

**Supplementary Table I.** Identification of known mRNAs that are differentially displayed in SLE patients using RNA-sequencing

Gene ID	Symbol	Means- HC (FPKM)	Means- SLE (FPKM)	Fold change	Up/Down	Probability
100529261	CHURC1-FNTB	0.000	106.600	8.457	Up	< 0.001
219539	YPEL4	0.000	13.000	5.170	Up	< 0.001
56893	UBQLN4	0.000	11.000	4.929	Up	< 0.001
100873985	MED14OS	0.000	11.000	4.929	Up	< 0.001
10519	CIB1	0.000	10.000	4.791	Up	< 0.001
152405	C3orf30	0.000	10.000	4.791	Up	< 0.001
100529063	BCL2L2- PABPN1	0.000	9.650	4.740	Up	0.001
5934	RBL2	0.000	9.170	4.666	Up	0.001
4070	TACSTD2	1.000	16.000	4.469	Up	< 0.001
23208	SYT11	0.000	8.000	4.469	Up	0.002
10791	VAMP5	0.000	7.000	4.277	Up	0.004
54900	LAX1	0.000	6.790	4.233	Up	0.005
101059918	GOLGA8R	0.000	6.740	4.222	Up	0.005
100529241	HSPE1-MOB4	0.000	6.710	4.216	Up	0.005
440804	RIMBP3B	0.000	6.000	4.054	Up	0.008
151516	ASPRV1	0.000	6.000	4.054	Up	0.008
474381	H2AFB2	0.000	6.000	4.054	Up	0.008
105216723	ADCK3	0.000	6.000	4.054	Up	0.008
445372	TRIM6-TRIM34	0.000	5.240	3.859	Up	0.015
114803	MYSM1	2.160	21.880	3.810	Up	< 0.001
113540	CMTM1	0.000	5.000	3.791	Up	0.019
84455	EFCAB7	0.000	5.000	3.791	Up	0.019
23219	FBXO28	0.000	5.000	3.791	Up	0.019
10257	ABCC4	0.000	5.000	3.791	Up	0.019
55536	CDCA7L	0.000	5.000	3.791	Up	0.019
3664	IRF6	0.000	5.000	3.791	Up	0.019
342035	GLDN	0.000	5.000	3.791	Up	0.019
2034	EPAS1	0.000	5.000	3.791	Up	0.019
387911	C1QTNF9B	0.000	5.000	3.791	Up	0.019
2740	GLP1R	1.000	9.000	3.639	Up	0.002
4600	MX2	2.000	17.000	3.557	Up	< 0.001
422400	KIAA0922	2.000	15.000	3.376	Up	< 0.001
7568	ZNF20	1.000	7.000	3.277	Up	0.009
9282	MED14	1.000	7.000	3.277	Up	0.009
130535	KCTD18	1.000	7.000	3.277	Up	0.009
80025	PANK2	1.000	6.980	3.273	Up	0.009
23367	LARP1	2.000	13.000	3.170	Up	< 0.001
7019	TFAM	1.000	6.220	3.106	Up	0.016
8549	LGR5	1.000	6.000	3.054	Up	0.018
57048	PLSCR3	1.000	6.000	3.054	Up	0.018
4259	MGST3	1.000	6.000	3.054	Up	0.018
51311	TLR8	1.000	6.000	3.054	Up	0.018
341350	OVCH1	1.000	6.000	3.054	Up	0.018
22818	COPZ1	4.000	22.000	2.929	Up	< 0.001
84941	HSH2D	1.000	5.070	2.811	Up	0.037
79689	STEAP4	1.000	5.020	2.797	Up	0.039
100526739	APITD1-CORT	1.420	7.000	2.771	Up	0.015
222659	PXT1	4.000	18.000	2.639	Up	< 0.001
9013	TAF1C	2.000	9.000	2.639	Up	0.007
83549	UCK1	2.000	9.000	2.639	Up	0.007
9748	SLK	2.000	9.000	2.639	Up	0.007

285313	IGSF10	2.000	9.000	2.639	Up	0.007
340654	LIPM	6.000	26.000	2.585	Up	< 0.001
146434	ZNF597	2.000	8.000	2.469	Up	0.015
29915	HCFC2	2.310	9.000	2.431	Up	0.01
84561	SLC12A8	2.010	7.720	2.411	Up	0.018
6004	RGS16	5.000	19.000	2.395	Up	< 0.001
2210	FCGR1B	25.330	95.350	2.382	Up	< 0.001
29953	TRHDE	3.000	11.000	2.344	Up	0.006
126868	MAB2IL3	2.500	9.130	2.338	Up	0.012
29909	GPR171	4.000	14.000	2.277	Up	0.002
1284	COL4A2	2.000	7.000	2.277	Up	0.03
427	ASAH1	2.000	7.000	2.277	Up	0.03
9044	BTA1F1	2.000	7.000	2.277	Up	0.03
8539	API5	2.000	7.000	2.277	Up	0.03
7809	BSND	2.000	7.000	2.277	Up	0.03
2535	FZD2	2.020	7.020	2.266	Up	0.03
3691	ITGB4	7.000	24.000	2.247	Up	< 0.001
7403	KDM6A	3.000	10.000	2.206	Up	0.011
7113	TMPRSS2	3.000	10.000	2.206	Up	0.011
197322	ACSF3	3.000	10.000	2.206	Up	0.011
129607	CMPK2	7.000	23.000	2.186	Up	< 0.001
51163	DBR1	2.140	6.920	2.163	Up	0.036
11137	PWP1	3.000	9.040	2.061	Up	0.02
1106	CHD2	4.000	12.000	2.054	Up	0.008
23034	SAMD4A	4.000	12.000	2.054	Up	0.008
647286	RD3L	3.000	9.000	2.054	Up	0.021
8729	GBF1	3.000	9.000	2.054	Up	0.021
81631	MAP1LC3B	31.000	0.000	-5.485	Down	< 0.001
5511	PPP1R8	27.000	0.000	-5.286	Down	< 0.001
51715	RAB23	26.430	0.000	-5.255	Down	< 0.001
396	ARHGDI1	52.010	1.000	-5.231	Down	< 0.001
80755	AARSD1	26.000	0.000	-5.231	Down	< 0.001
10156	RASA4	25.580	0.000	-5.208	Down	< 0.001
6602	SMARCD1	25.000	0.000	-5.174	Down	< 0.001
26017	FAM32A	23.000	0.000	-5.054	Down	< 0.001
353322	ANKRD37	22.410	0.000	-5.017	Down	< 0.001
401152	C4orf3	22.000	0.000	-4.990	Down	< 0.001
25849	PARM1	20.210	0.000	-4.868	Down	< 0.001
29083	GTPBP8	20.000	0.000	-4.853	Down	< 0.001
9537	TP53I11	20.000	0.000	-4.853	Down	< 0.001
55734	ZFP64	16.000	0.000	-4.853	Down	< 0.001
25837	RAB26	19.130	0.000	-4.788	Down	< 0.001
9022	CLIC3	19.000	0.000	-4.779	Down	< 0.001
80014	WWC2	18.000	0.000	-4.701	Down	< 0.001
26009	ZZZ3	17.340	0.000	-4.647	Down	< 0.001
56246	MRAP	17.000	0.000	-4.618	Down	< 0.001
391356	PTRHD1	17.000	0.000	-4.618	Down	< 0.001
84309	NUDT16L1	17.000	0.000	-4.618	Down	< 0.001
83444	INO80B	17.000	0.000	-4.618	Down	< 0.001
6191	RPS4X	17.000	0.000	-4.618	Down	< 0.001
6988	TCTA	16.850	0.000	-4.605	Down	< 0.001
79080	CCDC86	65.000	2.000	-4.553	Down	< 0.001
57092	PCNP	16.160	0.000	-4.545	Down	< 0.001
84620	ST6GAL2	14.160	0.000	-4.539	Down	< 0.001
59084	ENPP5	16.000	0.000	-4.531	Down	< 0.001
57699	CPNE5	16.000	0.000	-4.531	Down	< 0.001
57659	ZBTB4	16.000	0.000	-4.531	Down	< 0.001
91582	RPS19BP1	16.000	0.000	-4.531	Down	< 0.001

