMEM99	7.326305254	0.012164124
-0.246774861	AL832164	LOC283666	6.419610326	0.008508624
-0.246769487	NM_015512	DNAH1	8.679753535	0.047635834
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-0.246438264	NM_003239	TGFB3	6.424319959	0.009531321
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-0.245902769	NM_004675	DIRAS3	6.203784033	0.00292994
-0.245873518	NM_002655	PLAG1	6.285445934	0.014436004
-0.245511012	NM_153646	SLC24A4	7.86024503	0.020618581
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-0.24514585	NM_018181	ZNF532	7.852220241	0.036852297
-0.245050821	NM_032324	C1orf57	8.101098188	0.035795921
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-0.244482237	NM_145306	C10orf35	6.291270757	0.027955972
-0.244328158	NM_017637	BNC2	6.377972875	0.048762956
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-0.241883722	NM_197958	LARP6	6.168862605	0.007273395
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-0.240114977	NM_003377	VEGFB	8.021976721	0.024972474
-0.239857953	NM_014739	BCLAF1	10.30307386	0.045407098
-0.239618678	NM_153705	KDEL2	7.417649562	0.023728469
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-0.239233607	NM_138689	PPP1R14B	10.67749644	0.023914164
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-0.238637734	NM_152434	CWF19L2	8.438011713	0.012164124
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-0.238406894	NM_015336	ZDHHC17	8.292016145	0.022117129
-0.238051308	NM_024646	ZYG11B	9.782241787	0.013204329
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-0.23545889	NM_006392	NOL5A	8.769772164	0.025740361
-0.235425812	NM_005772	RCL1	7.061078519	0.035967593
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-0.23429398	NM_024947	PHC3	7.289289758	0.036874564
-0.234266971	NM_006997	TACC2	6.193443136	0.004324325
-0.234139846	NM_022307	ICA1	6.305206357	0.002669913
-0.234087604	NM_152994	CCDC128	9.642421417	0.002798992

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-0.233904258	NM_020153	C11orf60	7.22057858	0.006944432
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-0.233272539	NM_004995	MMP14	6.596202695	0.017982782
-0.232577003	NM_013382	POMT2	7.455353597	0.003614777
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-0.232187284	NM_002482	NASP	7.900202893	0.003726206
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-0.230217167	XM_378454	LOC283547	6.294383339	0.026053541
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-0.228219026	NM_000848	GSTM2	6.748984322	0.020995248
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-0.22596418	NM_016429	COPZ2	6.566538076	0.026626659
-0.225951579	NM_006855	KDELRL3	6.207830884	0.00076405
-0.225907354	NM_016210	C3orf18	6.553079054	0.004066415
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-0.225710366	NM_198859	PRICKLE2	6.263860577	0.003101649
-0.225214695	NM_147196	TMIE	6.235572188	0.003546835
-0.225110658	NM_025133	FBXO11	10.28588217	0.046393083
-0.225066373	NM_005933	MLL	7.504718284	0.005605284
-0.224863682	AI369207	NA	6.182462789	0.001521747
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-0.223120265	NM_005807	PRG4	6.127786063	0.027864848
-0.222986741	NM_000669	ADH1C	6.195046753	0.016867126
-0.222953568	NM_000474	TWIST1	6.269195723	0.004516155
-0.222763199	NM_030881	DDX17	12.4382127	0.030662674
