

Table S3. Differentially expressed mRNAs in OVM

Gene name	Regulation	log2 FC	p Value
ABCA1	Up	1.17	1.77E-02
ABCA13	Up	6.12	3.26E-02
ABCA4	Up	1.95	4.47E-02
ABCA7	Up	3.03	3.89E-16
ABCB1	Up	1.33	6.76E-03
ABCB10	Down	-1.04	7.85E-04
ABCB11	Up	5.89	8.38E-03
ABCC1	Up	1.37	2.23E-04
ABCC4	Up	1.05	1.94E-03
ABCC5	Up	1.03	8.51E-03
ABCG1	Up	1.68	5.18E-05
ABCG2	Up	1.79	1.55E-04
ABHD15	Up	1.24	1.72E-03
ABHD3	Up	1.37	9.64E-04
ABI3	Up	1.28	1.89E-03
ABLIM1	Up	1.37	6.32E-07
ABRA	Down	-4.84	7.48E-06
ABRACL	Up	1.93	1.71E-04
ABTB2	Down	-1.2	8.29E-03
ACAP1	Up	3.43	1.82E-04
ACAT1	Down	-1.23	5.84E-05
ACOT1	Down	-1.33	1.53E-02
ACOT2	Down	-1.02	5.99E-03
ACOT9	Down	-1	9.70E-04
ACOXL	Up	4.39	2.07E-02
ACP2	Up	1.19	1.06E-02
ACP5	Up	6.03	4.18E-02
ACRBP	Up	2.11	1.45E-02
ACSL5	Up	1.25	9.07E-03
ACSM5	Down	-1.52	1.23E-02
ACTA1	Down	-5.71	3.78E-13
ACTA2	Down	-3.84	4.07E-38
ACTB	Down	-1.99	4.67E-13
ACTC1	Down	-3.45	4.96E-07
ACTG2	Down	-6.02	1.03E-63
ACTN1	Down	-2.4	9.59E-18
ACTN4	Down	-1.94	2.11E-12
ACTR3C	Up	3.2	5.99E-03
ACVRL1	Up	1.11	1.85E-04
ADA2	Up	3.02	4.75E-18
ADAM12	Up	7.1	1.70E-07
ADAM28	Up	2.32	7.85E-09
ADAM33	Down	-1.49	6.73E-06
ADAM8	Up	2.32	5.70E-07

ADAMDEC1	Up	Inf	5.51E-06
ADAMTS13	Up	1.14	2.32E-02
ADAMTS14	Up	6.23	2.08E-05
ADAMTS18	Up	4	1.70E-03
ADAMTS2	Up	2.85	6.56E-03
ADAMTS4	Up	2.81	5.45E-05
ADAMTS5	Up	2.31	1.12E-02
ADAMTS8	Down	-2.36	1.51E-03
ADAMTS9	Up	2.42	3.18E-02
ADAMTSL1	Up	2.92	2.05E-04
ADAMTSL5	Down	-2.83	3.10E-09
ADAP2	Up	1.56	6.54E-03
ADARB1	Down	-1.65	7.94E-08
ADCY5	Down	-3.86	9.79E-36
ADD3	Up	1.81	1.53E-03
ADGRD1	Down	-1.46	2.28E-04
ADGRE2	Up	2.65	9.06E-08
ADGRE5	Down	-2.47	1.11E-08
ADGRG1	Up	1.53	4.55E-03
ADGRG2	Up	2.47	1.60E-02
ADGRG3	Up	2.25	1.07E-02
ADGRG5	Up	3.45	1.58E-03
ADGRG6	Up	2	3.62E-03
ADGRL3	Down	-4.59	6.39E-48
ADH5	Down	-1.7	3.55E-09
ADIRF	Down	-2.19	1.92E-12
ADM2	Up	5.09	2.35E-02
ADORA2A	Up	1.52	2.38E-03
ADORA2B	Up	4.86	7.66E-06
ADRA1B	Down	-2.12	5.88E-05
ADRA2B	Down	-3.8	1.66E-27
ADRA2C	Down	-3.76	5.76E-30
ADSSL1	Down	-2	1.79E-06
ADTRP	Up	3.91	1.03E-03
AEBP1	Down	-1.03	1.51E-04
AEBP2	Down	-1.16	6.38E-05
AFAP1L2	Up	1.16	5.29E-03
AFDN	Up	1.01	9.53E-03
AFF3	Down	-1.09	1.11E-03
AGAP11	Down	-1.67	4.89E-07
AGBL5	Down	-1.29	4.47E-05
AGER	Up	1.53	7.68E-04
AGL	Down	-1.99	4.18E-12
AGMAT	Up	2.94	4.12E-03
AGTR1	Down	-1.28	1.01E-03
AHNAK2	Down	-2.93	1.10E-23