319101	KRT73	16.000	0.000	-4.531	Down	< 0.001
6581	SLC22A3	16.000	0.000	-4.531	Down	< 0.001
90410	IFT20	16.000	0.000	-4.531	Down	< 0.001
1107	CHD3	15.820	0.000	-4.514	Down	< 0.001
53354	PANK1	6.960	0.000	-4.514	Down	0.013
29888	STRN4	15.570	0.000	-4.491	Down	< 0.001
84292	WDR83	31.000	1.000	-4.485	Down	< 0.001
6505	SLC1A1	15.000	0.000	-4.438	Down	< 0.001
132660	LIN54	14.480	0.000	-4.387	Down	< 0.001
100288520	USP17L15	39.870	1.390	-4.373	Down	< 0.001
5604	MAP2K1	14.180	0.000	-4.356	Down	< 0.001
28964	GIT1	28.000	1.000	-4.338	Down	< 0.001
7767	ZNF224	14.000	0.000	-4.338	Down	< 0.001
79925	SPEF2	14.000	0.000	-4.338	Down	< 0.001
5920	RARRES3	14.000	0.000	-4.338	Down	< 0.001
22875	ENPP4	14.000	0.000	-4.338	Down	< 0.001
2975	GTF3C1	14.000	0.000	-4.338	Down	< 0.001
8263	F8A1	13.970	0.000	-4.335	Down	0.001
153478	PLEKHG4B	13.810	0.000	-4.318	Down	0.001
441294	CTAGE15	13.470	0.000	-4.282	Down	0.001
5875	RABGGTA	13.320	0.000	-4.266	Down	0.001
8038	ADAM12	13.040	0.000	-4.236	Down	0.001
10450	PPIE	13.000	0.000	-4.231	Down	0.001
446632	LECT1	13.000	0.000	-4.231	Down	0.001
1594	CYP27B1	13.000	0.000	-4.231	Down	0.001
3745	KCNB1	13.000	0.000	-4.231	Down	0.001
254158	CXorf58	13.000	0.000	-4.231	Down	0.001
56203	LMOD3	13.000	0.000	-4.231	Down	0.001
55171	TBCCD1	12.860	0.000	-4.215	Down	0.001
4709	NDUFB3	12.670	0.000	-4.194	Down	0.001
892	CCNC	12.560	0.000	-4.181	Down	0.001
57820	CCNB1IP1	12.510	0.000	-4.176	Down	0.001
84891	ZSCAN10	25.000	1.000	-4.174	Down	< 0.001
51224	TCEB3B	12.100	0.000	-4.128	Down	0.001
118460	EXOSC6	11.100	0.000	-4.123	Down	0.002
83881	MIXL1	12.030	0.000	-4.119	Down	0.001
115701	ALPK2	12.000	0.000	-4.116	Down	0.001
654254	ZNF732	12.000	0.000	-4.116	Down	0.001
55638	SYBU	12.000	0.000	-4.116	Down	0.001
284069	FAM171A2	12.000	0.000	-4.116	Down	0.001
64320	RNF25	12.000	0.000	-4.116	Down	0.001
83640	FAM103A1	11.950	0.000	-4.110	Down	0.002
85376	RIMBP3	23.820	1.000	-4.105	Down	< 0.001
5542	PRB1	11.600	0.000	-4.067	Down	0.002
51143	DYNC1LI1	23.000	1.000	-4.054	Down	< 0.001
3698	ITIH2	11.430	0.000	-4.045	Down	0.002
10886	NPFFR2	11.200	0.000	-4.016	Down	0.002
6997	TDGF1	11.020	0.000	-3.993	Down	0.003
50615	IL21R	11.000	0.000	-3.990	Down	0.003
79602	ADIPOR2	11.000	0.000	-3.990	Down	0.003
26012	NSMF	11.000	0.000	-3.990	Down	0.003
127002	ATXN7L2	11.000	0.000	-3.990	Down	0.003
259217	HSPA12A	11.000	0.000	-3.990	Down	0.003
400793	C1orf226	11.000	0.000	-3.990	Down	0.003
6837	MED22	11.000	0.000	-3.990	Down	0.003
920	CD4	11.000	0.000	-3.990	Down	0.003
10782	ZNF274	11.000	0.000	-3.990	Down	0.003
2063	NR2F6	11.000	0.000	-3.990	Down	0.003

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79038	ZFYVE21	11.000	0.000	-3.990	Down	0.003
64170	CARD9	11.000	0.000	-3.990	Down	0.003
5290	PIK3CA	11.000	0.000	-3.990	Down	0.003
1297	COL9A1	11.000	0.000	-3.990	Down	0.003
8603	FAM193A	10.930	0.000	-3.981	Down	0.003
83856	FSD1L	21.000	1.000	-3.923	Down	< 0.001
286046	XKR6	21.000	1.000	-3.923	Down	< 0.001
6778	STAT6	20.900	1.000	-3.916	Down	< 0.001
4248	MGAT3	20.000	1.000	-3.853	Down	< 0.001
54623	PAF1	20.000	1.000	-3.853	Down	< 0.001
78999	LRFN4	20.000	1.000	-3.853	Down	< 0.001
342979	PALM3	20.000	1.000	-3.853	Down	< 0.001
112574	SNX18	20.000	1.000	-3.853	Down	< 0.001
11123	RCAN3	20.000	1.000	-3.853	Down	< 0.001
7097	TLR2	20.000	1.000	-3.853	Down	< 0.001
23232	TBC1D12	10.000	0.000	-3.853	Down	0.004
8693	GALNT4	10.000	0.000	-3.853	Down	0.004
23246	BOP1	10.000	0.000	-3.853	Down	0.004
252884	ZNF396	10.000	0.000	-3.853	Down	0.004
9737	GPRASP1	10.000	0.000	-3.853	Down	0.004
147040	KCTD11	10.000	0.000	-3.853	Down	0.004
161882	ZFPM1	10.000	0.000	-3.853	Down	0.004
79001	VKORC1	10.000	0.000	-3.853	Down	0.004
377	ARF3	10.000	0.000	-3.853	Down	0.004
6448	SGSH	10.000	0.000	-3.853	Down	0.004
24145	PANX1	10.000	0.000	-3.853	Down	0.004
9856	KIAA0319	10.000	0.000	-3.853	Down	0.004
10537	UBD	10.000	0.000	-3.853	Down	0.004
27306	HPGDS	10.000	0.000	-3.853	Down	0.004
64919	BCL11B	10.000	0.000	-3.853	Down	0.004
728642	CDK11A	9.910	0.000	-3.840	Down	0.005
284618	RUSC1-AS1	9.900	0.000	-3.838	Down	0.005
55623	THUMPD1	77.000	4.000	-3.797	Down	< 0.001
51734	MSRB1	9.590	0.000	-3.792	Down	0.006
9855	FARP2	19.000	1.000	-3.779	Down	< 0.001
124842	TMEM132E	19.000	1.000	-3.779	Down	< 0.001
100533105	C8orf44-SGK3	9.380	0.000	-3.760	Down	0.006
57551	TAOK1	37.160	2.020	-3.732	Down	< 0.001
79443	FYCO1	9.060	0.000	-3.710	Down	0.008
6016	RIT1	18.000	1.000	-3.701	Down	< 0.001
10124	ARL4A	18.000	1.000	-3.701	Down	< 0.001
6894	TARBP1	18.000	1.000	-3.701	Down	< 0.001
643155	SMIM15	9.000	0.000	-3.701	Down	0.008
6899	TBX1	9.000	0.000	-3.701	Down	0.008
7008	TEF	9.000	0.000	-3.701	Down	0.008
9989	PPP4R1	9.000	0.000	-3.701	Down	0.008
23189	KANK1	9.000	0.000	-3.701	Down	0.008
7316	UBC	9.000	0.000	-3.701	Down	0.008
54780	NSMCE4A	9.000	0.000	-3.701	Down	0.008
1305	COL13A1	9.000	0.000	-3.701	Down	0.008
84243	ZDHHC18	9.000	0.000	-3.701	Down	0.008
8554	PIAS1	9.000	0.000	-3.701	Down	0.008
133383	SETD9	9.000	0.000	-3.701	Down	0.008
51081	MRPS7	9.000	0.000	-3.701	Down	0.008
100132074	FOXO6	9.000	0.000	-3.701	Down	0.008
2976	GTF3C2	9.000	0.000	-3.701	Down	0.008
256691	MAMDC2	9.000	0.000	-3.701	Down	0.008
9048	ARTN	9.000	0.000	-3.701	Down	0.008

