

Supplementary Tables

**Supplementary Table S1. A complete list of differential expressed genes identified in meta-analysis of DCM vs NF.**

Ensembl_ID	gene_symbol	DE_1 <sup>1</sup>	DE_2 <sup>1</sup>	DE_3 <sup>1</sup>	adj_p <sup>2</sup>	average_log <sub>2</sub> FC <sup>3</sup>	effect <sup>4</sup>
ENSG00000076351	<i>SLC46A1</i>	Yes	No	No	0.00E+00	0.37	Up
ENSG00000113389	<i>NPR3</i>	Yes	Yes	Yes	0.00E+00	2.14	Up
ENSG00000126106	<i>TMEM53</i>	Yes	No	No	0.00E+00	-0.60	Down
ENSG00000176293	<i>ZNF135</i>	Yes	No	No	0.00E+00	0.37	Up
ENSG00000177575	<i>CD163</i>	No	Yes	No	0.00E+00	-1.57	Down
ENSG00000189060	<i>H1FO</i>	Yes	No	No	0.00E+00	-1.01	Down
ENSG00000227495	<i>AC004771.1</i>	Yes	No	No	0.00E+00	-0.40	Down
ENSG00000263986	<i>AC087393.2</i>	Yes	No	No	0.00E+00	0.49	Up
ENSG00000179526	<i>SHARPIN</i>	Yes	No	No	1.68E-13	-0.54	Down
ENSG00000197616	<i>MYH6</i>	Yes	No	No	1.68E-13	-1.85	Down
ENSG00000157388	<i>CACNA1D</i>	Yes	No	No	3.03E-13	-1.10	Down
ENSG00000229867	<i>STEAP3-AS1</i>	Yes	No	No	5.87E-13	-0.71	Down
ENSG00000167646	<i>DNAAF3</i>	Yes	No	No	1.28E-12	1.30	Up
ENSG00000170448	<i>NFXL1</i>	Yes	No	Yes	7.58E-12	-2.33	Down
ENSG00000186187	<i>ZNRF1</i>	Yes	No	No	2.44E-11	-0.56	Down
ENSG00000259661	<i>AC068831.4</i>	Yes	No	No	2.57E-11	-0.59	Down
ENSG00000142156	<i>COL6A1</i>	Yes	No	No	3.39E-11	-0.78	Down
ENSG00000235910	<i>APOA1-AS</i>	Yes	No	No	4.28E-11	0.90	Up
ENSG00000109099	<i>PMP22</i>	Yes	No	No	4.81E-11	-0.86	Down
ENSG00000163220	<i>S100A9</i>	Yes	Yes	No	6.09E-11	-2.13	Down
ENSG00000174437	<i>ATP2A2</i>	Yes	No	No	8.49E-11	-0.83	Down
ENSG00000175221	<i>MED16</i>	Yes	No	No	1.06E-10	-0.83	Down
ENSG00000198624	<i>CCDC69</i>	Yes	No	No	1.60E-10	-1.04	Down
ENSG00000133800	<i>LYVE1</i>	Yes	No	Yes	1.72E-10	-2.06	Down
ENSG00000267092	<i>AC027307.1</i>	Yes	No	No	1.85E-10	0.63	Up
ENSG00000129250	<i>KIF1C</i>	Yes	No	No	2.27E-10	-0.61	Down
ENSG00000256469	<i>AP002383.2</i>	Yes	No	No	2.84E-10	0.82	Up
ENSG00000233098	<i>CCDC144NL-AS1</i>	Yes	No	No	3.19E-10	0.37	Up
ENSG00000105679	<i>GAPDHS</i>	Yes	No	No	3.53E-10	0.65	Up
ENSG00000156463	<i>SH3RF2</i>	Yes	No	No	3.66E-10	-1.05	Down
ENSG00000210127	<i>MT-TA</i>	Yes	No	No	3.66E-10	-1.00	Down
ENSG00000183072	<i>NKX2-5</i>	Yes	No	No	9.88E-10	-0.96	Down
ENSG00000125733	<i>TRIP10</i>	Yes	No	No	1.08E-09	-0.88	Down
ENSG00000141905	<i>NFIC</i>	Yes	No	No	1.11E-09	-0.61	Down

ENSG00000135447	<i>PPP1R1A</i>	Yes	No	Yes	1.14E-09	-1.00	Down
ENSG00000107796	<i>ACTA2</i>	No	Yes	Yes	1.35E-09	-1.38	Down
ENSG00000140675	<i>SLC5A2</i>	Yes	No	No	1.75E-09	0.41	Up
ENSG00000101187	<i>SLCO4A1</i>	No	Yes	Yes	2.57E-09	-1.91	Down
ENSG00000103710	<i>RASL12</i>	Yes	No	Yes	3.61E-09	-1.34	Down
ENSG00000155659	<i>VSIG4</i>	Yes	Yes	No	3.85E-09	-2.04	Down
ENSG00000253549	<i>CA3-AS1</i>	Yes	No	Yes	4.04E-09	2.41	Up
ENSG00000105698	<i>USF2</i>	Yes	No	No	5.02E-09	-0.50	Down
ENSG00000196642	<i>RABL6</i>	Yes	No	No	5.44E-09	-0.52	Down
ENSG00000122034	<i>GTF3A</i>	Yes	No	No	8.93E-09	-0.62	Down
ENSG00000235790	<i>AC114488.2</i>	Yes	No	No	9.04E-09	0.83	Up
ENSG00000104879	<i>CKM</i>	Yes	No	No	1.05E-08	-0.95	Down
ENSG00000114867	<i>EIF4G1</i>	Yes	No	No	1.21E-08	-0.80	Down
ENSG00000260469	<i>INSYN1-AS1</i>	Yes	No	No	1.33E-08	-0.96	Down
ENSG00000260755	<i>AC010542.2</i>	Yes	No	No	1.49E-08	0.38	Up
ENSG00000257453	<i>AC011611.3</i>	Yes	Yes	No	1.60E-08	1.39	Up
ENSG00000104894	<i>CD37</i>	Yes	No	No	1.83E-08	-0.36	Down
ENSG00000272345	<i>AL031775.1</i>	Yes	No	No	2.25E-08	-0.48	Down
ENSG00000253645	<i>AC108863.1</i>	Yes	No	No	2.61E-08	0.41	Up
ENSG00000156471	<i>PTDSS1</i>	Yes	No	No	3.01E-08	-1.25	Down
ENSG00000178297	<i>TMPRSS9</i>	Yes	No	No	3.37E-08	0.48	Up
ENSG00000274021	<i>AC024909.1</i>	Yes	No	No	3.37E-08	0.98	Up
ENSG00000187837	<i>HIST1H1C</i>	Yes	No	No	3.55E-08	-0.80	Down
ENSG00000205363	<i>INSYN1</i>	Yes	No	Yes	3.96E-08	-1.30	Down
ENSG00000137331	<i>IER3</i>	Yes	No	No	4.20E-08	-0.67	Down
ENSG00000188229	<i>TUBB4B</i>	Yes	No	No	4.20E-08	-1.20	Down
ENSG00000125730	<i>C3</i>	Yes	No	No	4.63E-08	-1.39	Down
ENSG00000175084	<i>DES</i>	Yes	No	No	4.91E-08	-0.73	Down
ENSG00000224985	<i>AL590714.1</i>	Yes	No	No	5.34E-08	-0.33	Down
ENSG00000139289	<i>PHLDA1</i>	Yes	Yes	No	5.50E-08	1.28	Up
ENSG00000137818	<i>RPLP1</i>	Yes	No	No	5.71E-08	-0.78	Down
ENSG00000105058	<i>FAM32A</i>	Yes	No	No	6.51E-08	-0.85	Down
ENSG00000272288	<i>AL451165.2</i>	Yes	No	No	6.58E-08	-0.39	Down
ENSG00000189058	<i>APOD</i>	Yes	No	Yes	7.26E-08	-1.28	Down
ENSG00000163050	<i>COQ8A</i>	Yes	No	No	7.30E-08	-0.87	Down
ENSG00000101335	<i>MYL9</i>	Yes	No	No	7.31E-08	-0.88	Down
ENSG00000196924	<i>FLNA</i>	Yes	No	No	7.31E-08	-0.83	Down
ENSG00000149294	<i>NCAM1</i>	Yes	No	No	7.54E-08	-0.61	Down
ENSG00000125844	<i>RRBP1</i>	Yes	No	No	7.81E-08	-0.48	Down
ENSG00000182175	<i>RGMA</i>	Yes	No	No	8.37E-08	-1.14	Down

ENSG00000259683	<i>AC243562.2</i>	Yes	No	No	8.68E-08	0.89	Up
ENSG00000019169	<i>MARCO</i>	Yes	Yes	No	8.80E-08	-2.93	Down
ENSG00000034510	<i>TMSB10</i>	Yes	No	No	8.80E-08	-1.02	Down
ENSG00000152580	<i>IGSF10</i>	Yes	No	No	9.06E-08	1.21	Up
ENSG00000166091	<i>CMTM5</i>	Yes	Yes	No	9.23E-08	-1.52	Down
ENSG00000187922	<i>LCN10</i>	Yes	Yes	Yes	9.40E-08	-2.64	Down
ENSG00000123240	<i>OPTN</i>	Yes	No	No	1.35E-07	-0.73	Down
ENSG00000197548	<i>ATG7</i>	Yes	No	No	1.58E-07	0.26	Up
ENSG00000259488	<i>AC023355.1</i>	Yes	No	No	1.70E-07	0.42	Up
ENSG00000103023	<i>PRSS54</i>	Yes	No	No	1.79E-07	1.12	Up
ENSG00000173402	<i>DAG1</i>	Yes	No	No	1.94E-07	-0.70	Down
ENSG00000085662	<i>AKR1B1</i>	Yes	No	Yes	1.99E-07	-1.36	Down
ENSG00000140534	<i>TICRR</i>	Yes	No	No	2.18E-07	0.69	Up
ENSG00000165916	<i>PSMC3</i>	Yes	No	No	2.22E-07	-0.74	Down
ENSG00000267577	<i>AC010327.3</i>	Yes	No	No	2.24E-07	1.18	Up
ENSG00000120729	<i>MYOT</i>	Yes	Yes	No	2.25E-07	-1.08	Down
ENSG00000224195	<i>AC022400.1</i>	Yes	No	No	2.33E-07	0.50	Up
ENSG00000254254	<i>AC012349.1</i>	Yes	No	No	2.46E-07	2.00	Up
ENSG00000129538	<i>RNASE1</i>	Yes	No	No	2.68E-07	-1.15	Down
ENSG00000113369	<i>ARRDC3</i>	Yes	No	No	2.94E-07	0.97	Up
ENSG00000138193	<i>PLCE1</i>	Yes	No	Yes	3.27E-07	1.13	Up
ENSG00000141736	<i>ERBB2</i>	Yes	No	No	3.27E-07	-0.58	Down
ENSG00000140416	<i>TPM1</i>	Yes	No	No	3.28E-07	-0.74	Down
ENSG00000255252	<i>AL078612.1</i>	Yes	No	No	3.80E-07	-0.44	Down
ENSG00000184164	<i>CRELD2</i>	Yes	No	No	4.70E-07	-0.61	Down
ENSG00000166206	<i>GABRB3</i>	Yes	No	Yes	4.80E-07	-1.70	Down
ENSG00000198763	<i>MT-ND2</i>	Yes	No	No	5.34E-07	-0.61	Down
ENSG00000257653	<i>AC117498.1</i>	Yes	No	No	6.01E-07	0.49	Up
ENSG00000277258	<i>PCGF2</i>	Yes	No	No	6.62E-07	-0.40	Down
ENSG00000167996	<i>FTH1</i>	Yes	No	No	7.00E-07	-0.72	Down
ENSG00000147872	<i>PLIN2</i>	Yes	Yes	No	8.32E-07	-1.43	Down
ENSG00000161970	<i>RPL26</i>	Yes	No	No	8.36E-07	-0.77	Down
ENSG00000149716	<i>LTO1</i>	Yes	No	No	8.77E-07	0.43	Up
ENSG00000152086	<i>TUBA3E</i>	Yes	No	Yes	8.78E-07	-2.46	Down
ENSG00000173369	<i>C1QB</i>	Yes	Yes	No	8.78E-07	-1.42	Down
ENSG00000286018	<i>AF129075.3</i>	Yes	No	No	9.51E-07	-0.28	Down
ENSG00000196739	<i>COL27A1</i>	Yes	No	No	1.14E-06	-1.02	Down
ENSG00000125691	<i>RPL23</i>	Yes	No	No	1.28E-06	-0.63	Down
ENSG00000184489	<i>PTP4A3</i>	Yes	No	Yes	1.69E-06	-0.94	Down
ENSG00000159387	<i>IRX6</i>	Yes	No	No	1.71E-06	1.97	Up