AIDA	Down	-1.03	7.21E-04
AIF1	Up	2.2	3.68E-03
AIFM2	Down	-1.01	6.24E-03
AIFM3	Up	2.88	6.50E-03
AIM2	Up	1.97	1.04E-02
AJAP1	Up	1.51	1.46E-02
AJM1	Down	-3.26	1.30E-15
AK4	Down	-2.26	1.03E-14
AKAP1	Down	-2.12	6.95E-13
AKAP12	Down	-1.32	3.20E-05
AKAP5	Down	-1.35	5.69E-03
AKAP6	Down	-3.75	5.02E-35
AKT3	Down	-1.36	1.52E-06
AKTIP	Down	-1.15	2.58E-04
ALAS2	Up	3.23	1.29E-02
ALDH1A1	Down	-1.31	3.47E-06
ALDH1B1	Down	-5.12	1.96E-57
ALDH2	Down	-1.31	5.50E-06
ALDH4A1	Down	-1.31	4.45E-04
ALDOA	Down	-1.53	2.28E-08
ALDOC	Down	-1.02	1.98E-02
ALKAL1	Down	-4.34	2.18E-03
ALOX15B	Up	Inf	5.56E-03
ALOX5	Up	1.76	1.12E-03
ALPK2	Up	6.6	5.21E-09
ALPK3	Down	-2.08	2.21E-10
ALPL	Up	6.69	4.30E-02
ALX1	Up	7.48	2.26E-09
ALX3	Up	Inf	1.00E-03
ALX4	Up	5.91	4.03E-31
AMER1	Down	-1.2	2.17E-04
AMIGO2	Down	-2.87	1.41E-19
AMN	Up	4.64	1.51E-02
AMOTL2	Down	-1.12	4.43E-04
AMPD2	Up	1.51	2.07E-03
AMPD3	Up	2.93	2.14E-11
AMPH	Down	-1.09	3.36E-03
ANGPT2	Up	1.73	2.17E-03
ANGPTL1	Down	-1.43	5.79E-04
ANK2	Down	-1.3	6.48E-06
ANKDD1A	Down	-2.31	1.86E-10
ANKDD1B	Up	1.57	2.47E-02
ANKEF1	Up	1.28	3.52E-02
ANKRD1	Down	-1.79	4.96E-02
ANKRD22	Up	4.64	4.63E-02
ANKRD24	Down	-1.28	2.63E-02

ANKRD28	Up	1.21	2.40E-05
ANKRD34A	Down	-1.36	3.80E-02
ANKRD34C	Down	-2.53	8.99E-04
ANKRD36B	Up	1.02	3.85E-02
ANKRD40	Down	-1.39	1.50E-06
ANKRD50	Down	-2.1	5.08E-14
ANKRD55	Up	4.27	4.05E-02
ANKRD6	Down	-1.07	8.25E-04
ANKS1B	Down	-2.46	1.83E-15
ANO3	Down	-4.16	2.09E-06
ANO9	Up	5.1	6.24E-04
ANOS1	Up	1.08	8.13E-03
ANPEP	Up	3.93	1.78E-06
ANXA11	Down	-1.13	4.94E-05
ANXA6	Down	-1.18	1.25E-05
AOAH	Up	3.17	1.05E-05
AOC3	Down	-3.25	2.39E-28
AP1G2	Up	1.24	2.81E-04
AP1S1	Up	1.05	1.63E-02
AP1S3	Up	2.26	5.84E-03
APBA2	Up	4.28	2.10E-04
APBB1	Down	-1.2	9.07E-05
APBB1IP	Up	2.93	2.54E-10
APOB	Down	-2.08	4.75E-03
APOBEC3D	Up	1.96	6.34E-04
APOBEC3F	Up	1.13	5.64E-03
APOBEC3G	Up	1.14	2.01E-02
APOBR	Up	3.89	1.93E-03
APOC1	Up	4.98	7.07E-04
APOE	Up	4.52	1.11E-04
APOL4	Up	2.98	2.40E-03
APOLD1	Up	2.23	1.02E-02
APOOL	Down	-1.42	1.71E-06
AQP5	Up	12.88	1.96E-02
AR	Down	-1.22	4.97E-05
ARAP2	Up	2.15	1.08E-02
AREG	Up	4.52	3.19E-03
ARHGAP1	Down	-1.92	9.13E-12
ARHGAP10	Down	-1.52	1.52E-07
ARHGAP11A	Up	1.36	3.22E-02
ARHGAP11B	Up	2.11	1.05E-02
ARHGAP18	Up	2.18	1.44E-04
ARHGAP25	Up	1.99	2.55E-06
ARHGAP26	Up	1.58	6.07E-05
ARHGAP27	Up	1.59	7.58E-07
ARHGAP28	Down	-1.34	4.93E-06