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200879	LIPH	9.000	0.000	-3.701	Down	0.008
78994	PRR14	9.000	0.000	-3.701	Down	0.008
3384	ICAM2	9.000	0.000	-3.701	Down	0.008
54921	CHTF8	9.000	0.000	-3.701	Down	0.008
28227	PPP2R3B	9.000	0.000	-3.701	Down	0.008
90625	ERVH48-1	8.740	0.000	-3.658	Down	0.009
8522	GAS7	8.660	0.000	-3.645	Down	0.009
5256	PHKA2	8.590	0.000	-3.633	Down	0.01
83787	ARMC10	8.550	0.000	-3.627	Down	0.01
79039	DDX54	8.530	0.000	-3.623	Down	0.01
9770	RASSF2	17.010	1.000	-3.619	Down	< 0.001
388536	ZNF790	34.000	2.000	-3.618	Down	< 0.001
92092	ZC3HAV1L	17.000	1.000	-3.618	Down	< 0.001
55201	MAP1S	17.000	1.000	-3.618	Down	< 0.001
388564	TMEM238	17.000	1.000	-3.618	Down	< 0.001
114907	FBXO32	8.500	0.000	-3.618	Down	0.01
107049993	GLTSCR2	8.320	0.000	-3.587	Down	0.011
339366	ADAMTSL5	8.270	0.000	-3.579	Down	0.012
11335	CBX3	16.520	1.000	-3.577	Down	< 0.001
162073	ITPRIPL2	8.230	0.000	-3.572	Down	0.012
84263	HSDL2	8.220	0.000	-3.570	Down	0.012
83695	RHNO1	8.170	0.000	-3.561	Down	0.013
2327	FMO2	8.040	0.000	-3.538	Down	0.013
6349	CCL3L1	22.670	1.410	-3.538	Down	< 0.001
3163	HMOX2	48.000	3.000	-3.531	Down	< 0.001
353376	TICAM2	16.000	1.000	-3.531	Down	< 0.001
26128	KIF1BP	8.000	0.000	-3.531	Down	0.014
7184	HSP90B1	8.000	0.000	-3.531	Down	0.014
8838	WISP3	8.000	0.000	-3.531	Down	0.014
292	SLC25A5	8.000	0.000	-3.531	Down	0.014
442361	OR2A2	8.000	0.000	-3.531	Down	0.014
118672	PSTK	8.000	0.000	-3.531	Down	0.014
729747	ZNF878	8.000	0.000	-3.531	Down	0.014
7109	TRAPPC10	8.000	0.000	-3.531	Down	0.014
4343	MOV10	8.000	0.000	-3.531	Down	0.014
27243	CHMP2A	8.000	0.000	-3.531	Down	0.014
1022	CDK7	8.000	0.000	-3.531	Down	0.014
152573	SHISA3	8.000	0.000	-3.531	Down	0.014
6097	RORC	8.000	0.000	-3.531	Down	0.014
6155	RPL27	8.000	0.000	-3.531	Down	0.014
10174	SORBS3	8.000	0.000	-3.531	Down	0.014
727830	SPATA31A3	8.000	0.000	-3.531	Down	0.014
257218	SHPRH	8.000	0.000	-3.531	Down	0.014
392307	FAM221B	8.000	0.000	-3.531	Down	0.014
84514	GHDC	8.000	0.000	-3.531	Down	0.014
4800	NFYA	8.000	0.000	-3.531	Down	0.014
57683	ZDBF2	8.000	0.000	-3.531	Down	0.014
27327	TNRC6A	8.000	0.000	-3.531	Down	0.014
100526783	C15orf38-AP3S2	7.920	0.000	-3.516	Down	0.014
7016	TESK1	7.860	0.000	-3.505	Down	0.015
285025	CCDC141	31.010	2.000	-3.485	Down	< 0.001
23637	RABGAP1	31.000	2.000	-3.485	Down	< 0.001
6625	SNRNP70	7.720	0.000	-3.479	Down	0.016
9289	ADGRG1	7.710	0.000	-3.477	Down	0.016
56911	MAP3K7CL	7.690	0.000	-3.474	Down	0.016
9563	H6PD	17.550	1.160	-3.450	Down	< 0.001
157638	FAM84B	15.170	1.010	-3.439	Down	0.001
196541	METTL21C	30.000	2.000	-3.438	Down	< 0.001