-0.222714721	NM_030639	BHLHB9	6.350957373	0.0006719
-0.222712271	NM_015355	SUZ12	10.40730541	0.048225608
-0.222596078	NM_003544	HIST1H4B	6.250653578	0.003971919
-0.222528097	NM_024685	BBS10	6.858153413	0.022093199
-0.222275164	NM_023947	CHID1	6.506257886	0.00361058
-0.221911697	NM_030664	PTER	7.150537566	0.036487259
-0.221786601	NM_052969	RPL39L	7.115754755	0.010313646
-0.221635162	NM_032801	JAM3	6.287258214	0.008287466
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-0.220943452	XM_928597	NA	6.401379296	0.018462703
-0.220839205	NM_020528	PCBP3	6.151181714	0.00068646
-0.22055769	NM_001033513	GPR34	6.267811469	0.000972624

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-0.219782664	NM_005049	PWP2	6.73203568	0.016031275
-0.219456881	CR622072	NA	6.875162011	0.005996638
-0.219334274	NM_152491	FLJ32569	6.160881303	0.015500241
-0.219038645	NM_003763	STX16	10.51474489	0.002712805
-0.218645608	NM_004930	CAPZB	10.97309891	0.024210954
-0.217753421	NM_001380	DOCK1	7.304623043	0.029339377
-0.217596161	NM_001512	GSTA4	6.583791743	0.004728256
-0.217485143	NM_003126	SPTA1	6.470158569	0.003035755
-0.21690915	XM_941180	NA	6.374076546	0.001938031
-0.216567087	NM_006246	PPP2R5E	9.404272186	0.032261671
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-0.21575216	CK299049	NA	6.261734954	0.018307334
-0.215706279	NM_000221	KHK	6.385568092	0.005483938
-0.21553068	XM_936731	NA	8.312674082	0.00173718
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-0.215406893	NM_032317	WBSCR18	6.429579882	0.033946147
-0.215076095	DA339715	NA	6.265901986	0.028645548
-0.215002022	NM_020149	MEIS2	6.156859319	0.002656703
-0.214783217	NM_014067	MACROD1	6.79568584	0.005605284
-0.214615111	BX093941	NA	6.176952388	0.007716863
-0.214234136	NM_023012	RSRC2	10.75762951	0.03148904
-0.213737843	NM_032049	AGTR1	6.381408068	0.008571208
-0.213427014	NM_005180	BMI1	9.052988667	0.030957682
-0.212527508	NM_001008239	C18orf25	9.660253499	0.004542765
-0.212390831	NM_025184	EFHC2	6.318995029	0.0079487
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-0.212133626	BX110547	NA	6.341631845	0.003900056
-0.212052449	NM_033200	TMEM112B	9.103889569	0.008508624
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-0.211921667	BI258188	ZNF33B	6.756913541	0.009441939
-0.211730272	NM_001031709	C10orf59	7.646628939	0.015930258
-0.21161498	NM_001752	CAT	11.24507235	0.035031262
-0.211494971	XM_937109	NA	6.342254174	0.0296432
-0.211446756	XM_930690	NA	6.880463933	0.009372473
-0.211370224	NM_014892	RBM16	7.899625844	0.011649551
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-0.211033684	AW296474	NA	6.326219181	0.022968989
-0.210806549	NM_138454	NXNL1	6.34350141	0.010097521
-0.210701448	NM_032974	CASP10	6.626206319	0.036160353
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-0.209852883	AB074043	NA	6.134270071	0.00493081
-0.208880146	BG564169	DBT	6.30587338	0.04964583
-0.208864004	BM666211	NA	6.314373727	0.009073896
-0.207971315	NM_031488	L3MBTL2	8.006814032	0.042600583
-0.207928184	NM_018017	C10orf118	6.719117693	0.044153885
-0.207861928	NM_005014	OMD	6.166502851	0.002548385
-0.207684923	NM_002718	PPP2R3A	7.075821436	0.017529532
-0.207341302	NM_018191	RCBTB1	7.045698918	0.006575071
-0.206758883	NM_001280	CIRBP	11.0516841	0.003725362
-0.206117622	BX105647	NA	6.247149942	0.015008001
-0.205910301	NM_181442	ADNP	7.79504183	0.035455649