ENSG00000203804	<i>ADAMTSL4-AS1</i>	No	No	Yes	1.74E-06	-0.99	Down
ENSG00000164855	<i>TMEM184A</i>	Yes	No	No	1.92E-06	0.77	Up
ENSG00000196498	<i>NCOR2</i>	Yes	No	No	1.92E-06	-0.43	Down
ENSG00000198336	<i>MYL4</i>	Yes	No	Yes	1.93E-06	-2.60	Down
ENSG00000198157	<i>HMGN5</i>	Yes	No	No	2.25E-06	-0.92	Down
ENSG00000257950	<i>P2RX5-TAX1BP3</i>	Yes	No	No	2.25E-06	-0.43	Down
ENSG00000204519	<i>ZNF551</i>	Yes	No	No	2.34E-06	0.56	Up
ENSG00000172086	<i>KRCC1</i>	Yes	No	No	2.38E-06	-0.66	Down
ENSG00000118181	<i>RPS25</i>	Yes	No	No	2.68E-06	-0.50	Down
ENSG00000114923	<i>SLC4A3</i>	Yes	No	No	3.35E-06	-0.53	Down
ENSG00000136436	<i>CALCOCO2</i>	Yes	No	No	3.40E-06	-0.82	Down
ENSG00000179218	<i>CALR</i>	Yes	No	No	3.40E-06	-0.59	Down
ENSG00000105185	<i>PDCD5</i>	Yes	No	No	3.50E-06	-0.99	Down
ENSG00000124491	<i>F13A1</i>	Yes	No	No	3.50E-06	-1.69	Down
ENSG00000075886	<i>TUBA3D</i>	Yes	Yes	Yes	3.66E-06	-1.75	Down
ENSG00000168610	<i>STAT3</i>	Yes	No	No	3.81E-06	-1.05	Down
ENSG00000160808	<i>MYL3</i>	Yes	No	No	3.84E-06	-1.08	Down
ENSG00000117592	<i>PRDX6</i>	Yes	No	No	3.89E-06	-0.89	Down
ENSG00000132522	<i>GPS2</i>	Yes	No	No	4.36E-06	-0.34	Down
ENSG00000065054	<i>SLC9A3R2</i>	Yes	No	No	4.40E-06	-1.04	Down
ENSG00000118194	<i>TNNT2</i>	Yes	No	No	4.40E-06	-0.62	Down
ENSG00000228620	<i>Z97056.1</i>	Yes	No	No	4.60E-06	0.89	Up
ENSG00000065978	<i>YBX1</i>	Yes	No	No	5.02E-06	-0.55	Down
ENSG00000160051	<i>IQCC</i>	Yes	No	No	5.09E-06	0.56	Up
ENSG00000263388	<i>AC002347.2</i>	Yes	No	No	5.26E-06	0.51	Up
ENSG00000263843	<i>AC022211.2</i>	Yes	No	No	5.48E-06	-0.42	Down
ENSG00000173113	<i>TRMT112</i>	Yes	No	No	5.64E-06	-0.31	Down
ENSG00000233110	<i>AC093797.1</i>	Yes	No	No	6.01E-06	0.97	Up
ENSG00000089157	<i>RPLP0</i>	Yes	No	No	6.43E-06	-1.08	Down
ENSG00000204574	<i>ABCF1</i>	Yes	No	No	6.69E-06	-0.47	Down
ENSG00000068976	<i>PYGM</i>	Yes	No	Yes	7.34E-06	-1.21	Down
ENSG00000130176	<i>CNN1</i>	Yes	Yes	No	7.74E-06	-1.62	Down
ENSG00000175416	<i>CLTB</i>	Yes	No	No	8.28E-06	-0.70	Down
ENSG00000198888	<i>MT-ND1</i>	Yes	No	No	8.74E-06	-0.64	Down
ENSG00000183255	<i>PTTG1IP</i>	Yes	No	No	9.07E-06	-0.50	Down
ENSG00000211445	<i>GPX3</i>	Yes	No	No	9.18E-06	-0.83	Down
ENSG00000053524	<i>MCF2L2</i>	Yes	No	No	9.66E-06	1.09	Up
ENSG00000262884	<i>AC015921.1</i>	Yes	No	No	9.88E-06	-0.88	Down
ENSG00000260465	<i>AC018557.1</i>	Yes	No	No	9.89E-06	0.26	Up

ENSG00000161016	<i>RPL8</i>	Yes	No	No	9.92E-06	-0.71	Down
ENSG00000007080	<i>CCDC124</i>	Yes	No	No	1.10E-05	-0.63	Down
ENSG00000171533	<i>MAP6</i>	Yes	No	No	1.18E-05	0.43	Up
ENSG00000286037	<i>AC011479.4</i>	Yes	No	No	1.18E-05	0.62	Up
ENSG00000272153	<i>AL365330.1</i>	Yes	No	No	1.22E-05	0.30	Up
ENSG00000214530	<i>STARD10</i>	Yes	No	Yes	1.23E-05	-1.02	Down
ENSG00000198855	<i>FICD</i>	Yes	No	No	1.25E-05	0.50	Up
ENSG00000164694	<i>FNDC1</i>	Yes	Yes	No	1.49E-05	2.23	Up
ENSG00000213024	<i>NUP62</i>	Yes	No	No	1.50E-05	-0.58	Down
ENSG00000258761	<i>AC116903.1</i>	Yes	No	No	1.60E-05	-0.46	Down
ENSG00000063245	<i>EPN1</i>	Yes	No	No	1.66E-05	-0.75	Down
ENSG00000071626	<i>DAZAP1</i>	Yes	No	No	1.80E-05	-0.80	Down
ENSG00000137312	<i>FLOT1</i>	Yes	No	No	1.82E-05	-0.68	Down
ENSG00000187498	<i>COL4A1</i>	Yes	No	No	1.84E-05	-0.75	Down
ENSG00000176046	<i>NUPR1</i>	Yes	No	No	1.90E-05	-0.79	Down
ENSG00000075624	<i>ACTB</i>	Yes	No	No	1.95E-05	-0.98	Down
ENSG00000196557	<i>CACNA1H</i>	No	Yes	No	2.00E-05	-1.02	Down
ENSG00000196821	<i>C6orf106</i>	Yes	No	No	2.00E-05	-0.59	Down
ENSG00000105953	<i>OGDH</i>	Yes	No	No	2.05E-05	-0.68	Down
ENSG00000198959	<i>TGM2</i>	Yes	No	No	2.10E-05	-0.96	Down
ENSG00000241135	<i>LINC00881</i>	Yes	No	No	2.12E-05	-1.04	Down
ENSG00000089009	<i>RPL6</i>	Yes	No	No	2.14E-05	-0.77	Down
ENSG00000188643	<i>S100A16</i>	Yes	No	No	2.19E-05	-1.32	Down
ENSG00000126247	<i>CAPNS1</i>	Yes	No	No	2.24E-05	-0.69	Down
ENSG00000269886	<i>AC022382.1</i>	Yes	No	No	2.26E-05	0.81	Up
ENSG00000160392	<i>C19orf47</i>	Yes	No	No	2.42E-05	-0.93	Down
ENSG00000225400	<i>RAB28P5</i>	Yes	No	No	2.50E-05	0.48	Up
ENSG00000198467	<i>TPM2</i>	Yes	No	No	2.63E-05	-0.80	Down
ENSG00000232767	<i>AC016825.1</i>	Yes	No	No	2.64E-05	-0.40	Down
ENSG00000100401	<i>RANGAP1</i>	Yes	No	No	2.64E-05	-0.62	Down
ENSG00000136918	<i>WDR38</i>	Yes	No	No	2.79E-05	0.37	Up
ENSG00000240583	<i>AQP1</i>	Yes	Yes	No	2.82E-05	-1.15	Down
ENSG00000071127	<i>WDR1</i>	Yes	No	No	3.01E-05	-0.90	Down
ENSG00000173457	<i>PPP1R14B</i>	Yes	No	No	3.01E-05	-0.86	Down
ENSG00000167671	<i>UBXN6</i>	Yes	No	No	3.14E-05	-0.37	Down
ENSG00000179943	<i>FIZ1</i>	Yes	No	No	3.15E-05	-0.37	Down
ENSG00000199053	<i>MIR324</i>	Yes	No	No	3.58E-05	0.67	Up
ENSG00000105974	<i>CAV1</i>	Yes	No	No	3.70E-05	-0.72	Down
ENSG00000049768	<i>FOXP3</i>	Yes	No	No	3.70E-05	0.49	Up
ENSG00000101421	<i>CHMP4B</i>	Yes	No	No	3.75E-05	-0.55	Down

ENSG00000169221	<i>TBC1D10B</i>	Yes	No	No	4.23E-05	-0.37	Down
ENSG00000073008	<i>PVR</i>	Yes	No	No	4.27E-05	-1.04	Down
ENSG00000125651	<i>GTF2F1</i>	Yes	No	No	4.51E-05	-0.49	Down
ENSG00000170142	<i>UBE2E1</i>	Yes	No	No	4.54E-05	-0.30	Down
ENSG00000182054	<i>IDH2</i>	Yes	No	No	5.07E-05	-0.86	Down
ENSG00000120049	<i>KCNIP2</i>	Yes	No	No	5.08E-05	-0.99	Down
ENSG00000131459	<i>GFPT2</i>	Yes	No	Yes	5.09E-05	-1.80	Down
ENSG00000229273	<i>BX664615.1</i>	Yes	No	No	5.50E-05	0.49	Up
ENSG00000269139	<i>AC010336.5</i>	Yes	No	No	5.50E-05	-0.67	Down
ENSG00000232803	<i>SLCO4A1-AS1</i>	No	Yes	Yes	5.72E-05	-1.54	Down
ENSG00000188163	<i>FAM166A</i>	Yes	No	No	5.87E-05	-0.96	Down
ENSG00000012211	<i>PRICKLE3</i>	Yes	No	No	6.21E-05	-0.62	Down
ENSG00000175166	<i>PSMD2</i>	Yes	No	No	6.73E-05	-0.42	Down
ENSG00000114854	<i>TNNC1</i>	Yes	No	No	7.34E-05	-0.57	Down
ENSG00000177731	<i>FLII</i>	Yes	No	No	7.39E-05	-0.57	Down
ENSG00000130816	<i>DNMT1</i>	Yes	No	No	7.56E-05	-0.87	Down
ENSG00000187984	<i>ANKRD19P</i>	Yes	No	No	7.64E-05	0.44	Up
ENSG00000258232	<i>AC125611.3</i>	Yes	No	No	7.73E-05	-0.80	Down
ENSG00000081803	<i>CADPS2</i>	No	No	Yes	7.82E-05	-1.39	Down
ENSG00000116350	<i>SRSF4</i>	Yes	No	No	8.51E-05	-0.25	Down
ENSG00000185475	<i>TMEM179B</i>	Yes	No	No	8.71E-05	-0.45	Down
ENSG00000196549	<i>MME</i>	No	Yes	Yes	8.75E-05	1.96	Up
ENSG00000039319	<i>ZFYVE16</i>	Yes	No	No	8.81E-05	0.68	Up
ENSG00000170417	<i>TMEM182</i>	Yes	No	No	8.95E-05	1.29	Up
ENSG00000279033	<i>AC090984.1</i>	Yes	No	No	8.99E-05	0.31	Up
ENSG00000083845	<i>RPS5</i>	Yes	No	No	9.42E-05	-0.70	Down
ENSG00000101439	<i>CST3</i>	Yes	No	No	9.42E-05	-0.63	Down
ENSG00000198874	<i>TYW1</i>	Yes	No	No	9.42E-05	0.28	Up
ENSG00000213694	<i>S1PR3</i>	Yes	No	Yes	9.42E-05	-1.26	Down
ENSG00000188227	<i>ZNF793</i>	Yes	No	No	9.86E-05	0.58	Up
ENSG00000163468	<i>CCT3</i>	Yes	No	No	1.02E-04	-0.85	Down
ENSG00000213442	<i>RPL18AP3</i>	Yes	No	No	1.06E-04	-0.85	Down
ENSG00000163431	<i>LMOD1</i>	No	No	Yes	1.07E-04	-1.02	Down
ENSG00000066230	<i>SLC9A3</i>	Yes	Yes	No	1.08E-04	1.27	Up
ENSG00000136875	<i>PRPF4</i>	Yes	No	No	1.08E-04	-0.35	Down
ENSG00000279314	<i>AC002525.1</i>	Yes	No	No	1.08E-04	0.64	Up
ENSG00000104848	<i>KCNA7</i>	Yes	No	Yes	1.13E-04	-1.66	Down
ENSG00000235958	<i>UBOX5-AS1</i>	Yes	No	No	1.16E-04	0.60	Up
ENSG00000106631	<i>MYL7</i>	Yes	No	No	1.17E-04	-1.23	Down
ENSG00000139329	<i>LUM</i>	No	Yes	Yes	1.17E-04	1.26	Up