166614	DCLK2	15.000	1.000	-3.438	Down	0.001
79736	TEFM	15.000	1.000	-3.438	Down	0.001
10621	POLR3F	15.000	1.000	-3.438	Down	0.001
29979	UBQLN1	15.000	1.000	-3.438	Down	0.001
201232	SLC16A13	15.000	1.000	-3.438	Down	0.001
5624	PROC	15.000	1.000	-3.438	Down	0.001
51043	ZBTB7B	15.000	1.000	-3.438	Down	0.001
26118	WSB1	7.500	0.000	-3.438	Down	0.018
6817	SULT1A1	7.460	0.000	-3.430	Down	0.019
57862	ZNF410	7.350	0.000	-3.408	Down	0.02
55690	PACS1	7.330	0.000	-3.404	Down	0.02
392188	USP17L8	7.320	0.000	-3.402	Down	0.02
977	CD151	73.000	5.000	-3.399	Down	< 0.001
84447	SYVN1	7.260	0.000	-3.391	Down	0.021
57097	PARP11	7.250	0.000	-3.389	Down	0.021
51667	NUB1	7.210	0.000	-3.381	Down	0.022
9518	GDF15	127.000	8.850	-3.374	Down	< 0.001
728	C5AR1	14.340	1.000	-3.373	Down	0.001
493829	TRIM72	7.040	0.000	-3.346	Down	0.024
57562	CEP126	7.030	0.000	-3.344	Down	0.024
6199	RPS6KB2	19.380	1.380	-3.342	Down	< 0.001
137695	TMEM68	7.010	0.000	-3.340	Down	0.024
4515	MTCP1	14.000	1.000	-3.338	Down	0.001
126695	KDF1	14.000	1.000	-3.338	Down	0.001
286262	TPRN	14.000	1.000	-3.338	Down	0.001
283232	TMEM80	14.000	1.000	-3.338	Down	0.001
64795	RMND5A	14.000	1.000	-3.338	Down	0.001
9871	SEC24D	14.000	1.000	-3.338	Down	0.001
5639	PRRG2	14.000	1.000	-3.338	Down	0.001
3972	LHB	7.000	0.000	-3.338	Down	0.024
84985	FAM83A	7.000	0.000	-3.338	Down	0.024
10111	RAD50	7.000	0.000	-3.338	Down	0.024
197342	EME2	7.000	0.000	-3.338	Down	0.024
23386	NUDCD3	7.000	0.000	-3.338	Down	0.024
51291	GMIP	7.000	0.000	-3.338	Down	0.024
60490	PPCDC	7.000	0.000	-3.338	Down	0.024
7791	ZYX	7.000	0.000	-3.338	Down	0.024
25802	LMOD1	7.000	0.000	-3.338	Down	0.024
23379	ICE1	7.000	0.000	-3.338	Down	0.024
60526	LDAH	7.000	0.000	-3.338	Down	0.024
283897	C16orf54	7.000	0.000	-3.338	Down	0.024
2902	GRIN1	7.000	0.000	-3.338	Down	0.024
145814	PGPEP1L	7.000	0.000	-3.338	Down	0.024
10025	MED16	7.000	0.000	-3.338	Down	0.024
255394	TCP11L2	7.000	0.000	-3.338	Down	0.024
481	ATP1B1	7.000	0.000	-3.338	Down	0.024
222487	ADGRG3	7.000	0.000	-3.338	Down	0.024
79587	CARS2	7.000	0.000	-3.338	Down	0.024
81576	CCDC130	7.000	0.000	-3.338	Down	0.024
84305	PYM1	7.000	0.000	-3.338	Down	0.024
55768	NGLY1	7.000	0.000	-3.338	Down	0.024
83888	FGFBP2	7.000	0.000	-3.338	Down	0.024
83983	TSSK6	7.000	0.000	-3.338	Down	0.024
8480	RAE1	7.000	0.000	-3.338	Down	0.024
201475	RAB12	7.000	0.000	-3.338	Down	0.024
5837	PYGM	7.000	0.000	-3.338	Down	0.024
260429	PRSS33	7.000	0.000	-3.338	Down	0.024
808	CALM3	7.000	0.000	-3.338	Down	0.024

80772	CPTP	7.000	0.000	-3.338	Down	0.024
196335	OR56B4	7.000	0.000	-3.338	Down	0.024
23500	DAAM2	7.000	0.000	-3.338	Down	0.024
54974	THG1L	7.000	0.000	-3.338	Down	0.024
401124	DTHD1	7.000	0.000	-3.338	Down	0.024
64600	PLA2G2F	7.000	0.000	-3.338	Down	0.024
80853	KDM7A	7.000	0.000	-3.338	Down	0.024
55095	SAMD4B	7.000	0.000	-3.338	Down	0.024
6512	SLC1A7	7.000	0.000	-3.338	Down	0.024
5427	POLE2	7.000	0.000	-3.338	Down	0.024
27314	RAB30	6.980	0.000	-3.334	Down	0.025
387104	SOGA3	6.940	0.000	-3.326	Down	0.025
627	BDNF	55.000	4.000	-3.312	Down	< 0.001
55573	CDV3	6.870	0.000	-3.311	Down	0.026
5122	PCSK1	13.670	1.000	-3.304	Down	0.002
113263	GLCCI1	6.790	0.000	-3.294	Down	0.027
7268	TTC4	53.000	4.000	-3.259	Down	< 0.001
1515	CTSV	6.580	0.000	-3.249	Down	0.031
100529240	ZNF816- ZNF321P	6.580	0.000	-3.249	Down	0.031
25799	ZNF324	131.000	10.000	-3.242	Down	< 0.001
643854	CTAGE9	6.550	0.000	-3.242	Down	0.031
389668	XKR9	31.910	2.440	-3.240	Down	< 0.001
7779	SLC30A1	13.040	1.000	-3.236	Down	0.002
79924	ADM2	6.510	0.000	-3.233	Down	0.032
55108	BSDC1	13.010	1.000	-3.232	Down	0.002
26576	SRPK3	26.000	2.000	-3.231	Down	< 0.001
166752	FREM3	13.000	1.000	-3.231	Down	0.002
7538	ZFP36	13.000	1.000	-3.231	Down	0.002
9380	GRHPR	13.000	1.000	-3.231	Down	0.002
7730	ZNF177	76.950	6.000	-3.212	Down	< 0.001
56925	LXN	6.410	0.000	-3.211	Down	0.034
10720	UGT2B11	140.000	11.000	-3.200	Down	< 0.001
26503	SLC17A5	6.310	0.000	-3.188	Down	0.036
80149	ZC3H12A	63.000	5.000	-3.186	Down	< 0.001
84132	USP42	6.300	0.000	-3.186	Down	0.036
6433	SFSWAP	6.270	0.000	-3.179	Down	0.037
84532	ACSS1	6.260	0.000	-3.177	Down	0.037
220042	DDIAS	25.000	2.000	-3.174	Down	< 0.001
7225	TRPC6	6.220	0.000	-3.168	Down	0.038
3696	ITGB8	25.000	2.010	-3.167	Down	< 0.001
83692	CD99L2	64.920	5.220	-3.167	Down	< 0.001
222584	FAM83B	12.350	1.000	-3.157	Down	0.004
9625	AATK	12.110	1.000	-3.129	Down	0.004
729873	TBC1D3	12.080	1.000	-3.125	Down	0.004
51021	MRPS16	24.000	2.000	-3.116	Down	< 0.001
150590	C2orf15	24.000	2.000	-3.116	Down	< 0.001
221294	NT5DC1	12.000	1.000	-3.116	Down	0.004
10605	PAIP1	12.000	1.000	-3.116	Down	0.004
26030	PLEKHG3	12.000	1.000	-3.116	Down	0.004
770	CA11	12.000	1.000	-3.116	Down	0.004
390748	PABPN1L	12.000	1.000	-3.116	Down	0.004
7392	USF2	12.000	1.000	-3.116	Down	0.004
92912	UBE2Q2	12.000	1.000	-3.116	Down	0.004
200894	ARL13B	12.000	1.000	-3.116	Down	0.004
170690	ADAMTS16	12.000	1.000	-3.116	Down	0.004
572	BAD	12.000	1.000	-3.116	Down	0.004
28316	CDH20	12.000	1.000	-3.116	Down	0.004