-0.205662913	NM_021260	ZFYVE1	8.812168447	0.032133681
-0.20535731	XM_931879	NA	6.519313843	0.042194697
-0.205219432	NM_181527	NAT5	6.286173384	0.021328819
-0.204625734	NM_019852	METTL3	8.434399587	0.036242791
-0.204579106	BX115738	NA	7.111657381	0.026510628
-0.204547888	NM_015042	ZNF609	7.856528095	0.044412812

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-0.203549859	NM_005897	IPP	6.446165869	0.044793641
-0.203440852	NM_181838	UBE2D2	6.773918978	0.035244709
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-0.203117885	NM_016368	ISYNA1	6.679094684	0.039272309
-0.202927881	NM_014811	KIAA0649	6.917731644	0.04289336
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-0.202600005	NM_032840	SPRYD3	8.995096183	0.046943906
-0.202465352	NM_018357	LARP6	6.259418189	0.005605284
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-0.201417826	NM_012120	CD2AP	7.047758445	0.025088623
-0.201087508	NM_030573	THAP7	7.214822183	0.020008361
-0.200977367	NM_001460	FMO2	6.304779488	0.045407098
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-0.199385923	NM_006862	TDRKH	6.406731677	0.032570664
-0.198957554	XR_001436	NA	6.327823957	0.026311451
-0.198339317	NM_145331	MAP3K7	9.573683077	0.01657444
-0.198155566	NM_147128	ZNRF2	6.244976572	0.016835737
-0.198124467	NM_014585	SLC40A1	6.342803231	0.003154301
-0.197796205	NM_020145	SH3GLB2	7.716629602	0.011807328
-0.197746614	NM_012207	HNRPH3	7.746208819	0.039037392
-0.197527465	XM_498063	NA	6.450768999	0.01175331
-0.196986664	CN357235	NA	6.571870913	0.028602528
-0.196918871	XM_943533	LOC346887	7.108185643	0.019812189
-0.196860568	NM_024016	HOXB8	6.201416524	0.033835774
-0.196827339	NM_020909	EPB41L5	6.352932501	0.003735338
-0.196552964	NM_203448	MGC21881	7.093770497	0.013661482
-0.196103628	NM_022731	NUCKS1	7.169525612	0.021779904
-0.196043033	NM_017786	GOLSYN	6.084516076	0.00292095
-0.195696976	NM_033427	CTTNBP2	6.379730803	0.015000372
-0.19569478	NM_001009944	PKD1	7.471239581	0.040545606
-0.195664355	NM_007270	FKBP9	6.659407045	0.036487259
-0.195617754	NM_015944	AMDHD2	7.053376637	0.013453614
-0.194960633	NM_000899	KITLG	6.232764059	0.02900714
-0.194947398	NM_024682	TBC1D17	6.787638287	0.034334096
-0.194587339	XM_931843	NA	8.131786324	0.02308418
-0.194527279	NM_021965	PGM5	6.303296714	0.001003916
-0.194411904	NM_175921	LOC285636	8.980922915	0.014778977
-0.194383935	NM_012190	ALDH1L1	6.265643802	0.002098867
-0.193986475	NM_030974	SHARPIN	8.526903862	0.012388285
-0.19380727	NM_144629	RFTN2	6.363599591	0.009180327
-0.193401409	NM_021239	RBM25	9.427666111	0.023728469
-0.192855434	NM_018412	ST7	7.674623855	0.011021089
-0.192845201	NM_017820	FLJ20433	6.571189332	0.022224229
-0.192650904	NM_025165	ELL3	6.4594123	0.004545816
-0.192552206	NM_014268	MAPRE2	10.29785098	0.032261671
-0.192109216	NM_201442	C1S	6.147183095	0.008813087
-0.191689692	XM_936503	NA	6.273930619	0.022119718
-0.191628761	NM_000203	IDUA	8.50696304	0.008287466
-0.191520138	XM_938283	C17orf68	6.991718426	0.033253263
-0.191388131	NM_021212	NA	8.081118683	0.009315051
-0.190585003	NM_022773	TMEM112	6.752139418	0.012388285
-0.190380375	NM_144498	OSBPL2	8.795925803	0.045404093
-0.190109931	NM_016172	UBAC1	10.75600732	0.012202098

-0.189968128	NM_006759	UGP2	6.889613144	0.027395426
-0.189461159	XM_936627	NA	13.23146353	0.043816043