ENSG00000080709	<i>KCNN2</i>	Yes	No	Yes	1.19E-04	-1.44	Down
ENSG00000159403	<i>C1R</i>	Yes	No	No	1.19E-04	-1.02	Down
ENSG00000065518	<i>NDUFB4</i>	Yes	No	No	1.21E-04	-0.80	Down
ENSG00000209082	<i>MT-TL1</i>	Yes	No	No	1.23E-04	-1.05	Down
ENSG00000167680	<i>SEMA6B</i>	Yes	No	No	1.24E-04	-1.39	Down
ENSG00000014216	<i>CAPN1</i>	Yes	No	No	1.25E-04	-0.47	Down
ENSG00000159189	<i>C1QC</i>	Yes	No	No	1.29E-04	-1.15	Down
ENSG00000186714	<i>CCDC73</i>	Yes	No	No	1.31E-04	-0.44	Down
ENSG00000101144	<i>BMP7</i>	Yes	No	No	1.36E-04	-1.81	Down
ENSG00000036257	<i>CUL3</i>	Yes	No	No	1.38E-04	-0.66	Down
ENSG00000143870	<i>PDIA6</i>	Yes	No	No	1.38E-04	-0.61	Down
ENSG00000249825	<i>AC012636.1</i>	Yes	No	No	1.45E-04	0.99	Up
ENSG00000187147	<i>RNF220</i>	Yes	No	No	1.52E-04	-0.48	Down
ENSG00000285577	<i>AC019127.1</i>	Yes	No	No	1.54E-04	0.76	Up
ENSG00000116260	<i>QSOX1</i>	Yes	No	No	1.61E-04	-1.20	Down
ENSG00000134765	<i>DSC1</i>	No	Yes	No	1.68E-04	1.51	Up
ENSG00000178764	<i>ZHX2</i>	Yes	No	No	1.74E-04	-0.60	Down
ENSG00000198034	<i>RPS4X</i>	Yes	No	No	1.75E-04	-0.62	Down
ENSG00000132475	<i>H3F3B</i>	Yes	No	No	1.79E-04	-0.49	Down
ENSG00000141965	<i>FEM1A</i>	Yes	No	No	1.84E-04	-0.77	Down
ENSG00000233138	<i>AL023584.1</i>	Yes	No	No	1.85E-04	0.74	Up
ENSG00000138326	<i>RPS24</i>	Yes	No	No	1.85E-04	-0.72	Down
ENSG00000165124	<i>SVEP1</i>	Yes	No	Yes	1.88E-04	0.99	Up
ENSG00000112306	<i>RPS12</i>	Yes	No	No	1.91E-04	-0.79	Down
ENSG00000160447	<i>PKN3</i>	Yes	No	No	1.93E-04	-0.87	Down
ENSG00000101347	<i>SAMHD1</i>	Yes	No	No	1.94E-04	-1.04	Down
ENSG00000277801	<i>AL138478.1</i>	Yes	No	No	1.96E-04	-0.32	Down
ENSG00000054654	<i>SYNE2</i>	Yes	No	No	1.98E-04	-0.71	Down
ENSG00000166123	<i>GPT2</i>	No	No	Yes	2.01E-04	-1.21	Down
ENSG00000114554	<i>PLXNA1</i>	Yes	No	No	2.12E-04	-1.03	Down
ENSG00000142330	<i>CAPN10</i>	Yes	No	No	2.13E-04	-0.68	Down
ENSG00000167995	<i>BEST1</i>	Yes	No	No	2.21E-04	-0.46	Down
ENSG00000103056	<i>SMPD3</i>	Yes	No	No	2.24E-04	0.41	Up
ENSG00000225098	<i>BCRP1</i>	Yes	No	No	2.26E-04	-1.71	Down
ENSG00000204673	<i>AKT1S1</i>	Yes	No	No	2.26E-04	-0.40	Down
ENSG00000135423	<i>GLS2</i>	Yes	No	No	2.26E-04	0.56	Up
ENSG00000113456	<i>RAD1</i>	Yes	No	No	2.26E-04	-0.64	Down
ENSG00000113721	<i>PDGFRB</i>	Yes	No	No	2.26E-04	-0.97	Down
ENSG00000286077	<i>AL158141.1</i>	Yes	No	No	2.28E-04	-0.65	Down
ENSG00000106336	<i>FBXO24</i>	Yes	No	No	2.34E-04	1.11	Up

ENSG00000226009	<i>KCNIP2-AS1</i>	Yes	No	No	2.34E-04	-1.03	Down
ENSG00000244945	<i>AC136604.2</i>	Yes	No	No	2.36E-04	-0.32	Down
ENSG00000149428	<i>HYOU1</i>	Yes	No	No	2.42E-04	-0.87	Down
ENSG00000092969	<i>TGFB2</i>	Yes	No	No	2.51E-04	1.13	Up
ENSG00000264578	<i>AC009630.3</i>	Yes	No	No	2.65E-04	-0.27	Down
ENSG00000254473	<i>AL354920.1</i>	Yes	No	No	2.65E-04	0.56	Up
ENSG00000270112	<i>AC090241.2</i>	Yes	No	No	2.71E-04	0.88	Up
ENSG00000127616	<i>SMARCA4</i>	Yes	No	No	2.75E-04	-0.51	Down
ENSG00000011295	<i>TTC19</i>	Yes	No	No	2.77E-04	-0.32	Down
ENSG00000214783	<i>POLR2J4</i>	Yes	No	No	2.80E-04	-0.41	Down
ENSG00000159251	<i>ACTC1</i>	Yes	No	Yes	2.85E-04	-0.75	Down
ENSG00000105618	<i>PRPF31</i>	Yes	No	No	3.06E-04	-0.38	Down
ENSG00000267470	<i>ZNF571-AS1</i>	Yes	No	No	3.19E-04	0.91	Up
ENSG00000143740	<i>SNAP47</i>	Yes	No	No	3.24E-04	0.45	Up
ENSG00000197756	<i>RPL37A</i>	Yes	No	No	3.29E-04	-0.59	Down
ENSG00000234617	<i>SNRK-AS1</i>	Yes	No	No	3.49E-04	0.72	Up
ENSG00000088992	<i>TESC</i>	No	No	Yes	3.50E-04	-0.66	Down
ENSG00000007516	<i>BAIAP3</i>	Yes	No	No	3.52E-04	-0.41	Down
ENSG00000225670	<i>CADM3-AS1</i>	Yes	No	Yes	3.52E-04	-1.09	Down
ENSG00000279159	<i>AC003681.1</i>	Yes	No	No	3.54E-04	0.31	Up
ENSG00000264112	<i>AC015813.1</i>	Yes	No	No	3.55E-04	1.13	Up
ENSG00000226143	<i>Z98752.1</i>	Yes	No	No	3.60E-04	0.62	Up
ENSG00000163359	<i>COL6A3</i>	Yes	No	No	3.76E-04	-0.82	Down
ENSG00000064601	<i>CTSA</i>	Yes	No	No	3.88E-04	-0.41	Down
ENSG00000227199	<i>ST7-AS1</i>	Yes	No	No	3.90E-04	-0.54	Down
ENSG00000116871	<i>MAP7D1</i>	Yes	No	No	3.95E-04	-0.44	Down
ENSG00000272750	<i>AL592148.3</i>	Yes	No	No	3.96E-04	-0.16	Down
ENSG00000117394	<i>SLC2A1</i>	Yes	No	No	4.07E-04	-0.78	Down
ENSG00000076344	<i>RGS11</i>	Yes	No	No	4.21E-04	0.83	Up
ENSG00000008311	<i>AASS</i>	Yes	No	No	4.27E-04	-0.92	Down
ENSG00000261065	<i>AL592146.1</i>	Yes	No	No	4.41E-04	-0.79	Down
ENSG00000103415	<i>HMOX2</i>	Yes	No	No	4.46E-04	-0.61	Down
ENSG00000168268	<i>NT5DC2</i>	No	No	Yes	4.70E-04	-1.08	Down
ENSG00000108592	<i>FTSJ3</i>	Yes	No	No	4.74E-04	-0.34	Down
ENSG00000177600	<i>RPLP2</i>	Yes	No	No	5.08E-04	-0.75	Down
ENSG00000102466	<i>FGF14</i>	Yes	No	No	5.27E-04	1.24	Up
ENSG00000106484	<i>MEST</i>	Yes	No	No	5.37E-04	0.80	Up
ENSG00000018280	<i>SLC11A1</i>	No	Yes	No	5.53E-04	-1.31	Down
ENSG00000132589	<i>FLOT2</i>	Yes	No	No	5.55E-04	-0.94	Down
ENSG00000175463	<i>TBC1D10C</i>	Yes	No	No	5.55E-04	0.93	Up