8545	CGGBP1	12.000	1.000	-3.116	Down	0.004
163227	ZNF100	10.100	0.000	-3.101	Down	0.009
144108	SPTY2D1	23.690	2.000	-3.097	Down	< 0.001
56904	SH3GLB2	11.800	1.000	-3.091	Down	0.005
389434	IYD	10.410	0.000	-3.063	Down	0.008
2523	FUT1	34.400	2.980	-3.060	Down	< 0.001
1285	COL4A3	11.290	1.000	-3.028	Down	0.006
594	BCKDHB	10.210	0.000	-3.019	Down	0.009
2969	GTF2I	23.940	2.150	-3.008	Down	< 0.001
8553	BHLHE40	12.660	1.150	-2.991	Down	0.004
378	ARF4	44.000	4.000	-2.990	Down	< 0.001
148327	CREB3L4	33.000	3.000	-2.990	Down	< 0.001
340562	SATL1	22.000	2.000	-2.990	Down	< 0.001
284486	THEM5	22.000	2.000	-2.990	Down	< 0.001
54112	GPR88	22.000	2.000	-2.990	Down	< 0.001
57194	ATP10A	22.000	2.000	-2.990	Down	< 0.001
7324	UBE2E1	22.000	2.000	-2.990	Down	< 0.001
80233	FAAP100	22.000	2.000	-2.990	Down	< 0.001
7471	WNT1	22.000	2.000	-2.990	Down	< 0.001
404636	FAM45A	22.000	2.000	-2.990	Down	< 0.001
205327	C2orf69	22.000	2.000	-2.990	Down	< 0.001
81628	TSC22D4	11.000	1.000	-2.990	Down	0.007
51393	TRPV2	11.000	1.000	-2.990	Down	0.007
113451	AZIN2	11.000	1.000	-2.990	Down	0.007
41	ASIC1	11.000	1.000	-2.990	Down	0.007
57282	SLC4A10	11.000	1.000	-2.990	Down	0.007
79729	SH3D21	11.000	1.000	-2.990	Down	0.007
51631	LUC7L2	11.000	1.000	-2.990	Down	0.007
118491	CFAP70	11.000	1.000	-2.990	Down	0.007
253430	IPMK	11.000	1.000	-2.990	Down	0.007
11099	PTPN21	11.000	1.000	-2.990	Down	0.007
3669	ISG20	11.000	1.000	-2.990	Down	0.007
54829	ASPN	11.000	1.000	-2.990	Down	0.007
2913	GRM3	11.000	1.000	-2.990	Down	0.007
84524	ZC3H8	11.000	1.000	-2.990	Down	0.007
55902	ACSS2	11.000	1.000	-2.990	Down	0.007
56751	BARHL1	11.000	1.000	-2.990	Down	0.007
4741	NEFM	11.000	1.000	-2.990	Down	0.007
140901	STK35	11.000	1.000	-2.990	Down	0.007
26261	FBXO24	11.000	1.000	-2.990	Down	0.007
1660	DHX9	11.000	1.000	-2.990	Down	0.007
23354	HAUS5	10.440	0.000	-2.989	Down	0.009
57198	ATP8B2	10.860	1.000	-2.972	Down	0.008
55083	KIF26B	42.000	4.000	-2.923	Down	< 0.001
100463482	MTRNR2L6	21.000	2.000	-2.923	Down	< 0.001
56655	POLE4	21.000	2.000	-2.923	Down	< 0.001
10365	KLF2	21.000	2.000	-2.923	Down	< 0.001
66000	TMEM108	21.000	2.000	-2.923	Down	< 0.001
5861	RAB1A	21.000	2.000	-2.923	Down	< 0.001
5988	RFPL1	20.690	2.000	-2.902	Down	< 0.001
4146	MATN1	62.000	6.000	-2.900	Down	< 0.001
23408	SIRT5	43.040	4.170	-2.898	Down	< 0.001
55340	GIMAP5	10.070	1.000	-2.863	Down	0.012
1506	CTRL	40.000	4.000	-2.853	Down	< 0.001
401250	MCCD1	30.000	3.000	-2.853	Down	< 0.001
23248	RPRD2	30.000	3.000	-2.853	Down	< 0.001
414328	IDNK	30.000	3.000	-2.853	Down	< 0.001
51196	PLCE1	20.000	2.000	-2.853	Down	< 0.001



10797	MTHFD2	20.000	2.000	-2.853	Down	< 0.001
92154	MTSS1L	10.000	1.000	-2.853	Down	0.012
83860	TAF3	10.000	1.000	-2.853	Down	0.012
8736	MYOM1	10.000	1.000	-2.853	Down	0.012
51763	INPP5K	10.000	1.000	-2.853	Down	0.012
1998	ELF2	10.000	1.000	-2.853	Down	0.012
57711	ZNF529	10.000	1.000	-2.853	Down	0.012
2560	GABRB1	10.000	1.000	-2.853	Down	0.012
55299	BRX1	10.000	1.000	-2.853	Down	0.012
92359	CRB3	10.000	1.000	-2.853	Down	0.012
2923	PDIA3	9.840	1.000	-2.829	Down	0.013
1499	CTNNB1	53.840	5.480	-2.827	Down	< 0.001
7283	TUBG1	19.450	2.000	-2.812	Down	0.001
7189	TRAF6	53.540	5.520	-2.809	Down	< 0.001
130589	GALM	12.580	1.300	-2.805	Down	0.005
53339	BTBD1	29.000	3.000	-2.804	Down	< 0.001
55313	CPPED1	9.620	1.000	-2.797	Down	0.015
401447	USP17L1	16.820	1.760	-2.787	Down	0.001
10494	STK25	19.000	2.000	-2.779	Down	0.001
284018	C17orf58	19.000	2.000	-2.779	Down	0.001
5184	PEPD	19.000	2.000	-2.779	Down	0.001
23286	WWC1	8.600	0.000	-2.771	Down	0.022
146861	SLC35G3	47.000	5.000	-2.763	Down	< 0.001
127068	OR2T34	9.340	1.000	-2.754	Down	0.018
64080	RBKS	28.000	3.000	-2.753	Down	< 0.001
57221	ARFGEF3	18.700	2.010	-2.748	Down	0.001
58508	KMT2C	40.160	4.340	-2.741	Down	< 0.001
5155	PDGFB	74.000	8.000	-2.740	Down	< 0.001
90506	LRRC46	46.000	5.000	-2.732	Down	< 0.001
4846	NOS3	46.000	5.000	-2.732	Down	< 0.001
90488	TMEM263	27.480	3.000	-2.726	Down	< 0.001
266977	ADGRF1	9.120	1.000	-2.720	Down	0.02
3482	IGF2R	10.300	1.130	-2.719	Down	0.013
200030	NBPF11	18.800	2.070	-2.714	Down	0.001
2615	LRRC32	11.160	1.230	-2.712	Down	0.01
159013	CXorf38	24.620	2.730	-2.703	Down	< 0.001
8771	TNFRSF6B	117.000	13.000	-2.701	Down	< 0.001
25888	ZNF473	54.000	6.000	-2.701	Down	< 0.001
10552	ARPC1A	18.000	2.000	-2.701	Down	0.001
1613	DAPK3	18.000	2.000	-2.701	Down	0.001
441150	C6orf226	18.000	2.000	-2.701	Down	0.001
11186	RASSF1	9.000	1.000	-2.701	Down	0.021
28970	C11orf54	9.000	1.000	-2.701	Down	0.021
50628	GEMIN4	9.000	1.000	-2.701	Down	0.021
143941	TTC36	9.000	1.000	-2.701	Down	0.021
6536	SLC6A9	9.000	1.000	-2.701	Down	0.021
22869	ZNF510	9.000	1.000	-2.701	Down	0.021
112616	CMTM7	9.000	1.000	-2.701	Down	0.021
6722	SRF	9.000	1.000	-2.701	Down	0.021
29068	ZBTB44	9.000	1.000	-2.701	Down	0.021
11250	GPR45	9.000	1.000	-2.701	Down	0.021
10738	RFPL3	9.000	1.000	-2.701	Down	0.021
83468	GLT8D2	9.000	1.000	-2.701	Down	0.021
5023	P2RX1	9.000	1.000	-2.701	Down	0.021
6239	RREB1	9.000	1.000	-2.701	Down	0.021
1737	DLAT	9.000	1.000	-2.701	Down	0.021
26472	PPP1R14B	9.000	1.000	-2.701	Down	0.021
2547	XRCC6	9.000	1.000	-2.701	Down	0.021