-0.189302729	NM_021970	MAP2K1IP1	10.2860102	0.034195917
-0.189300026	BX107771	NA	6.93446186	0.040592975
-0.189078609	NM_004326	BCL9	6.704308642	0.014246329
-0.189078484	NM_176677	FLJ36208	6.221477746	0.021172795
-0.188801746	AU311828	NA	7.005216174	0.012418048
-0.18870936	NM_000177	GSN	6.451162215	0.008928271
-0.188274579	BG183717	NA	6.174161774	0.02224672
-0.188011727	NM_000049	ASPA	6.244858916	0.01427465
-0.187869433	NM_180976	PPP2R5D	7.171415477	0.035291354
-0.187754905	NM_015461	ZNF521	6.134506881	0.02764657
-0.187709215	NM_145015	MRGPRF	6.133226567	0.020568503
-0.187669843	NM_052848	CCDC97	8.764724604	0.025877817
-0.187629935	XM_945973	NA	8.472790777	0.044328988
-0.187604587	XM_934220	NA	6.548465077	0.047316407
-0.187410819	NM_133491	SAT2	9.714501849	0.043864783
-0.187342539	NM_000309	PPOX	8.024943398	0.020889497
-0.187171851	NM_022914	ACD	8.022458839	0.034246566
-0.187171002	NM_153377	LRIG3	6.144043087	0.007835448
-0.187143121	NM_013247	HTRA2	7.339999946	0.005388383
-0.18683108	NM_013409	FST	6.235102075	0.016209999
-0.186574984	NM_016931	NOX4	6.138933154	0.011067662
-0.186447686	NM_025176	RP4-691N24.1	6.343272202	0.000925073
-0.185331185	NM_203422	LOC221091	6.165018868	0.02798333
-0.1852384	NM_001012239	NA	6.498458396	0.027716689
-0.185202226	NM_001855	COL15A1	6.435187459	0.033981446
-0.185062846	NM_020715	PLEKHH1	6.300627778	0.017446243
-0.184832804	NM_024614	FLJ13197	6.200267503	0.00663224
-0.184468685	NM_003660	PPFIA3	6.300593998	0.002604287
-0.183693738	NM_152792	SASP	6.585974393	0.048590905
-0.183600442	NM_000426	LAMA2	6.347021482	0.008683281
-0.183231527	NM_003102	SOD3	6.224527295	0.006245863
-0.183130916	NM_018365	MNS1	6.270994517	0.018839281
-0.182548482	NM_015678	NBEA	6.395888503	0.010329649
-0.182472803	NM_032441	ZMAT1	6.279409414	0.016010279
-0.182406275	NM_152356	ZNF491	6.31686878	0.011454951
-0.182236066	NM_005288	GPR12	6.304287366	0.031778661
-0.181753631	NM_198459	DENND2C	6.503261956	0.042197107
-0.181552723	NM_005386	NNAT	6.290326328	0.021079078
-0.180759272	NM_007008	RTN4	6.198759406	0.024312016
-0.18055916	XM_944061	NA	7.261878724	0.039558075
-0.180237605	XM_941980	NA	6.200523101	0.001523127
-0.180074159	NM_002873	RAD17	7.271664892	0.035282922
-0.179942351	BG576344	NA	6.352821722	0.026933456
-0.179887748	NM_017780	CHD7	6.536241179	0.035080285
-0.179553719	NM_002106	H2AFZ	12.28210474	0.027947862
-0.179385766	NM_152477	ZNF565	6.954590035	0.022471724
-0.179353938	NM_199512	CCDC80	6.200431281	0.005886374
-0.178524015	NM_024517	PHF2	8.907424093	0.015618167
-0.178438421	NM_032088	PCDHGA8	6.357924018	0.027618422
-0.178202009	NM_031899	GORASP1	8.195651763	0.038301997
-0.178091966	AK095554	NA	6.365328235	0.017993541
-0.177950337	AV750351	NA	6.191137148	0.019524234
-0.177815267	NM_144658	DOCK11	10.87845283	0.040931181
-0.177470988	XM_928639	NA	6.22990461	0.031644923
-0.177327364	NM_014879	P2RY14	6.150388247	0.011673503
-0.177327053	NM_014365	HSPB8	6.230374761	0.039691288
-0.177015335	NM_178523	ZNF616	6.485092378	0.011868108
-0.176993748	BU580973	NA	6.333838437	0.009391411
-0.1767188	NM_138346	KIAA2013	9.754305422	0.035258826

-0.176638956	AA435945	NA	5.949468974	0.010871963
-0.176264451	NM_173669	NA	6.559677957	0.017446243
-0.176034506	CN426711	Sep-11	6.282461417	0.041960808
-0.175797582	NM_014930	ZNF510	6.490493291	0.006297368