ENSG00000179604	<i>CDC42EP4</i>	Yes	No	No	5.58E-04	-1.11	Down
ENSG00000271976	<i>AC012467.2</i>	Yes	No	No	5.64E-04	-0.94	Down
ENSG00000090061	<i>CCNK</i>	Yes	No	No	5.78E-04	-0.28	Down
ENSG00000140199	<i>SLC12A6</i>	Yes	No	No	5.90E-04	-0.23	Down
ENSG00000187187	<i>ZNF546</i>	Yes	No	No	5.91E-04	0.56	Up
ENSG00000135974	<i>C2orf49</i>	Yes	No	No	6.00E-04	0.85	Up
ENSG00000104904	<i>OAZ1</i>	Yes	No	No	6.11E-04	-0.77	Down
ENSG00000129116	<i>PALLD</i>	Yes	No	No	6.23E-04	-0.57	Down
ENSG00000148229	<i>POLE3</i>	Yes	No	No	6.27E-04	-0.66	Down
ENSG00000134871	<i>COL4A2</i>	Yes	No	No	6.49E-04	-0.58	Down
ENSG00000135720	<i>DYNC1LI2</i>	Yes	No	No	6.69E-04	0.75	Up
ENSG00000129255	<i>MPDU1</i>	Yes	No	No	6.71E-04	-0.37	Down
ENSG00000116962	<i>NID1</i>	Yes	Yes	No	6.94E-04	-0.98	Down
ENSG00000134030	<i>CTIF</i>	Yes	No	No	7.14E-04	-0.53	Down
ENSG00000173641	<i>HSPB7</i>	Yes	No	No	7.23E-04	-0.57	Down
ENSG00000273151	<i>AC073957.3</i>	Yes	No	No	7.40E-04	0.54	Up
ENSG00000267128	<i>RNF157-AS1</i>	Yes	No	No	7.48E-04	-0.94	Down
ENSG00000159335	<i>PTMS</i>	Yes	No	No	7.88E-04	-0.76	Down
ENSG00000155115	<i>GTF3C6</i>	Yes	No	No	7.89E-04	-0.70	Down
ENSG00000100968	<i>NFATC4</i>	Yes	Yes	No	7.93E-04	-1.20	Down
ENSG00000163082	<i>SGPP2</i>	No	Yes	No	8.02E-04	-1.46	Down
ENSG00000128591	<i>FLNC</i>	Yes	No	No	8.13E-04	-0.88	Down
ENSG00000140564	<i>FURIN</i>	Yes	No	No	8.14E-04	-0.81	Down
ENSG00000143321	<i>HDGF</i>	Yes	No	No	8.22E-04	-0.54	Down
ENSG00000142459	<i>EVI5L</i>	Yes	No	No	8.43E-04	-0.90	Down
ENSG00000110697	<i>PITPNM1</i>	Yes	No	No	8.50E-04	-0.70	Down
ENSG00000132716	<i>DCAF8</i>	Yes	No	No	8.57E-04	0.44	Up
ENSG00000229780	<i>UBE2Q1-AS1</i>	Yes	No	No	8.71E-04	-0.48	Down
ENSG00000118292	<i>C1orf54</i>	Yes	No	No	8.74E-04	0.34	Up
ENSG00000145494	<i>NDUFS6</i>	Yes	No	No	8.78E-04	-0.82	Down
ENSG00000230927	<i>TMBIM7P</i>	Yes	No	No	8.87E-04	0.65	Up
ENSG00000132507	<i>EIF5A</i>	Yes	No	No	9.14E-04	-0.48	Down
ENSG00000261684	<i>AC018362.1</i>	Yes	No	No	9.26E-04	0.25	Up
ENSG00000166831	<i>RBPMS2</i>	Yes	No	No	9.33E-04	-0.89	Down
ENSG00000237686	<i>AL109615.3</i>	Yes	No	No	9.52E-04	0.80	Up
ENSG00000115593	<i>SMYD1</i>	Yes	No	No	9.53E-04	-0.85	Down
ENSG00000185739	<i>SRL</i>	Yes	No	No	1.06E-03	-0.60	Down
ENSG00000113758	<i>DBN1</i>	No	No	Yes	1.08E-03	-0.87	Down
ENSG00000164879	<i>CA3</i>	No	No	Yes	1.09E-03	1.42	Up
ENSG00000181577	<i>C6orf223</i>	Yes	No	No	1.10E-03	1.10	Up

ENSG00000136942	<i>RPL35</i>	Yes	No	No	1.10E-03	-0.58	Down
ENSG00000142910	<i>TINAGL1</i>	Yes	No	No	1.10E-03	-0.66	Down
ENSG00000006007	<i>GDE1</i>	Yes	No	No	1.11E-03	-0.74	Down
ENSG00000163638	<i>ADAMTS9</i>	No	No	Yes	1.14E-03	-1.20	Down
ENSG00000179262	<i>RAD23A</i>	Yes	No	No	1.14E-03	-0.43	Down
ENSG00000173372	<i>C1QA</i>	Yes	No	No	1.21E-03	-0.99	Down
ENSG00000186350	<i>RXRA</i>	Yes	No	No	1.21E-03	-0.68	Down
ENSG00000065882	<i>TBC1D1</i>	Yes	No	No	1.23E-03	-0.83	Down
ENSG00000121440	<i>PDZRN3</i>	Yes	No	No	1.23E-03	-0.45	Down
ENSG00000272540	<i>AL662797.1</i>	Yes	No	No	1.25E-03	-0.58	Down
ENSG00000196437	<i>ZNF569</i>	Yes	No	No	1.27E-03	0.66	Up
ENSG00000107263	<i>RAPGEF1</i>	Yes	No	No	1.28E-03	-0.66	Down
ENSG00000185222	<i>TCEAL9</i>	Yes	No	No	1.32E-03	-0.52	Down
ENSG00000151729	<i>SLC25A4</i>	Yes	No	No	1.40E-03	-0.54	Down
ENSG00000158859	<i>ADAMTS4</i>	No	No	No	1.44E-03	-1.15	Down
ENSG00000185896	<i>LAMP1</i>	Yes	No	No	1.44E-03	-0.64	Down
ENSG00000261276	<i>AP003071.3</i>	Yes	No	No	1.47E-03	-1.06	Down
ENSG00000238045	<i>AC009133.1</i>	Yes	No	No	1.48E-03	-0.45	Down
ENSG00000188677	<i>PARVB</i>	Yes	No	No	1.49E-03	-0.81	Down
ENSG00000237732	<i>AC010980.1</i>	Yes	No	No	1.50E-03	-1.20	Down
ENSG00000131653	<i>TRAF7</i>	Yes	No	No	1.50E-03	-0.62	Down
ENSG00000168140	<i>VASN</i>	Yes	Yes	No	1.51E-03	-0.89	Down
ENSG00000115705	<i>TPO</i>	No	Yes	No	1.52E-03	-1.15	Down
ENSG00000188467	<i>SLC24A5</i>	Yes	No	No	1.53E-03	0.48	Up
ENSG00000130508	<i>PXDN</i>	Yes	No	No	1.53E-03	-1.11	Down
ENSG00000069122	<i>ADGRF5</i>	Yes	No	No	1.55E-03	-0.60	Down
ENSG00000239857	<i>GET4</i>	Yes	No	No	1.56E-03	0.73	Up
ENSG00000168256	<i>NKIRAS2</i>	Yes	No	No	1.56E-03	-0.37	Down
ENSG00000135519	<i>KCNH3</i>	Yes	No	No	1.57E-03	-0.63	Down
ENSG00000124562	<i>SNRPC</i>	Yes	No	No	1.59E-03	-0.82	Down
ENSG00000196182	<i>STK40</i>	Yes	No	No	1.62E-03	-0.71	Down
ENSG00000131652	<i>THOC6</i>	Yes	No	No	1.62E-03	-0.58	Down
ENSG00000282917	<i>AC107068.2</i>	No	No	Yes	1.63E-03	-1.40	Down
ENSG00000179632	<i>MAF1</i>	Yes	No	No	1.66E-03	-0.47	Down
ENSG00000165655	<i>ZNF503</i>	Yes	No	No	1.68E-03	-0.99	Down
ENSG00000102225	<i>CDK16</i>	Yes	No	No	1.73E-03	-0.70	Down
ENSG00000106483	<i>SFRP4</i>	Yes	Yes	No	1.78E-03	1.52	Up
ENSG00000104907	<i>TRMT1</i>	Yes	No	No	1.83E-03	-0.71	Down
ENSG00000231437	<i>LINC01750</i>	Yes	No	No	1.83E-03	-0.89	Down
ENSG00000153902	<i>LGI4</i>	Yes	No	No	1.84E-03	-0.76	Down

ENSG00000232907	<i>DLGAP4-AS1</i>	Yes	No	No	1.87E-03	0.29	Up
ENSG0000022840	<i>RNF10</i>	Yes	No	No	1.90E-03	-0.51	Down
ENSG0000064300	<i>NGFR</i>	No	Yes	No	1.90E-03	-1.28	Down
ENSG00000179636	<i>TPPP2</i>	Yes	No	No	1.91E-03	-0.50	Down
ENSG00000198892	<i>SHISA4</i>	Yes	No	No	1.91E-03	-1.07	Down
ENSG00000143545	<i>RAB13</i>	Yes	No	No	1.93E-03	-0.67	Down
ENSG00000132000	<i>PODNL1</i>	Yes	No	No	1.94E-03	1.41	Up
ENSG00000138031	<i>ADCY3</i>	Yes	No	No	2.03E-03	-0.77	Down
ENSG00000184009	<i>ACTG1</i>	Yes	No	No	2.07E-03	-0.73	Down
ENSG00000140443	<i>IGF1R</i>	Yes	No	No	2.07E-03	0.62	Up
ENSG00000250159	<i>AC106791.1</i>	Yes	No	No	2.07E-03	-0.79	Down
ENSG00000115241	<i>PPM1G</i>	Yes	No	No	2.09E-03	-0.57	Down
ENSG00000269881	<i>AC004754.1</i>	Yes	No	No	2.10E-03	0.58	Up
ENSG00000164733	<i>CTSB</i>	Yes	No	No	2.10E-03	-0.50	Down
ENSG00000171476	<i>HOPX</i>	No	No	Yes	2.13E-03	-1.47	Down
ENSG00000141568	<i>FOXK2</i>	Yes	No	No	2.13E-03	-0.35	Down
ENSG00000126934	<i>MAP2K2</i>	Yes	No	No	2.13E-03	-0.83	Down
ENSG00000259352	<i>AC091117.1</i>	Yes	No	No	2.24E-03	-0.48	Down
ENSG00000259031	<i>AL845552.2</i>	Yes	No	No	2.25E-03	1.36	Up
ENSG00000197912	<i>SPG7</i>	Yes	No	No	2.39E-03	-0.44	Down
ENSG00000162706	<i>CADM3</i>	No	No	Yes	2.41E-03	-1.26	Down
ENSG00000110400	<i>NECTIN1</i>	Yes	Yes	No	2.60E-03	-1.03	Down
ENSG00000156453	<i>PCDH1</i>	Yes	No	No	2.64E-03	-0.97	Down
ENSG00000173114	<i>LRRN3</i>	No	No	Yes	2.65E-03	-1.57	Down
ENSG00000267255	<i>AC011498.3</i>	Yes	No	No	2.65E-03	-0.84	Down
ENSG00000198522	<i>GPN1</i>	Yes	No	No	2.67E-03	-0.19	Down
ENSG00000161647	<i>MPP3</i>	Yes	No	No	2.68E-03	-1.09	Down
ENSG00000241158	<i>ADAMTS9-AS1</i>	Yes	No	Yes	2.72E-03	-1.15	Down
ENSG00000233223	<i>AC016876.1</i>	Yes	No	No	2.72E-03	-0.61	Down
ENSG00000149657	<i>LSM14B</i>	Yes	No	No	2.76E-03	-0.64	Down
ENSG00000117281	<i>CD160</i>	Yes	No	No	2.86E-03	0.45	Up
ENSG00000010327	<i>STAB1</i>	No	Yes	No	2.88E-03	-0.62	Down
ENSG00000156885	<i>COX6A2</i>	Yes	No	No	2.97E-03	-0.59	Down
ENSG00000224597	<i>SVIL-AS1</i>	Yes	No	No	3.03E-03	0.31	Up
ENSG00000180354	<i>MTURN</i>	No	No	Yes	3.03E-03	0.96	Up
ENSG00000140987	<i>ZSCAN32</i>	Yes	No	No	3.04E-03	0.30	Up
ENSG00000175832	<i>ETV4</i>	No	No	Yes	3.06E-03	1.28	Up
ENSG00000142494	<i>SLC47A1</i>	Yes	No	No	3.07E-03	1.04	Up
ENSG00000113504	<i>SLC12A7</i>	Yes	No	No	3.08E-03	-0.39	Down
ENSG00000100243	<i>CYB5R3</i>	Yes	No	No	3.16E-03	-0.56	Down