57597	BAHCC1	9.000	1.000	-2.701	Down	0.021
10015	PDCD6IP	9.000	1.000	-2.701	Down	0.021
51399	TRAPPC4	9.000	1.000	-2.701	Down	0.021
6141	RPL18	9.000	1.000	-2.701	Down	0.021
27134	TJP3	9.000	1.000	-2.701	Down	0.021
4482	MSRA	9.000	1.000	-2.701	Down	0.021
55118	CRTAC1	9.000	1.000	-2.701	Down	0.021
150946	GAREM2	26.990	3.000	-2.700	Down	< 0.001
23371	TNS2	51.390	5.750	-2.690	Down	< 0.001
972	CD74	15.280	1.710	-2.690	Down	0.003
54676	GTPBP2	8.910	1.000	-2.686	Down	0.022
221400	TDRD6	80.000	9.000	-2.683	Down	< 0.001
51067	YARS2	26.470	3.000	-2.672	Down	< 0.001
170691	ADAMTS17	8.790	1.000	-2.667	Down	0.023
1576	CYP3A4	17.540	2.000	-2.663	Down	0.001
9578	CDC42BPB	35.000	4.000	-2.660	Down	< 0.001
51479	ANKFY1	61.000	7.000	-2.654	Down	< 0.001
55701	ARHGEF40	26.000	3.000	-2.646	Down	< 0.001
9669	EIF5B	26.000	3.000	-2.646	Down	< 0.001
3419	IDH3A	26.000	3.000	-2.646	Down	< 0.001
353088	ZNF429	8.650	1.000	-2.643	Down	0.025
4134	MAP4	43.000	5.000	-2.635	Down	< 0.001
51263	MRPL30	8.590	1.000	-2.633	Down	0.026
6764	ST5	34.000	4.000	-2.618	Down	< 0.001
126393	HSPB6	17.000	2.000	-2.618	Down	0.002
55630	SLC39A4	17.000	2.000	-2.618	Down	0.002
3274	HRH2	17.000	2.000	-2.618	Down	0.002
401944	LDLRAD2	17.000	2.000	-2.618	Down	0.002
160364	CLEC12A	17.000	2.000	-2.618	Down	0.002
8835	SOCS2	17.000	2.000	-2.618	Down	0.002
6196	RPS6KA2	151.000	18.000	-2.599	Down	< 0.001
54587	MXRA8	150.680	18.040	-2.593	Down	< 0.001
84988	PPP1R16A	8.350	1.000	-2.592	Down	0.03
340205	TREML1	25.000	3.000	-2.590	Down	< 0.001
6331	SCN5A	25.000	3.000	-2.590	Down	< 0.001
5586	PKN2	25.000	3.000	-2.590	Down	< 0.001
140775	SMCR8	45.620	5.500	-2.583	Down	< 0.001
10072	DPP3	33.000	4.000	-2.575	Down	< 0.001
1977	EIF4E	33.000	4.000	-2.575	Down	< 0.001
9361	LONP1	74.000	9.000	-2.570	Down	< 0.001
158866	ZDHHC15	29.550	3.610	-2.564	Down	< 0.001
149013	NBPF12	16.210	2.010	-2.542	Down	0.003
80742	PRR3	48.710	6.040	-2.542	Down	< 0.001
64172	OSGEPL1	28.820	3.590	-2.536	Down	< 0.001
7844	RNF103	48.000	6.000	-2.531	Down	< 0.001
80127	BBOF1	32.000	4.000	-2.531	Down	< 0.001
10005	ACOT8	24.000	3.000	-2.531	Down	< 0.001
6504	SLAMF1	16.000	2.000	-2.531	Down	0.003
137994	LETM2	16.000	2.000	-2.531	Down	0.003
7592	ZNF41	16.000	2.000	-2.531	Down	0.003
2662	GDF10	8.000	1.000	-2.531	Down	0.036
6911	TBX6	8.000	1.000	-2.531	Down	0.036
54971	BANP	8.000	1.000	-2.531	Down	0.036
4684	NCAM1	8.000	1.000	-2.531	Down	0.036
7329	UBE2I	8.000	1.000	-2.531	Down	0.036
8445	DYRK2	8.000	1.000	-2.531	Down	0.036
60681	FKBP10	8.000	1.000	-2.531	Down	0.036
51733	UPB1	8.000	1.000	-2.531	Down	0.036

148268	ZNF570	8.000	1.000	-2.531	Down	0.036
55319	TMA16	8.000	1.000	-2.531	Down	0.036
7001	PRDX2	8.000	1.000	-2.531	Down	0.036
65999	LRRC61	8.000	1.000	-2.531	Down	0.036
1295	COL8A1	8.000	1.000	-2.531	Down	0.036
136242	PRSS37	8.000	1.000	-2.531	Down	0.036
3703	STT3A	8.000	1.000	-2.531	Down	0.036
578	BAK1	8.000	1.000	-2.531	Down	0.036
85476	GFM1	8.000	1.000	-2.531	Down	0.036
7175	TPR	8.000	1.000	-2.531	Down	0.036
5605	MAP2K2	8.000	1.000	-2.531	Down	0.036
284297	SSC5D	8.000	1.000	-2.531	Down	0.036
54584	GNB1L	8.000	1.000	-2.531	Down	0.036
4712	NDUFB6	8.000	1.000	-2.531	Down	0.036
26973	CHORDC1	8.000	1.000	-2.531	Down	0.036
157695	TDRP	8.000	1.000	-2.531	Down	0.036
29933	GPR132	8.000	1.000	-2.531	Down	0.036
8312	AXIN1	8.000	1.000	-2.531	Down	0.036
131096	KCNH8	8.000	1.000	-2.531	Down	0.036
286128	ZFP41	8.000	1.000	-2.531	Down	0.036
25994	HIGD1A	7.810	0.000	-2.525	Down	0.038
84287	ZDHHC16	15.740	2.000	-2.507	Down	0.003
79759	ZNF668	39.000	5.000	-2.494	Down	< 0.001
4094	MAF	39.000	5.000	-2.494	Down	< 0.001
285195	SLC9A9	31.000	4.000	-2.485	Down	< 0.001
100128553	CTAGE4	64.400	8.360	-2.476	Down	< 0.001
415540	VWA9	23.000	3.000	-2.469	Down	< 0.001
29099	COMMD9	23.220	3.030	-2.469	Down	< 0.001
10380	BPNT1	17.130	2.240	-2.466	Down	0.002
10438	C1D	15.280	2.000	-2.464	Down	0.004
9512	PMPCB	99.000	13.000	-2.460	Down	< 0.001
4935	GPR143	38.000	5.000	-2.457	Down	< 0.001
9600	PITPNM1	38.000	5.000	-2.457	Down	< 0.001
9976	CLEC2B	144.000	19.000	-2.453	Down	< 0.001
377630	USP17L2	57.320	7.610	-2.444	Down	< 0.001
10243	GPHN	30.000	4.000	-2.438	Down	< 0.001
11273	ATXN2L	30.000	4.000	-2.438	Down	< 0.001
2621	GAS6	15.000	2.000	-2.438	Down	0.005
86	ACTL6A	15.000	2.000	-2.438	Down	0.005
7145	TNS1	15.000	2.000	-2.438	Down	0.005
93	ACVR2B	15.000	2.000	-2.438	Down	0.005
9334	B4GALT5	15.000	2.000	-2.438	Down	0.005
159	ADSS	15.000	2.000	-2.438	Down	0.005
23113	CUL9	15.000	2.000	-2.438	Down	0.005
57223	PPP4R3B	14.980	2.000	-2.436	Down	0.005
191585	PLAC4	327.920	43.960	-2.430	Down	< 0.001
56099	PCDHGB7	12.940	1.750	-2.417	Down	0.009
729759	OR4F29	12.330	1.670	-2.415	Down	0.011
81399	OR4F16	12.330	1.670	-2.415	Down	0.011
26683	OR4F3	12.330	1.670	-2.415	Down	0.011
118924	FRA10AC1	9.150	1.240	-2.414	Down	0.029
9459	ARHGEF6	22.000	3.000	-2.405	Down	0.001
84172	POLR1B	22.000	3.000	-2.405	Down	0.001
84318	CCDC77	22.000	3.000	-2.405	Down	0.001
65123	INTS3	22.000	3.000	-2.405	Down	0.001
64777	RMND5B	32.500	4.510	-2.380	Down	< 0.001
3615	IMPDH2	79.000	11.000	-2.375	Down	< 0.001
162515	SLC16A11	43.000	6.000	-2.372	Down	< 0.001