-0.175662454	NM_052924	RHPN1	6.305333566	0.033727673
-0.175538082	NM_006185	NUMA1	6.972576125	0.018106835
-0.175462437	NM_005484	PARP2	6.870974828	0.034637415
-0.175339689	NM_032010	MAP1B	6.295764497	0.044740459
-0.17531561	AK095804	NA	6.316187871	0.025785686
-0.175213055	NM_178568	RTN4RL1	6.415241411	0.030736529
-0.175170917	NM_005341	ZBTB48	8.086412728	0.017300168
-0.17489211	NM_207521	RTN4	6.324840983	0.010833551
-0.174805704	XM_937110	NA	6.28614368	0.03679308
-0.17457632	NM_152519	FLJ23861	6.374836928	0.005210158
-0.174464472	NM_007244	PRR4	6.473495918	0.025371847
-0.173039645	NM_001033053	NLRP1	6.253962121	0.036597355
-0.172398134	NM_052970	HSPA12B	6.330935394	0.040782881
-0.171941945	AW138692	NA	6.266845862	0.01622099
-0.171841536	NM_145344	NA	6.390162557	0.026892737
-0.171558211	NM_003847	PEX11A	6.525221397	0.018462703
-0.171246727	NM_000062	SERPING1	6.463363236	0.035244709
-0.171114306	XM_940724	A3GALT2	6.467057136	0.021119327
-0.1711101106	NM_017759	FLJ20309	6.257700163	0.00582363
-0.17104626	XM_927381	NA	6.182386103	0.031445934
-0.170637072	NM_032508	TMEM185A	7.481758658	0.012035639
-0.170278243	NM_178025	NA	6.35554961	0.036509876
-0.169780095	NM_004170	SLC1A1	6.13020328	0.034334096
-0.169753245	BX648964	LOC143381	6.183339628	0.029116329
-0.169729791	NM_018480	TMEM126B	9.343211462	0.022216695
-0.169589336	NM_007110	TEP1	6.474169044	0.020411096
-0.169438424	NM_031442	TMEM47	6.189116712	0.027436868
-0.169086136	NM_016657	KDELR3	6.278468705	0.002731298
-0.169033089	NM_003419	ZNF345	6.343204284	0.011563378
-0.167851544	NM_020039	ACCN2	6.282073507	0.01511813
-0.167621001	NM_015398	DKFZP564J102	6.159163451	0.00633091
-0.167505529	NM_052998	ADC	6.16108754	0.015303074
-0.167370074	AW085827	NA	6.218926141	0.042197107
-0.167048292	NM_003265	TLR3	6.273744084	0.004157452
-0.166884863	NM_152474	C19orf18	6.442348049	0.011340467
-0.166591588	DA174003	NA	6.180548848	0.019065775
-0.166147453	NM_030899	ZNF323	6.486625768	0.045176925
-0.165419371	NM_173800	FLJ90650	6.228493815	0.018123431
-0.164552557	NM_032296	FLYWCH1	6.335841562	0.016208147
-0.164220036	XM_944366	LOC375295	6.246428809	0.032739393
-0.163958008	AF150372	LOC731157	6.274906106	0.026980894
-0.163749956	XM_498648	LOC440389	6.152784597	0.011971573
-0.163715211	NM_000612	IGF2	6.193270602	0.028658062
-0.163443923	NR_002229	RPL23AP13	6.170760156	0.029886025
-0.163050347	NM_138437	GPRASP2	6.49775062	0.034635704
-0.162945388	NM_005388	PDCL	6.87792103	0.014313388
-0.16143999	NM_014039	C11orf54	7.411306361	0.02321078
-0.161139871	NM_004690	LATS1	6.30046255	0.01356002
-0.160357562	NM_018355	ZNF415	6.249016137	0.04690266
-0.159924316	BX111520	NA	6.494892366	0.027321865
-0.15921356	CB055151	NA	6.128557579	0.026155093
-0.15788441	BE540565	NA	6.41474851	0.044793641
-0.157501933	NM_020199	C5orf15	11.13572721	0.01565958
-0.156658598	NM_020062	SLC2A4RG	7.271730766	0.04792679
-0.155924028	NM_032515	BOK	6.308308206	0.038484484
-0.155683465	XM_945277	NA	6.430525994	0.048854822
-0.154831979	NM_024705	DHRS12	6.370927504	0.011563378

-0.154340375	NM_005576	LOXL1	6.237041727	0.013220261
-0.154314596	AF116707	KIAA1147	6.293150376	0.040082424
-0.154220445	NM_032918	RERG	6.041185713	0.048681762
-0.153706557	NM_014914	CENTG2	6.226906758	0.040111572
-0.153607168	BM701528	NA	6.321129779	0.036456769
-0.153477712	NM_147164	CNTFR	6.166507285	0.032896365