ENSG00000171853	<i>TRAPPC12</i>	Yes	No	No	3.19E-03	-0.50	Down
ENSG00000158315	<i>RHBDL2</i>	Yes	No	No	3.23E-03	0.79	Up
ENSG00000166313	<i>APBB1</i>	Yes	No	No	3.23E-03	-0.63	Down
ENSG00000088256	<i>GNA11</i>	Yes	No	No	3.23E-03	-0.57	Down
ENSG00000011347	<i>SYT7</i>	Yes	No	No	3.30E-03	-0.96	Down
ENSG00000165175	<i>MID1IP1</i>	Yes	No	No	3.47E-03	-1.00	Down
ENSG00000265287	<i>AC005726.5</i>	Yes	No	No	3.55E-03	0.51	Up
ENSG00000168309	<i>FAM107A</i>	Yes	No	No	3.55E-03	-0.97	Down
ENSG00000117395	<i>EBNA1BP2</i>	Yes	No	No	3.57E-03	-0.78	Down
ENSG00000078098	<i>FAP</i>	No	No	Yes	3.57E-03	1.05	Up
ENSG00000011304	<i>PTBP1</i>	Yes	No	No	3.59E-03	-0.93	Down
ENSG00000078808	<i>SDF4</i>	Yes	No	No	3.61E-03	-0.54	Down
ENSG00000249669	<i>CARMN</i>	No	No	Yes	3.61E-03	-0.82	Down
ENSG00000174903	<i>RAB1B</i>	Yes	No	No	3.64E-03	-0.67	Down
ENSG00000185624	<i>P4HB</i>	Yes	No	No	3.65E-03	-0.52	Down
ENSG00000187189	<i>TSPYL4</i>	Yes	No	No	3.72E-03	-0.58	Down
ENSG00000128272	<i>ATF4</i>	Yes	No	No	3.74E-03	-0.77	Down
ENSG00000205189	<i>ZBTB10</i>	Yes	No	No	3.74E-03	0.50	Up
ENSG00000129351	<i>ILF3</i>	Yes	No	No	3.77E-03	-0.46	Down
ENSG00000023902	<i>PLEKHO1</i>	Yes	No	No	3.80E-03	-0.90	Down
ENSG00000100106	<i>TRIOBP</i>	Yes	No	No	3.83E-03	-0.51	Down
ENSG00000109107	<i>ALDOC</i>	Yes	No	No	3.84E-03	-0.82	Down
ENSG00000123144	<i>TRIR</i>	Yes	No	No	3.84E-03	-0.56	Down
ENSG00000258260	<i>AC073896.5</i>	Yes	No	No	3.97E-03	-0.42	Down
ENSG00000100296	<i>THOC5</i>	Yes	No	No	3.98E-03	-0.87	Down
ENSG00000162817	<i>C1orf115</i>	Yes	No	No	3.98E-03	-1.03	Down
ENSG00000165672	<i>PRDX3</i>	Yes	No	No	3.99E-03	-0.74	Down
ENSG00000249087	<i>ZNF436-AS1</i>	No	No	Yes	4.01E-03	0.90	Up
ENSG00000136848	<i>DAB2IP</i>	Yes	No	No	4.06E-03	-0.55	Down
ENSG00000097046	<i>CDC7</i>	Yes	No	No	4.10E-03	-1.29	Down
ENSG00000124795	<i>DEK</i>	Yes	No	No	4.17E-03	-0.56	Down
ENSG00000174038	<i>C9orf131</i>	Yes	No	No	4.17E-03	0.72	Up
ENSG00000166106	<i>ADAMTS15</i>	No	No	Yes	4.17E-03	-0.90	Down
ENSG00000274211	<i>SOCS7</i>	Yes	No	No	4.18E-03	0.81	Up
ENSG00000122176	<i>FMOD</i>	No	No	Yes	4.27E-03	1.12	Up
ENSG00000064225	<i>ST3GAL6</i>	Yes	No	No	4.32E-03	0.50	Up
ENSG00000151883	<i>PARP8</i>	Yes	No	No	4.38E-03	0.70	Up
ENSG00000113916	<i>BCL6</i>	Yes	No	No	4.48E-03	-0.85	Down
ENSG00000140553	<i>UNC45A</i>	Yes	No	No	4.49E-03	-0.21	Down
ENSG00000210100	<i>MT-TI</i>	Yes	No	No	4.68E-03	-0.66	Down

ENSG00000091527	<i>CDV3</i>	Yes	No	No	4.71E-03	-0.44	Down
ENSG00000275457	<i>AL117332.1</i>	Yes	No	No	4.88E-03	-0.36	Down
ENSG00000148484	<i>RSU1</i>	Yes	No	No	5.03E-03	-0.79	Down
ENSG00000034533	<i>ASTE1</i>	Yes	No	No	5.04E-03	0.18	Up
ENSG00000230532	<i>AC091133.1</i>	Yes	No	No	5.30E-03	-0.36	Down
ENSG00000142227	<i>EMP3</i>	Yes	No	No	5.45E-03	-0.85	Down
ENSG00000127585	<i>FBXL16</i>	No	No	Yes	5.48E-03	1.60	Up
ENSG00000152082	<i>MZT2B</i>	Yes	No	No	5.54E-03	-0.52	Down
ENSG00000122033	<i>MTIF3</i>	Yes	No	No	5.57E-03	-0.42	Down
ENSG00000174640	<i>SLCO2A1</i>	No	Yes	No	5.60E-03	-1.06	Down
ENSG00000197043	<i>ANXA6</i>	Yes	No	No	5.62E-03	-0.62	Down
ENSG00000146147	<i>MLIP</i>	Yes	No	No	5.73E-03	-0.72	Down
ENSG00000165487	<i>MICU2</i>	Yes	No	No	5.78E-03	-0.88	Down
ENSG00000090013	<i>BLVRB</i>	Yes	No	No	5.86E-03	-0.83	Down
ENSG00000079999	<i>KEAP1</i>	Yes	No	No	5.88E-03	-0.76	Down
ENSG00000257225	<i>AC079601.1</i>	Yes	No	Yes	5.99E-03	0.71	Up
ENSG00000182481	<i>KPNA2</i>	Yes	No	No	6.01E-03	-1.01	Down
ENSG00000268442	<i>AC073534.1</i>	Yes	No	No	6.01E-03	1.00	Up
ENSG00000124380	<i>SNRNP27</i>	Yes	No	No	6.02E-03	-0.72	Down
ENSG00000167723	<i>TRPV3</i>	No	No	Yes	6.02E-03	1.28	Up
ENSG00000228113	<i>AC003991.1</i>	Yes	No	No	6.02E-03	-0.61	Down
ENSG00000137959	<i>IFI44L</i>	No	No	Yes	6.03E-03	1.14	Up
ENSG00000067829	<i>IDH3G</i>	Yes	No	No	6.05E-03	-0.49	Down
ENSG00000068001	<i>HYAL2</i>	Yes	No	No	6.14E-03	-1.08	Down
ENSG00000232973	<i>CYP1B1-AS1</i>	Yes	No	No	6.14E-03	0.90	Up
ENSG00000168079	<i>SCARA5</i>	Yes	No	No	6.26E-03	-1.15	Down
ENSG00000175183	<i>CSRP2</i>	No	No	Yes	6.26E-03	-0.92	Down
ENSG00000210117	<i>MT-TW</i>	Yes	No	No	6.26E-03	-0.98	Down
ENSG00000022267	<i>FHL1</i>	Yes	No	No	6.29E-03	-0.67	Down
ENSG00000160685	<i>ZBTB7B</i>	Yes	No	No	6.40E-03	-0.79	Down
ENSG00000185201	<i>IFITM2</i>	No	No	No	6.57E-03	-1.03	Down
ENSG00000122378	<i>PRXL2A</i>	Yes	No	No	6.59E-03	-0.75	Down
ENSG00000222019	<i>URAHP</i>	Yes	No	No	6.68E-03	0.31	Up
ENSG00000109339	<i>MAPK10</i>	Yes	No	No	6.68E-03	0.34	Up
ENSG00000164236	<i>ANKRD33B</i>	No	Yes	No	6.69E-03	0.97	Up
ENSG00000134046	<i>MBD2</i>	Yes	No	No	6.78E-03	-0.80	Down
ENSG00000278367	<i>AL356652.1</i>	Yes	No	No	6.98E-03	-0.77	Down
ENSG00000011243	<i>AKAP8L</i>	Yes	No	No	7.18E-03	-0.45	Down
ENSG00000166794	<i>PPIB</i>	Yes	No	No	7.26E-03	-0.68	Down
ENSG00000257553	<i>AC034102.4</i>	Yes	No	No	7.28E-03	-0.31	Down

ENSG00000157653	<i>C9orf43</i>	Yes	No	No	7.33E-03	-0.42	Down
ENSG00000166676	<i>TVP23A</i>	Yes	No	No	7.37E-03	-0.22	Down
ENSG00000138080	<i>EMILIN1</i>	Yes	No	No	7.47E-03	-0.74	Down
ENSG00000099875	<i>MKNK2</i>	Yes	No	No	7.57E-03	-0.76	Down
ENSG00000278616	<i>BEND3P3</i>	Yes	No	No	7.59E-03	0.90	Up
ENSG00000164897	<i>TMUB1</i>	Yes	No	No	7.72E-03	-0.69	Down
ENSG00000173264	<i>GPR137</i>	Yes	No	No	7.79E-03	-0.35	Down
ENSG00000204463	<i>BAG6</i>	Yes	No	No	7.79E-03	-0.38	Down
ENSG00000161203	<i>AP2M1</i>	Yes	No	No	7.91E-03	-0.48	Down
ENSG00000164253	<i>WDR41</i>	Yes	No	No	7.91E-03	0.57	Up
ENSG00000100345	<i>MYH9</i>	Yes	No	No	8.11E-03	-0.48	Down
ENSG00000162551	<i>ALPL</i>	No	No	No	8.13E-03	-1.28	Down
ENSG00000075413	<i>MARK3</i>	Yes	No	No	8.31E-03	-0.72	Down
ENSG00000213889	<i>PPM1N</i>	Yes	No	No	8.34E-03	-0.43	Down
ENSG00000130725	<i>UBE2M</i>	Yes	No	No	8.34E-03	-0.53	Down
ENSG00000110925	<i>CSRNP2</i>	Yes	No	No	8.36E-03	0.33	Up
ENSG00000255422	<i>AP002954.1</i>	Yes	No	No	8.46E-03	0.59	Up
ENSG00000171552	<i>BCL2L1</i>	Yes	No	No	8.54E-03	-0.90	Down
ENSG00000116176	<i>TPSG1</i>	No	Yes	No	8.58E-03	-2.22	Down
ENSG00000179564	<i>LSMEM2</i>	Yes	No	No	8.66E-03	-0.37	Down
ENSG00000197586	<i>ENTPD6</i>	Yes	No	No	8.81E-03	-0.66	Down
ENSG00000151365	<i>THRSP</i>	No	No	No	8.81E-03	1.71	Up
ENSG00000142733	<i>MAP3K6</i>	No	No	No	8.95E-03	-0.91	Down
ENSG00000274386	<i>TMEM269</i>	Yes	No	No	9.18E-03	-0.50	Down
ENSG00000166173	<i>LARP6</i>	Yes	No	No	9.45E-03	-0.69	Down
ENSG00000064666	<i>CNN2</i>	Yes	No	No	9.51E-03	-0.92	Down
ENSG00000141198	<i>TOM1L1</i>	Yes	No	No	9.52E-03	0.31	Up
ENSG00000140941	<i>MAP1LC3B</i>	Yes	No	No	9.54E-03	-0.36	Down
ENSG00000101224	<i>CDC25B</i>	No	Yes	No	9.58E-03	-0.87	Down
ENSG00000155090	<i>KLF10</i>	Yes	No	No	9.58E-03	-1.19	Down
ENSG00000128309	<i>MPST</i>	Yes	No	No	9.75E-03	-0.94	Down
ENSG00000205726	<i>ITSN1</i>	Yes	No	No	9.78E-03	-0.35	Down
ENSG00000267064	<i>UXT-AS1</i>	Yes	No	No	9.91E-03	-0.38	Down
ENSG00000119979	<i>FAM45A</i>	Yes	No	No	1.00E-02	0.47	Up
ENSG00000187840	<i>EIF4EBP1</i>	Yes	No	No	1.00E-02	-1.16	Down
ENSG00000162878	<i>PKDCC</i>	Yes	No	No	1.03E-02	-0.78	Down
ENSG00000123143	<i>PKN1</i>	Yes	No	No	1.03E-02	-0.70	Down
ENSG00000158246	<i>TENT5B</i>	No	No	No	1.03E-02	-1.35	Down
ENSG00000170734	<i>POLH</i>	Yes	No	No	1.06E-02	0.70	Up
ENSG00000185033	<i>SEMA4B</i>	No	Yes	No	1.06E-02	-0.88	Down