-	9-Sep	43.000	6.000	-2.372	Down	< 0.001
142680	SLC34A3	57.000	8.000	-2.364	Down	< 0.001
143502	OR52I2	10.820	1.520	-2.362	Down	0.019
51332	SPTBN5	71.000	10.000	-2.358	Down	< 0.001
7404	UTY	14.200	2.000	-2.358	Down	0.007
125061	AFMID	18.450	2.600	-2.358	Down	0.002
468530	TCEB3CL2	37.570	5.340	-2.345	Down	< 0.001
55830	GLT8D1	49.000	7.000	-2.338	Down	< 0.001
26534	OR10G2	28.000	4.000	-2.338	Down	< 0.001
55023	PHIP	21.000	3.000	-2.338	Down	0.001
7068	THRB	21.000	3.000	-2.338	Down	0.001
92241	RCSD1	21.000	3.000	-2.338	Down	0.001
115286	SLC25A26	21.000	3.000	-2.338	Down	0.001
1152	CKB	14.000	2.000	-2.338	Down	0.008
60481	ELOVL5	14.000	2.000	-2.338	Down	0.008
57124	CD248	14.000	2.000	-2.338	Down	0.008
55699	IARS2	14.000	2.000	-2.338	Down	0.008
54492	NEURL1B	14.000	2.000	-2.338	Down	0.008
5133	PDCD1	14.000	2.000	-2.338	Down	0.008
167838	TXLNB	14.000	2.000	-2.338	Down	0.008
80344	DCAF11	14.830	2.150	-2.317	Down	0.007
55503	TRPV6	13.710	2.000	-2.308	Down	0.009
5584	PRKCI	13.630	1.990	-2.307	Down	0.009
10863	ADAM28	89.680	13.110	-2.305	Down	< 0.001
994	CDC25B	82.000	12.000	-2.303	Down	< 0.001
5740	PTGIS	13.730	2.010	-2.303	Down	0.009
2022	ENG	57.130	8.370	-2.302	Down	< 0.001
729092	AGAP5	9.190	1.350	-2.298	Down	0.033
26330	GAPDHS	34.000	5.000	-2.296	Down	< 0.001
200895	DHFRL1	27.010	4.000	-2.286	Down	< 0.001
11063	SOX30	27.000	4.000	-2.286	Down	< 0.001
51659	GINS2	27.000	4.000	-2.286	Down	< 0.001
55278	QRSL1	22.730	3.370	-2.284	Down	0.001
55361	PI4K2A	13.400	2.000	-2.275	Down	0.011
29916	SNX11	154.000	23.000	-2.274	Down	< 0.001
401427	OR2A7	32.450	4.850	-2.273	Down	< 0.001
6645	SNTB2	13.740	2.060	-2.268	Down	0.01
753	LDLRAD4	20.000	3.000	-2.268	Down	0.002
1191	CLU	20.000	3.000	-2.268	Down	0.002
115708	TRMT61A	20.000	3.000	-2.268	Down	0.002
127281	FAM213B	20.000	3.000	-2.268	Down	0.002
644150	WIPF3	20.000	3.000	-2.268	Down	0.002
112936	VPS26B	73.000	11.000	-2.261	Down	< 0.001
6490	PMEL	53.000	8.000	-2.259	Down	< 0.001
493869	GPX8	13.600	2.060	-2.254	Down	0.011
25953	PNKD	33.000	5.000	-2.253	Down	< 0.001
284071	MEIOC	33.000	5.000	-2.253	Down	< 0.001
283571	PROX2	181.130	27.740	-2.238	Down	< 0.001
26140	TTLL3	26.020	3.990	-2.236	Down	< 0.001
53981	CPSF2	31.190	4.790	-2.234	Down	< 0.001
401024	FSIP2	130.000	20.000	-2.231	Down	< 0.001
4792	NFKBIA	26.000	4.000	-2.231	Down	< 0.001
27293	SMPDL3B	13.000	2.000	-2.231	Down	0.013
57695	USP37	13.000	2.000	-2.231	Down	0.013
146853	C17orf50	13.000	2.000	-2.231	Down	0.013
5827	PXMP2	13.000	2.000	-2.231	Down	0.013
51751	HIGD1B	13.000	2.000	-2.231	Down	0.013
147923	ZNF420	13.000	2.000	-2.231	Down	0.013