-0.153429919	NM_005829	AP3S2	7.642617371	0.016977457
-0.152913013	NM_024894	NOL10	6.862393388	0.013238829
-0.152425509	XM_933066	LOC643696	6.21452952	0.02451213
-0.151806228	NM_015677	SH3YL1	6.729443683	0.036509876
-0.15149949	NM_001030055	ARHGAP5	6.515867075	0.011141798
-0.151366612	NM_005031	FXYD1	6.285401587	0.049902697
-0.151353122	NM_198225	RHOBTB1	6.424907521	0.012874583
-0.150797707	NM_004263	SEMA4F	6.290813794	0.016889232
-0.150099513	NM_000854	GSTT2	6.207526237	0.023972765
-0.149024784	AI078803	NA	6.212852733	0.013952328
-0.148915982	CD237426	NA	6.202482538	0.013290118
-0.14879158	NM_005763	AASS	6.270981988	0.036486233
-0.148252765	NM_019849	SLC7A10	6.28431421	0.048762956
-0.148052663	AV650212	NA	6.720659501	0.040241923
-0.147496366	NM_133450	ANKS3	6.348529232	0.043864649
-0.14677117	NM_014961	RUFY3	6.998137043	0.017591863
-0.145688748	NM_016240	SCARA3	6.093740843	0.017043516
-0.145427452	NM_033439	IL33	6.230437571	0.033194462
-0.145380924	AK125440	NA	5.967338504	0.022723769
-0.144258225	NM_003518	HIST1H2BG	6.271231707	0.03192595
-0.142361527	NM_177972	TUB	6.118494358	0.038739181
-0.141802262	XM_931697	NA	6.206703986	0.024040621
-0.141768743	XM_946003	NA	6.319459628	0.035455649
-0.141587355	NM_020813	ZNF471	6.370191256	0.034983525
-0.141376813	XM_376631	VPS37D	6.100464435	0.049510074
-0.141095686	BC015673	NA	6.028471052	0.043057044
-0.140977792	NM_017673	C1orf26	7.407331347	0.039037392
-0.140093368	AI369496	NA	6.139321793	0.027057917
-0.139560204	NM_020200	PRTFDC1	6.49352565	0.046188766
-0.137411602	BX394411	NA	6.199615944	0.034174175
-0.135877673	NM_012317	LDOC1	6.176592292	0.037305717
-0.135261014	NM_181798	KCNQ1	6.095573178	0.009860778
-0.1348312	AK124596	NSL1	6.289293647	0.047234753
-0.134471581	BX378805	NA	6.041115601	0.028090784
-0.134221075	BF105862	NA	6.202448042	0.04353413
-0.133000317	NM_003617	RGS5	6.251043106	0.016209999
-0.130864883	NM_007109	TCF19	6.472655527	0.023119982
-0.130506707	NM_016620	ZNF644	6.233212739	0.041100612
-0.129468963	NM_033495	KLHL13	6.186741792	0.027621876
-0.128545031	BE549568	NA	6.094293769	0.046808964
-0.125994196	NM_080676	MACROD2	6.134810027	0.037176397
-0.125433761	AW117275	NA	6.133749961	0.027947862
-0.124870761	AK126915	MRPL23	6.258976048	0.047944209
-0.122898738	U79293	NA	6.054042574	0.030109084
-0.122414214	DA453004	NA	6.312447467	0.015056684
-0.121124891	XM_114047	RP11-353N4.5	6.107202285	0.021918722
-0.120435163	NM_001001802	OR2A42	6.399257087	0.026598468
-0.120391354	NM_016459	MGC29506	6.237370392	0.037305368
-0.120040919	NM_021785	RAI2	6.38091004	0.047741495
-0.116419633	NM_207388	FLJ31222	6.299978734	0.016684062
-0.110077121	NM_003415	ZNF268	6.159551139	0.042197107
-0.109435268	AA157669	NA	6.209373717	0.037495129
-0.106663714	XM_943417	NA	6.136630506	0.03873358
-0.103409996	NM_013305	ST8SIA5	6.261165545	0.035635662

Supplemental Table 2. Primers used for qPCR

Gene	Forward Primer	Reverse Primer
ACTB	AGAGCTACGAGCTGCCTGAC	AGCACTGTGTTGGCGTACAG
APOE	GGTCGCTTTTGGGATTACCT	TTCCTCCAGTTCGATTTGT
COL1A2	CCTGGTAATCCTGGAGCAAA	TTACCGCTCTCTCCTTTGGA
COL6A3	TGTGGTGGAAACGAAAACAA	CACCCGGAGCTTCTACAGAG
CYTB	GCCCTCGGCTTACTTCTCTT	GACGGATCGGAGAATTGTGT
FABP4	TACTGGGCCAGGAATTTGAC	GTGGAAGTGACGCCTTTCAT
ITGAX	GCTGAAGGCACACTGTGAAA	AGGGAGGCCGTGAAGTATCT
LEP	TGTCTTGTCCCCTCTTGACC	CGTGTGTGGATGTGGTCTTC