ENSG00000115484	<i>CCT4</i>	Yes	No	No	1.06E-02	-0.61	Down
ENSG00000072274	<i>TFRC</i>	Yes	No	No	1.07E-02	-0.99	Down
ENSG00000145476	<i>CYP4V2</i>	Yes	No	No	1.08E-02	1.11	Up
ENSG00000135424	<i>ITGA7</i>	Yes	No	No	1.08E-02	-0.34	Down
ENSG00000105894	<i>PTN</i>	No	Yes	No	1.09E-02	0.84	Up
ENSG00000170889	<i>RPS9</i>	Yes	No	No	1.09E-02	-0.54	Down
ENSG00000235902	<i>AC108472.1</i>	No	No	Yes	1.09E-02	1.19	Up
ENSG00000102103	<i>PQBP1</i>	Yes	No	No	1.09E-02	-0.44	Down
ENSG00000160886	<i>LY6K</i>	Yes	No	No	1.12E-02	1.57	Up
ENSG00000106290	<i>TAF6</i>	Yes	No	No	1.13E-02	-0.23	Down
ENSG00000108679	<i>LGALS3BP</i>	Yes	No	No	1.13E-02	-0.72	Down
ENSG00000170584	<i>NUDCD2</i>	Yes	No	No	1.13E-02	-0.41	Down
ENSG00000172059	<i>KLF11</i>	Yes	No	No	1.13E-02	0.57	Up
ENSG00000135049	<i>AGTPBP1</i>	Yes	No	No	1.14E-02	-0.98	Down
ENSG00000153823	<i>PID1</i>	Yes	No	No	1.14E-02	-1.18	Down
ENSG00000186184	<i>POLR1D</i>	Yes	No	No	1.15E-02	-0.56	Down
ENSG00000113296	<i>THBS4</i>	Yes	No	No	1.18E-02	0.79	Up
ENSG00000169564	<i>PCBP1</i>	Yes	No	No	1.19E-02	-0.50	Down
ENSG00000183067	<i>IGSF5</i>	Yes	No	No	1.20E-02	-0.96	Down
ENSG00000160539	<i>PLPP7</i>	Yes	No	No	1.21E-02	-0.60	Down
ENSG00000087274	<i>ADD1</i>	Yes	No	No	1.21E-02	-0.49	Down
ENSG00000154928	<i>EPHB1</i>	Yes	No	No	1.22E-02	-0.89	Down
ENSG00000104812	<i>GYS1</i>	Yes	No	No	1.24E-02	-0.48	Down
ENSG00000185483	<i>ROR1</i>	No	No	Yes	1.24E-02	0.85	Up
ENSG00000177706	<i>FAM20C</i>	Yes	No	No	1.29E-02	-0.95	Down
ENSG00000234638	<i>AC053503.4</i>	Yes	No	No	1.30E-02	-0.36	Down
ENSG00000198355	<i>PIM3</i>	Yes	No	No	1.30E-02	-0.88	Down
ENSG00000231500	<i>RPS18</i>	Yes	No	No	1.33E-02	-0.39	Down
ENSG00000100234	<i>TIMP3</i>	No	Yes	No	1.33E-02	-0.62	Down
ENSG00000234745	<i>HLA-B</i>	Yes	No	No	1.36E-02	-0.48	Down
ENSG00000136770	<i>DNAJC1</i>	Yes	No	No	1.37E-02	-0.81	Down
ENSG00000185924	<i>RTN4RL1</i>	No	No	Yes	1.37E-02	-1.17	Down
ENSG00000142748	<i>FCN3</i>	No	No	Yes	1.38E-02	-1.57	Down
ENSG00000043591	<i>ADRB1</i>	Yes	No	No	1.38E-02	-0.90	Down
ENSG00000087495	<i>PHACTR3</i>	No	No	No	1.38E-02	-1.57	Down
ENSG00000273212	<i>AC000068.2</i>	Yes	No	No	1.39E-02	-0.40	Down
ENSG00000231389	<i>HLA-DPA1</i>	No	No	Yes	1.40E-02	0.58	Up
ENSG00000178105	<i>DDX10</i>	Yes	No	No	1.40E-02	-0.83	Down
ENSG00000063046	<i>EIF4B</i>	Yes	No	No	1.41E-02	0.41	Up
ENSG00000255468	<i>AP001107.9</i>	Yes	No	No	1.43E-02	-0.41	Down

ENSG00000114353	<i>GNAI2</i>	Yes	No	No	1.43E-02	-0.50	Down
ENSG00000163866	<i>SMIM12</i>	Yes	No	No	1.45E-02	-0.59	Down
ENSG00000072756	<i>TRNT1</i>	Yes	No	No	1.47E-02	0.23	Up
ENSG00000241111	<i>AC092040.1</i>	Yes	No	No	1.47E-02	0.96	Up
ENSG00000168487	<i>BMP1</i>	Yes	No	No	1.47E-02	-1.04	Down
ENSG00000102710	<i>SUPT20H</i>	Yes	No	No	1.48E-02	0.32	Up
ENSG00000074219	<i>TEAD2</i>	Yes	No	No	1.50E-02	-0.85	Down
ENSG00000254614	<i>AP003068.2</i>	Yes	No	No	1.50E-02	-0.58	Down
ENSG00000248668	<i>OXCT1-AS1</i>	Yes	No	No	1.52E-02	0.54	Up
ENSG00000225602	<i>MTOR-AS1</i>	Yes	No	No	1.53E-02	-0.27	Down
ENSG00000174059	<i>CD34</i>	Yes	No	No	1.53E-02	-0.69	Down
ENSG00000132205	<i>EMILIN2</i>	No	No	No	1.53E-02	-0.95	Down
ENSG00000250565	<i>ATP6V1E2</i>	Yes	No	No	1.54E-02	0.64	Up
ENSG00000196230	<i>TUBB</i>	Yes	No	No	1.54E-02	-0.59	Down
ENSG00000180900	<i>SCRIB</i>	Yes	No	No	1.54E-02	-0.57	Down
ENSG00000150995	<i>ITPR1</i>	Yes	No	No	1.55E-02	0.54	Up
ENSG00000151640	<i>DPYSL4</i>	Yes	No	No	1.58E-02	-0.80	Down
ENSG00000125753	<i>VASP</i>	Yes	No	No	1.61E-02	-0.65	Down
ENSG00000269934	<i>AL353593.2</i>	Yes	No	No	1.61E-02	0.37	Up
ENSG00000113749	<i>HRH2</i>	No	No	Yes	1.62E-02	-0.74	Down
ENSG00000163346	<i>PBXIP1</i>	Yes	No	No	1.62E-02	-0.45	Down
ENSG00000280239	<i>AC011498.7</i>	Yes	No	No	1.64E-02	0.24	Up
ENSG00000103316	<i>CRYM</i>	No	No	No	1.65E-02	0.88	Up
ENSG00000224934	<i>AL391684.1</i>	No	No	No	1.65E-02	0.73	Up
ENSG00000154133	<i>ROBO4</i>	Yes	No	No	1.65E-02	-0.83	Down
ENSG00000237781	<i>AL356356.1</i>	No	No	Yes	1.68E-02	-0.81	Down
ENSG00000198542	<i>ITGBL1</i>	No	No	No	1.68E-02	1.02	Up
ENSG00000065717	<i>TLE2</i>	Yes	No	No	1.72E-02	-1.17	Down
ENSG00000214193	<i>SH3D21</i>	Yes	No	No	1.72E-02	0.43	Up
ENSG00000197766	<i>CFD</i>	Yes	No	No	1.72E-02	-0.67	Down
ENSG00000210195	<i>MT-TT</i>	Yes	No	No	1.72E-02	-1.18	Down
ENSG00000254027	<i>AC009902.2</i>	Yes	No	No	1.72E-02	-0.52	Down
ENSG00000174429	<i>ABRA</i>	No	No	No	1.72E-02	-1.02	Down
ENSG00000001167	<i>NFYA</i>	Yes	No	No	1.73E-02	1.12	Up
ENSG00000138495	<i>COX17</i>	Yes	No	No	1.74E-02	-0.60	Down
ENSG00000172935	<i>MRGPRF</i>	No	No	No	1.76E-02	-0.98	Down
ENSG00000161011	<i>SQSTM1</i>	Yes	No	No	1.79E-02	0.26	Up
ENSG00000080824	<i>HSP90AA1</i>	Yes	No	No	1.81E-02	-0.55	Down
ENSG00000072952	<i>MRVI1</i>	No	No	Yes	1.82E-02	-0.77	Down
ENSG00000134460	<i>IL2RA</i>	No	No	Yes	1.82E-02	-1.48	Down



ENSG00000138587	<i>MNS1</i>	Yes	No	No	1.85E-02	1.38	Up
ENSG00000166816	<i>LDHD</i>	Yes	No	No	1.87E-02	-0.63	Down
ENSG00000104825	<i>NFKB1B</i>	Yes	No	No	1.88E-02	-0.76	Down
ENSG00000109062	<i>SLC9A3R1</i>	Yes	No	No	1.88E-02	-0.87	Down
ENSG00000185818	<i>NAT8L</i>	No	Yes	No	1.89E-02	1.16	Up
ENSG00000136717	<i>BIN1</i>	Yes	No	No	1.89E-02	-0.83	Down
ENSG00000162191	<i>UBXN1</i>	Yes	No	No	1.89E-02	-0.55	Down
ENSG00000138459	<i>SLC35A5</i>	Yes	No	No	1.89E-02	0.35	Up
ENSG00000134851	<i>TMEM165</i>	Yes	No	No	1.92E-02	-0.53	Down
ENSG00000182162	<i>P2RY8</i>	Yes	No	No	1.99E-02	1.07	Up
ENSG00000234438	<i>KBTBD13</i>	No	No	Yes	2.00E-02	-0.93	Down
ENSG00000245322	<i>AC097460.1</i>	Yes	No	No	2.00E-02	-0.43	Down
ENSG00000258092	<i>AC005841.1</i>	Yes	No	No	2.01E-02	-0.47	Down
ENSG00000196154	<i>S100A4</i>	No	No	No	2.03E-02	-1.09	Down
ENSG00000172795	<i>DCP2</i>	Yes	No	No	2.04E-02	0.83	Up
ENSG00000271806	<i>AL590822.2</i>	Yes	No	No	2.06E-02	-0.58	Down
ENSG00000131386	<i>GALNT15</i>	No	No	No	2.08E-02	-1.16	Down
ENSG00000255750	<i>AC022509.1</i>	No	No	No	2.12E-02	1.14	Up
ENSG00000119917	<i>IFIT3</i>	Yes	No	No	2.14E-02	0.92	Up
ENSG00000160075	<i>SSU72</i>	Yes	No	No	2.21E-02	-0.64	Down
ENSG00000066422	<i>ZBTB11</i>	Yes	No	No	2.24E-02	0.40	Up
ENSG00000084636	<i>COL16A1</i>	Yes	No	No	2.25E-02	0.64	Up
ENSG00000141101	<i>NOB1</i>	Yes	No	No	2.25E-02	-0.65	Down
ENSG00000159166	<i>LAD1</i>	Yes	No	No	2.36E-02	-1.60	Down
ENSG00000285938	<i>AC072022.2</i>	Yes	No	No	2.36E-02	-0.94	Down
ENSG00000235448	<i>LURAP1L-AS1</i>	Yes	No	No	2.40E-02	0.38	Up
ENSG00000139278	<i>GLIPR1</i>	Yes	No	No	2.41E-02	-0.17	Down
ENSG00000285966	<i>AC007686.4</i>	No	No	Yes	2.42E-02	-1.74	Down
ENSG00000198517	<i>MAFK</i>	No	No	No	2.48E-02	0.68	Up
ENSG00000250303	<i>AP002884.1</i>	No	No	Yes	2.49E-02	-0.95	Down
ENSG00000136279	<i>DBNL</i>	Yes	No	No	2.50E-02	-0.47	Down
ENSG00000143537	<i>ADAM15</i>	No	No	No	2.51E-02	-0.77	Down
ENSG00000134470	<i>IL15RA</i>	No	No	No	2.52E-02	-0.92	Down
ENSG00000167984	<i>NLRC3</i>	Yes	No	No	2.52E-02	0.41	Up
ENSG00000138079	<i>SLC3A1</i>	Yes	No	No	2.56E-02	0.43	Up
ENSG00000130382	<i>MLLT1</i>	Yes	No	No	2.57E-02	-0.64	Down
ENSG00000184371	<i>CSF1</i>	Yes	No	No	2.57E-02	-0.97	Down
ENSG00000136068	<i>FLNB</i>	Yes	No	No	2.61E-02	-0.52	Down
ENSG00000121039	<i>RDH10</i>	No	No	Yes	2.62E-02	-0.90	Down
ENSG00000286186	<i>AC018445.5</i>	Yes	No	No	2.63E-02	0.45	Up