149483	CCDC17	13.000	2.000	-2.231	Down	0.013
164656	TMPRSS6	13.000	2.000	-2.231	Down	0.013
254263	CNIH2	13.000	2.000	-2.231	Down	0.013
6334	SCN8A	38.450	5.970	-2.218	Down	< 0.001
6427	SRSF2	124.000	19.260	-2.217	Down	< 0.001
6657	SOX2	45.000	7.000	-2.215	Down	< 0.001
5583	PRKCH	45.000	7.000	-2.215	Down	< 0.001
124565	SLC38A10	64.000	10.000	-2.209	Down	< 0.001
4946	OAZ1	32.000	5.000	-2.209	Down	< 0.001
27077	B9D1	32.000	5.000	-2.209	Down	< 0.001
10728	PTGES3	28.530	4.480	-2.202	Down	< 0.001
11153	FICD	70.000	11.000	-2.200	Down	< 0.001
54386	TERF2IP	70.000	11.000	-2.200	Down	< 0.001
27031	NPHP3	38.110	6.000	-2.198	Down	< 0.001
8099	CDK2AP1	12.690	2.000	-2.196	Down	0.015
51168	MYO15A	19.000	3.000	-2.194	Down	0.003
5625	PRODH	19.000	3.000	-2.194	Down	0.003
10188	TNK2	19.000	3.000	-2.194	Down	0.003
55122	AKIRIN2	19.000	3.000	-2.194	Down	0.003
255027	MPV17L	12.660	2.000	-2.193	Down	0.015
51077	FCF1	23.950	3.790	-2.190	Down	0.001
326	AIRE	18.850	3.000	-2.182	Down	0.003
5936	RBM4	100.640	16.050	-2.179	Down	< 0.001
101928093	LOC101928093	22.120	3.530	-2.178	Down	0.001
3483	IGFALS	75.000	12.000	-2.174	Down	< 0.001
27037	TRMT2A	25.000	4.000	-2.174	Down	0.001
80024	SLC8B1	19.370	3.100	-2.174	Down	0.003
5787	PTPRB	46.050	7.390	-2.170	Down	< 0.001
149233	IL23R	12.470	2.010	-2.164	Down	0.017
647219	ASCL5	37.000	6.000	-2.155	Down	< 0.001
5727	PTCH1	12.320	2.000	-2.154	Down	0.018
343173	OR2T3	30.660	5.000	-2.147	Down	< 0.001
4017	LOXL2	49.000	8.000	-2.145	Down	< 0.001
91975	ZNF300	49.000	8.000	-2.145	Down	< 0.001
7694	ZNF135	61.000	10.000	-2.139	Down	< 0.001
64927	TTC23	18.250	3.000	-2.136	Down	0.004
79794	C12orf49	12.760	2.100	-2.134	Down	0.017
117143	TADA1	85.000	14.000	-2.133	Down	< 0.001
8611	PLPP1	32.900	5.450	-2.124	Down	< 0.001
150221	RIMBP3C	42.180	7.000	-2.122	Down	< 0.001
10168	ZNF197	18.050	3.000	-2.120	Down	0.005
221188	ADGRG5	54.000	9.000	-2.116	Down	< 0.001
80196	RNF34	48.000	8.000	-2.116	Down	< 0.001
26575	RGS17	36.000	6.000	-2.116	Down	< 0.001
55303	GIMAP4	36.000	6.000	-2.116	Down	< 0.001
80021	TMEM62	36.000	6.000	-2.116	Down	< 0.001
207	AKT1	36.000	6.000	-2.116	Down	< 0.001
23366	KIAA0895	24.000	4.000	-2.116	Down	0.001
23158	TBC1D9	24.000	4.000	-2.116	Down	0.001
146059	CDAN1	24.000	4.000	-2.116	Down	0.001
387707	CC2D2B	24.000	4.000	-2.116	Down	0.001
93058	COQ10A	24.000	4.000	-2.116	Down	0.001
51523	CXXC5	18.000	3.000	-2.116	Down	0.005
441631	TSPAN11	12.000	2.000	-2.116	Down	0.021
57696	DDX55	12.000	2.000	-2.116	Down	0.021
4609	MYC	12.000	2.000	-2.116	Down	0.021
54103	GSAP	12.000	2.000	-2.116	Down	0.021
10670	RRAGA	12.000	2.000	-2.116	Down	0.021

89782	LMLN	12.000	2.000	-2.116	Down	0.021
7884	SLBP	12.000	2.000	-2.116	Down	0.021
8225	GTPBP6	12.000	2.000	-2.116	Down	0.021
84634	KISS1R	12.000	2.000	-2.116	Down	0.021
401474	SAMD12	12.000	2.000	-2.116	Down	0.021
293	SLC25A6	12.000	2.000	-2.116	Down	0.021
377841	ENTPD8	12.000	2.000	-2.116	Down	0.021
1537	CYC1	11.950	2.000	-2.110	Down	0.021
79850	FAM57A	209.000	35.000	-2.109	Down	< 0.001
9465	AKAP7	89.000	15.000	-2.099	Down	< 0.001
63931	MRPS14	89.000	15.000	-2.099	Down	< 0.001
161291	TMEM30B	83.000	14.000	-2.098	Down	< 0.001
10014	HDAC5	77.000	13.000	-2.097	Down	< 0.001
93034	NT5C1B	77.000	13.000	-2.097	Down	< 0.001
5562	PRKAA1	23.980	4.050	-2.096	Down	0.001
64131	XYLT1	42.570	7.210	-2.092	Down	< 0.001
3982	LIM2	59.000	10.000	-2.091	Down	< 0.001
8884	SLC5A6	53.000	9.000	-2.089	Down	< 0.001
79812	MMRN2	47.000	8.000	-2.085	Down	< 0.001
51030	TVP23B	10.590	1.810	-2.079	Down	0.032
825	CAPN3	105.000	18.000	-2.075	Down	< 0.001
23586	DDX58	70.000	12.000	-2.075	Down	< 0.001
57348	TTYH1	35.000	6.000	-2.075	Down	< 0.001
124783	SPATA32	29.010	5.000	-2.067	Down	< 0.001
65083	NOL6	87.000	15.000	-2.067	Down	< 0.001
6895	TARBP2	29.000	5.000	-2.067	Down	< 0.001
440021	KRTAP5-2	29.000	5.000	-2.067	Down	< 0.001
124093	CCDC78	29.000	5.000	-2.067	Down	< 0.001
256949	KANK3	29.000	5.000	-2.067	Down	< 0.001
155066	ATP6V0E2	104.000	18.000	-2.061	Down	< 0.001
253639	ZNF620	40.440	7.000	-2.061	Down	< 0.001
4239	MFAP4	80.000	13.850	-2.061	Down	< 0.001
170685	NUDT10	34.570	5.990	-2.060	Down	< 0.001
7399	USH2A	23.000	4.000	-2.054	Down	0.002
5566	PRKACA	23.000	4.000	-2.054	Down	0.002
115330	GPR146	23.000	4.000	-2.054	Down	0.002
9924	PAN2	31.390	5.510	-2.041	Down	< 0.001
1822	ATN1	95.070	16.720	-2.038	Down	< 0.001
402135	OR5K2	34.000	6.000	-2.033	Down	< 0.001
26207	PITPNC1	34.000	6.000	-2.033	Down	< 0.001
2273	FHL1	17.000	3.000	-2.033	Down	0.007
84314	TMEM107	17.000	3.000	-2.033	Down	0.007
4242	MFNG	17.000	3.000	-2.033	Down	0.007
196394	AMN1	17.000	3.000	-2.033	Down	0.007
374973	TEX38	17.000	3.000	-2.033	Down	0.007
93621	MRFAP1	17.000	3.000	-2.033	Down	0.007
201595	STT3B	17.000	3.000	-2.033	Down	0.007
57606	SLAIN2	17.000	3.000	-2.033	Down	0.007
55664	CDC37L1	96.050	17.000	-2.029	Down	< 0.001
4109	MAGEA10	10.900	1.930	-2.028	Down	0.032
728047	GOLGA8O	87.120	15.460	-2.025	Down	< 0.001
9953	HS3ST3B1	42.910	7.620	-2.024	Down	< 0.001
135152	B3GAT2	90.000	16.000	-2.022	Down	< 0.001
55723	ASF1B	45.000	8.000	-2.022	Down	< 0.001
51599	LSR	92.790	16.500	-2.022	Down	< 0.001
55233	MOB1A	28.000	5.000	-2.016	Down	0.001
1951	CELSR3	28.000	5.000	-2.016	Down	0.001
119016	AGAP4	80.170	14.330	-2.015	Down	< 0.001

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54108	CHRAC1	33.400	6.000	-2.007	Down	< 0.001
23410	SIRT3	39.130	7.030	-2.007	Down	< 0.001
387733	IFITM5	50.000	9.000	-2.005	Down	< 0.001

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