ENSG00000162889	<i>MAPKAPK2</i>	Yes	No	No	2.64E-02	-0.35	Down
ENSG00000187185	<i>AC092118.1</i>	Yes	No	No	2.64E-02	0.58	Up
ENSG00000198176	<i>TFDP1</i>	Yes	No	No	2.65E-02	-0.91	Down
ENSG00000181104	<i>F2R</i>	No	No	Yes	2.68E-02	0.95	Up
ENSG00000136448	<i>NMT1</i>	Yes	No	No	2.74E-02	-0.33	Down
ENSG00000002586	<i>CD99</i>	Yes	No	No	2.75E-02	-0.61	Down
ENSG00000170458	<i>CD14</i>	No	No	No	2.75E-02	-0.88	Down
ENSG00000114120	<i>SLC25A36</i>	Yes	No	No	2.79E-02	0.65	Up
ENSG00000184949	<i>FAM227A</i>	Yes	No	No	2.79E-02	1.13	Up
ENSG00000124507	<i>PACSN1</i>	No	No	Yes	2.79E-02	-0.88	Down
ENSG00000119718	<i>EIF2B2</i>	Yes	No	No	2.80E-02	-0.34	Down
ENSG00000116786	<i>PLEKHM2</i>	Yes	No	No	2.81E-02	-0.58	Down
ENSG00000124702	<i>KLHDC3</i>	Yes	No	No	2.81E-02	-0.81	Down
ENSG00000188846	<i>RPL14</i>	Yes	No	No	2.81E-02	-0.45	Down
ENSG00000176463	<i>SLCO3A1</i>	Yes	No	No	2.85E-02	-0.56	Down
ENSG00000065621	<i>GSTO2</i>	Yes	No	No	2.88E-02	1.00	Up
ENSG00000260630	<i>SNAI3-AS1</i>	Yes	No	No	2.89E-02	-0.97	Down
ENSG00000137161	<i>CNPY3</i>	Yes	No	No	2.92E-02	-0.49	Down
ENSG00000182177	<i>ASB18</i>	No	No	Yes	2.95E-02	0.92	Up
ENSG00000211455	<i>STK38L</i>	Yes	No	No	2.95E-02	0.90	Up
ENSG00000204219	<i>TCEA3</i>	Yes	No	No	2.98E-02	-0.54	Down
ENSG00000140395	<i>WDR61</i>	Yes	No	No	3.01E-02	0.43	Up
ENSG00000137198	<i>GMPR</i>	Yes	No	No	3.06E-02	-0.75	Down
ENSG00000175130	<i>MARCKSL1</i>	Yes	No	No	3.11E-02	-0.93	Down
ENSG00000133275	<i>CSNK1G2</i>	Yes	No	No	3.22E-02	-0.62	Down
ENSG00000173156	<i>RHOD</i>	Yes	No	No	3.24E-02	-1.06	Down
ENSG00000179743	<i>AL450998.2</i>	Yes	No	No	3.25E-02	-0.64	Down
ENSG00000232295	<i>AL589935.1</i>	Yes	No	No	3.26E-02	0.63	Up
ENSG00000242396	<i>AC096536.2</i>	No	No	No	3.26E-02	-1.14	Down
ENSG00000099917	<i>MED15</i>	Yes	No	No	3.29E-02	-0.61	Down
ENSG00000101210	<i>EEF1A2</i>	Yes	No	No	3.31E-02	-0.41	Down
ENSG00000068831	<i>RASGRP2</i>	Yes	No	No	3.35E-02	-0.96	Down
ENSG00000099785	<i>MARCH2</i>	Yes	No	No	3.36E-02	-0.69	Down
ENSG00000092010	<i>PSME1</i>	Yes	No	No	3.37E-02	-0.57	Down
ENSG00000203883	<i>SOX18</i>	No	No	No	3.39E-02	-0.74	Down
ENSG00000137168	<i>PPIL1</i>	No	No	Yes	3.44E-02	-0.54	Down
ENSG00000132481	<i>AC087289.1</i>	No	No	No	3.44E-02	-0.74	Down
ENSG00000203865	<i>ATP1A1-AS1</i>	Yes	No	No	3.44E-02	-0.47	Down
ENSG00000130921	<i>C12orf65</i>	Yes	No	No	3.49E-02	-0.37	Down
ENSG00000183023	<i>SLC8A1</i>	Yes	No	No	3.54E-02	0.68	Up

ENSG00000104805	<i>NUCB1</i>	Yes	No	No	3.54E-02	-0.44	Down
ENSG00000100564	<i>PIGH</i>	Yes	No	No	3.54E-02	-0.48	Down
ENSG00000280064	<i>AC130304.1</i>	Yes	No	No	3.54E-02	0.76	Up
ENSG00000124251	<i>TP53TG5</i>	Yes	No	No	3.54E-02	-0.49	Down
ENSG00000162458	<i>FBLIM1</i>	No	No	No	3.54E-02	-0.78	Down
ENSG00000166441	<i>RPL27A</i>	Yes	No	No	3.55E-02	-0.23	Down
ENSG00000196470	<i>SIAH1</i>	Yes	No	No	3.59E-02	0.26	Up
ENSG00000204628	<i>RACK1</i>	Yes	No	No	3.60E-02	-0.31	Down
ENSG00000170515	<i>PA2G4</i>	Yes	No	No	3.60E-02	-0.55	Down
ENSG00000106809	<i>OGN</i>	No	No	No	3.61E-02	1.18	Up
ENSG00000130726	<i>TRIM28</i>	Yes	No	No	3.68E-02	-0.69	Down
ENSG00000268756	<i>AC104534.1</i>	Yes	No	No	3.73E-02	0.78	Up
ENSG00000167994	<i>RAB3IL1</i>	Yes	No	No	3.76E-02	-0.96	Down
ENSG00000196923	<i>PDLIM7</i>	No	No	No	3.76E-02	-0.98	Down
ENSG00000064726	<i>BTBD1</i>	Yes	No	No	3.78E-02	0.43	Up
ENSG00000131469	<i>RPL27</i>	Yes	No	No	3.79E-02	-0.66	Down
ENSG00000108774	<i>RAB5C</i>	Yes	No	No	3.80E-02	-0.78	Down
ENSG00000127774	<i>EMC6</i>	Yes	No	No	3.83E-02	-0.60	Down
ENSG00000132359	<i>RAP1GAP2</i>	Yes	No	No	3.83E-02	-0.77	Down
ENSG00000267801	<i>AC087289.6</i>	Yes	No	No	3.90E-02	-0.70	Down
ENSG00000116106	<i>EPHA4</i>	Yes	No	No	3.92E-02	0.66	Up
ENSG00000167797	<i>CDK2AP2</i>	No	No	No	3.94E-02	-0.81	Down
ENSG00000125656	<i>CLPP</i>	Yes	No	No	3.94E-02	-0.91	Down
ENSG00000221968	<i>FADS3</i>	Yes	No	No	3.94E-02	-0.61	Down
ENSG00000027697	<i>IFNGR1</i>	Yes	No	No	3.96E-02	-0.38	Down
ENSG00000245330	<i>AP005717.1</i>	Yes	No	No	3.98E-02	-0.41	Down
ENSG00000279086	<i>AC073130.3</i>	Yes	No	No	3.98E-02	-0.62	Down
ENSG00000160801	<i>PTH1R</i>	No	No	No	4.02E-02	-0.87	Down
ENSG00000147155	<i>EBP</i>	No	No	No	4.05E-02	-1.18	Down
ENSG00000160789	<i>LMNA</i>	Yes	No	No	4.06E-02	-0.47	Down
ENSG00000139567	<i>ACVRL1</i>	Yes	No	No	4.08E-02	-0.73	Down
ENSG00000186814	<i>ZSCAN30</i>	Yes	No	No	4.12E-02	0.45	Up
ENSG00000101342	<i>TLDC2</i>	Yes	No	No	4.13E-02	-0.69	Down
ENSG00000177679	<i>SRRM3</i>	No	No	No	4.18E-02	-1.07	Down
ENSG00000106823	<i>ECM2</i>	No	No	No	4.22E-02	1.00	Up
ENSG00000149596	<i>JPH2</i>	Yes	No	No	4.24E-02	-0.51	Down
ENSG00000177156	<i>TALDO1</i>	Yes	No	No	4.27E-02	-0.60	Down
ENSG00000269982	<i>AC018809.2</i>	Yes	No	No	4.32E-02	-0.19	Down
ENSG00000070540	<i>WIPI1</i>	Yes	No	No	4.32E-02	0.37	Up
ENSG00000173272	<i>MZT2A</i>	No	No	No	4.33E-02	-0.66	Down

ENSG00000227051	<i>C14orf132</i>	No	No	Yes	4.34E-02	0.91	Up
ENSG00000140988	<i>RPS2</i>	Yes	No	No	4.35E-02	-0.71	Down
ENSG00000187051	<i>RPS19BP1</i>	Yes	No	No	4.39E-02	-0.56	Down
ENSG00000063177	<i>RPL18</i>	Yes	No	No	4.40E-02	-0.51	Down
ENSG00000106819	<i>ASPN</i>	No	No	No	4.40E-02	1.27	Up
ENSG00000159884	<i>CCDC107</i>	Yes	No	No	4.40E-02	-0.61	Down
ENSG00000135624	<i>CCT7</i>	Yes	No	No	4.42E-02	-0.53	Down
ENSG00000101400	<i>SNTA1</i>	Yes	No	No	4.44E-02	-0.57	Down
ENSG00000110987	<i>BCL7A</i>	Yes	No	No	4.50E-02	0.44	Up
ENSG00000141404	<i>GNAL</i>	Yes	No	No	4.51E-02	0.11	Up
ENSG00000182718	<i>ANXA2</i>	Yes	No	No	4.55E-02	-0.96	Down
ENSG00000108518	<i>PFN1</i>	Yes	No	No	4.58E-02	-0.54	Down
ENSG00000235505	<i>CASP17P</i>	Yes	No	No	4.58E-02	1.23	Up
ENSG00000116717	<i>GADD45A</i>	Yes	No	No	4.63E-02	0.71	Up
ENSG00000165886	<i>UBTD1</i>	Yes	No	No	4.66E-02	-0.87	Down
ENSG00000100523	<i>DDHD1</i>	Yes	No	No	4.67E-02	0.70	Up
ENSG00000130309	<i>COLGALT1</i>	Yes	No	No	4.71E-02	-0.82	Down
ENSG00000180999	<i>C1orf105</i>	No	No	No	4.76E-02	-1.41	Down
ENSG00000198663	<i>C6orf89</i>	Yes	No	No	4.77E-02	-0.37	Down
ENSG00000148175	<i>STOM</i>	Yes	No	No	4.79E-02	-0.56	Down
ENSG00000170935	<i>NCBP2L</i>	Yes	No	No	4.81E-02	0.61	Up
ENSG00000149554	<i>CHEK1</i>	Yes	No	No	4.82E-02	0.62	Up
ENSG00000172348	<i>RCAN2</i>	Yes	No	No	4.84E-02	-0.47	Down
ENSG00000175287	<i>PHYHD1</i>	No	No	No	4.85E-02	-0.87	Down
ENSG00000279296	<i>PRAL</i>	No	No	No	4.88E-02	0.50	Up
ENSG00000170801	<i>HTRA3</i>	Yes	No	No	4.89E-02	-0.55	Down
ENSG00000138622	<i>HCN4</i>	Yes	No	No	4.90E-02	-1.16	Down
ENSG00000187955	<i>COL14A1</i>	No	No	No	4.90E-02	0.93	Up
ENSG00000055070	<i>SZRD1</i>	Yes	No	No	4.91E-02	-0.43	Down
ENSG00000134684	<i>YARS</i>	No	No	No	4.91E-02	-0.68	Down
ENSG00000132938	<i>MTUS2</i>	Yes	No	No	4.91E-02	-0.58	Down
ENSG00000248636	<i>AC002070.1</i>	Yes	No	No	4.93E-02	0.73	Up
ENSG00000228804	<i>AC072022.1</i>	No	No	No	4.96E-02	-0.71	Down
ENSG00000087074	<i>PPP1R15A</i>	Yes	No	No	4.97E-02	0.57	Up
ENSG00000137492	<i>THAP12</i>	Yes	No	No	4.97E-02	0.98	Up
ENSG00000186185	<i>KIF18B</i>	Yes	No	No	4.99E-02	-2.00	Down

1: Indicates if the gene was differentially expressed in each individual study; 2: FDR-adjusted p-value from meta-analysis, "E" represents "times ten raised to the power of"; 3: Average of log<sub>2</sub>FC from individual studies; 4: 'Up' or 'Down' indicates if the gene was upregulated or downregulated. The genes were sorted based on the adjusted p-values.

**Supplementary Table S2. Differentially expressed upstream regulators and their target genes.**

Upstream Regulator	Log <sub>2</sub> FC	Molecule Type	Activation z-score <sup>1</sup>	p-value of overlap <sup>2</sup>	Target Molecules in Dataset
<i>SMARCA4</i>	-0.51	transcription regulator	-3.00	3.51E-07	<i>ACTA2, ADAM15, BIN1, C1orf105, C1orf54, CKM, CSF1, CSNK1G2, CTSB, DES, ECM2, EMP3, EPHA4, FADS3, FBLIM1, FLNB, GADD45A, GYS1, HLA-B, IER3, IFITM2, IL15RA, ITGA7, ITPR1, LMNA, LUM, MTND2, MYL4, NECTIN1, PCDH1, PLEKHO1, PLIN2, RAD1, RHBDL2, SLC11A1, SMARCA4, STARD10, TGFB2, TNNT2, TPM1, TUBA3C/TUBA3D, TUBB, ZNF503</i>
<i>ERBB2</i>	-0.58	kinase	-0.86	3.58E-07	<i>ACTA2, ACTB, ALDOC, ANXA2, ATF4, BCL2L1, BMP1, BMP7, CD34, CDC25B, CDC7, CHEK1, COL4A1, COL6A1, COL6A3, CTSB, CUL3, DAG1, DDX10, EBP, EIF4EBP1, EMP3, ERBB2, ETV4, F2R, FLOT2, GPX3, GTF3A, IGF1R, KLHDC3, LAMP1, LUM, MKNK2, MME, MYL9, NID1, PLIN2, POLR1D, PSMC3, RHOD, S100A4, SLC2A1, ST3GAL6, STAT3, TCEAL9, THBS4, TIMP3, TPM1, USF2</i>
<i>TFRC</i>	-0.99	transporter	0.19	5.77E-06	<i>ANXA2, ATF4, F13A1, FAM20C, FTH1, GADD45A, GPX3, PPP1R15A, PTN, SLC2A1, TGFB2, UBE2E1</i>
<i>THBS4</i>	0.79	other	-1.77	1.74E-04	<i>ATF4, CALR, CRELD2, HYOU1, P4HB, TGFB2</i>
<i>IGF1R</i>	0.62	transmembrane receptor	-2.00	4.86E-04	<i>ACTA2, BCL2L1, CD37, COL4A1, COL4A2, COX6A2, DES, FLNC, FTH1, IGF1R, NDUFB4, RPL37A, RPS24, S100A4, SCARA5, STAT3, TFDP1, TIMP3, TPO</i>
<i>PMP22</i>	-0.86	other		7.98E-04	<i>EMP3, FLOT1, NGFR, PMP22</i>
<i>ATF4</i>	-0.77	transcription regulator	-1.09	1.03E-03	<i>ATF4, CALR, EIF4EBP1, GADD45A, GYS1, HYOU1, MAP1LC3B, MID1IP1, NUPR1, PMP22, PPP1R15A, STAT3, TGFB2</i>
<i>ATG7</i>	0.26	enzyme	0.32	1.39E-03	<i>ACTA2, ATF4, CTSB, LAMP1, MARCO, S100A4, SLC2A1, SQSTM1</i>
<i>ACTG1</i>	-0.73	other		1.89E-03	<i>ACTA2, ACTB, CNN1</i>
<i>DAG1</i>	-0.70	transmembrane receptor	-1.00	2.06E-03	<i>DAG1, ITGA7, SLC2A1, SNTA1</i>
<i>PDCD5</i>	-0.99	other		2.57E-03	<i>ATP2A2, FOXP3</i>
<i>PDGFRB</i>	-0.97	kinase		5.90E-03	<i>ACTA2, PDGFRB, STAT3</i>
<i>PFN1</i>	-0.54	other		8.23E-03	<i>ANXA2, SQSTM1</i>
<i>S100A9</i>	-2.13	other	0.65	1.20E-02	<i>ADAMTS4, ALPL, C1QB, C3, COX6A2, FBLIM1, FURIN, NGFR, PHLDA1, S100A9, SOCS7</i>
<i>CLPP</i>	-0.91	peptidase	2.45	1.24E-02	<i>IDH2, IDH3G, OGDH, PRDX3, SLC25A4, TALDO1</i>

<i>NCAM1</i>	-0.61	other		1.29E-02	<i>CALR, NCAM1, NFKB1B</i>
<i>NFYA</i>	1.12	transcription regulator		1.46E-02	<i>CALR, CDC25B, FTH1, GADD45A, PDGFRB, PPP1R15A, THRSP</i>
<i>TGFB2</i>	1.13	growth factor	-0.73	1.57E-02	<i>ACTA2, ASPN, CNN1, DES, FMOD, FURIN, PDGFRB, TGFB2</i>
<i>PTP4A3</i>	-0.94	phosphatase		1.75E-02	<i>HSP90AA1, IGF1R, PCBP1</i>
<i>DNMT1</i>	-0.87	enzyme		1.83E-02	<i>ACTB, CMTM5, DNMT1, FOXP3, PTN, SFRP4, TIMP3</i>
<i>PPP1R15A</i>	0.57	other		2.02E-02	<i>ATF4, GADD45A, MAP1LC3B</i>
<i>ETV4</i>	1.28	transcription regulator		2.11E-02	<i>ACTA2, CAV1, ERBB2, ETV4</i>
<i>EIF4G1</i>	-0.80	translation regulator		2.61E-02	<i>BCL2L1, CHEK1, GADD45A</i>
<i>TPO</i>	-1.15	enzyme		2.96E-02	<i>FOXP3</i>
<i>MPP3</i>	-1.09	kinase		2.96E-02	<i>NECTIN1</i>
<i>CFD</i>	-0.68	peptidase		2.96E-02	<i>C3</i>
<i>TNNC1</i>	-0.57	other		2.96E-02	<i>SLC8A1</i>
<i>JPH2</i>	-0.51	enzyme		2.96E-02	<i>SLC8A1</i>
<i>EIF2B2</i>	-0.34	other		2.96E-02	<i>ACTB</i>
<i>FMOD</i>	1.13	other		2.96E-02	<i>LUM</i>
<i>FTH1</i>	-0.72	enzyme		3.36E-02	<i>FTH1, TFRC</i>
<i>LY6K</i>	1.57	other		3.36E-02	<i>CD34, LY6K</i>
<i>HIST1H1C</i>	-0.80	other		4.03E-02	<i>ACTB, IER3</i>
<i>SGPP2</i>	-1.46	phosphatase		4.04E-02	<i>ATF4, HSP90AA1, HSPB7</i>
<i>CTSB</i>	-0.50	peptidase		4.45E-02	<i>ACTA2, BCL2L1, CTSB</i>
<i>MBD2</i>	-0.80	transcription regulator	0.15	4.56E-02	<i>ACTB, ADAM15, FOXP3, NUPR1, RNASE1</i>
<i>STK40</i>	-0.71	kinase		4.66E-02	<i>C1QA, C1QB, CKM, DES</i>
<i>TAF6</i>	-0.23	transcription regulator		4.88E-02	<i>GADD45A, SRSF4, UNC45A</i>

1: Positive and negative z-scores are considered as activated and inhibited, respectively; 2: p-value < 0.05 reflects a significant association between the upstream regulator and its targeted genes, "E" represents "times ten raised to the power of". The genes were sorted based on the p-value of overlap.

**Supplementary Table S3. Significant canonical pathways with absolute z-score > 2.0 and the involved genes.**

<b>Ingenuity Canonical Pathways</b>	<b>-log(p)<sup>1</sup></b>	<b>z-score<sup>2</sup></b>	<b>genes</b>
EIF2 Signaling	12.4	-2.83	<i>ACTA2, ACTB, ACTC1, ATF4, EIF2B2, EIF4G1, IGF1R, MAP2K2, PPP1R15A, PTBP1, RPL14, RPL18, RPL23, RPL26, RPL27, RPL27A, RPL35, RPL37A, RPL6, RPL8, RPLP0, RPLP1, RPLP2, RPS12, RPS18, RPS2, RPS24, RPS25, RPS4X, RPS5, RPS9</i>
RhoA Signaling	4.27	-2.89	<i>ACTA2, ACTB, ACTC1, ACTG1, CDC42EP4, IGF1R, MYL3, MYL4, MYL7, MYL9, PFN1, PKN1, PLXNA1</i>
Integrin Signaling	3.8	-3.15	<i>ACTA2, ACTB, ACTC1, ACTG1, CAPN1, CAPN10, CAPNS1, CAV1, ITGA7, MAP2K2, MYL7, MYL9, PARVB, PFN1, RAPGEF1, RHOD, VASP</i>
Actin Cytoskeleton Signaling	3.68	-3.21	<i>ACTA2, ACTB, ACTC1, ACTG1, CD14, F2R, FGF14, FLNA, MAP2K2, MYH6, MYH9, MYL3, MYL4, MYL7, MYL9, PFN1, TMSB10/TMSB4X</i>
Cardiac Hypertrophy Signaling (Enhanced)	3.39	-2.27	<i>ADCY3, ADRB1, ATP2A2, CACNA1D, EIF2B2, EIF4EBP1, FGF14, FICD, GDE1, GNA11, GNAI2, HSPB7, IGF1R, IL15RA, IL2RA, ITPR1, MAP2K2, MAP3K6, MAPK10, MAPKAPK2, MKNK2, NFATC4, NGFR, NKX2-5, PKN1, PLCE1, STAT3, TGFB2</i>
Complement System	3.23	-2.45	<i>C1QA, C1QB, C1QC, C1R, C3, CFD</i>
Signaling by Rho Family GTPases	3.16	-3.21	<i>ACTA2, ACTB, ACTC1, ACTG1, CDC42EP4, DES, GNA11, GNAI2, GNAL, MAP2K2, MAPK10, MYL3, MYL4, MYL7, MYL9, PKN1, RHOD</i>
Regulation of Actin-based Motility by Rho	2.82	-3.00	<i>ACTA2, ACTB, ACTC1, MYL3, MYL4, MYL7, MYL9, PFN1, RHOD</i>
RhoGDI Signaling	2.23	3.00	<i>ACTA2, ACTB, ACTC1, ACTG1, GNA11, GNAI2, GNAL, MYL3, MYL4, MYL7, MYL9, RHOD</i>
VEGF Signaling	1.6	-2.45	<i>ACTA2, ACTB, ACTC1, ACTG1, BCL2L1, EIF2B2, MAP2K2</i>
Ephrin Receptor Signaling	1.45	-2.12	<i>ATF4, EPHA4, EPHB1, GNA11, GNAI2, GNAL, ITSN1, MAP2K2, RAPGEF1, STAT3</i>

1: -log(p) > 1.3 reflects a significant association between the canonical pathway and its involved genes; 2: Positive and negative z-scores are considered as activated and inhibited, respectively. The pathways were sorted based on the -log(p).