ARHGAP30	Up	2.61	2.93E-07
ARHGAP39	Up	1.45	2.16E-03
ARHGAP4	Up	1.79	1.15E-05
ARHGAP45	Up	2.82	1.32E-08
ARHGAP6	Down	-1.31	3.67E-05
ARHGAP9	Up	2.82	1.28E-08
ARHGDIB	Up	1.01	1.67E-03
ARHGEF1	Up	1.12	8.85E-05
ARHGEF10L	Down	-2.01	1.44E-12
ARHGEF17	Down	-1.29	3.01E-06
ARHGEF19	Up	3.37	1.89E-02
ARHGEF25	Down	-2.05	3.62E-12
ARHGEF26	Down	-1.13	3.77E-04
ARHGEF9	Down	-2.03	3.02E-12
ARID3A	Up	1.63	2.55E-04
ARID5A	Down	-1.82	6.07E-06
ARID5B	Down	-1.12	1.05E-04
ARL11	Up	2.54	2.37E-03
ARL15	Up	1.04	7.97E-04
ARL4A	Up	1.68	1.16E-04
ARL4C	Up	4.17	7.02E-19
ARMC4	Down	-2.58	1.15E-07
ARMH4	Up	1.14	2.35E-04
ARNT2	Down	-2.75	1.88E-16
ARNTL	Up	1.39	1.11E-03
ARPC1B	Up	1.34	2.17E-03
ARPP19	Down	-1.03	1.78E-04
ARPP21	Up	4.73	4.91E-02
ARRB2	Up	1.31	6.89E-04
ARRDC1	Up	1.21	7.86E-04
ARRDC3	Up	1.63	2.71E-02
ARRDC5	Up	3.27	6.62E-03
ARSE	Up	2.21	2.50E-02
ART4	Down	-2.59	5.21E-11
ARVCF	Down	-1.48	5.41E-07
ASAP3	Up	1.19	1.15E-04
ASB16	Down	-3.88	1.54E-07
ASB2	Down	-4.02	1.35E-17
ASF1B	Up	2.98	1.39E-02
ASIC2	Up	4.98	1.85E-02
ASPG	Down	-2.03	2.08E-03
ASPHD1	Up	4.82	9.54E-03
ASPHD2	Up	2.97	2.30E-03
ASPM	Up	4.9	1.17E-03
ASRGL1	Up	1.33	4.99E-02
ATAD5	Up	1.08	3.34E-02

ATF7IP2	Up	1.34	3.59E-03
ATG16L2	Up	1.08	4.33E-04
ATL3	Down	-1.66	1.80E-09
ATP12A	Down	#NAME?	1.26E-03
ATP1A2	Down	-2.16	2.43E-13
ATP2B4	Down	-1.61	7.07E-09
ATP6V0A4	Up	Inf	2.35E-02
ATP6V0D2	Up	7.21	3.27E-02
ATP6V1A	Up	1.02	6.43E-04
ATP8A1	Up	1.08	8.21E-03
ATP8A2	Up	4.18	7.01E-04
ATP8B1	Down	-1.18	2.26E-05
ATP8B3	Up	2.81	2.20E-03
ATRNL1	Up	4.5	8.39E-03
AURKB	Up	3.84	2.69E-02
AUTS2	Up	1.88	2.36E-03
AVEN	Down	-1.12	3.52E-03
AVIL	Up	1.67	7.06E-05
AVPI1	Down	-1.26	4.79E-03
AXL	Down	-1.5	1.09E-07
AZGP1	Up	11.78	2.27E-02
B3GALNT2	Down	-1.97	1.32E-11
B3GAT2	Down	-3.46	2.61E-02
B3GNT5	Up	2.97	2.64E-03
B3GNT7	Up	2.34	1.38E-02
B4GALNT4	Up	2	3.54E-02
B4GALT6	Up	1.28	4.12E-03
BACH2	Up	1.43	4.01E-03
BAG2	Down	-2.73	2.12E-18
BAG3	Down	-1.1	2.79E-04
BANK1	Up	3.72	8.87E-03
BARD1	Down	-1.84	7.98E-09
BARX2	Up	Inf	1.94E-02
BATF	Up	2.81	2.26E-02
BCAM	Down	-1.34	4.40E-05
BCAT1	Up	3.23	7.55E-08
BCHE	Down	-2.73	1.47E-05
BCL11A	Up	6.24	9.11E-05
BCL11B	Up	3.05	1.64E-04
BCL2A1	Up	5.13	1.74E-03
BCL2L11	Up	1.53	1.20E-06
BCL2L2	Down	-1.18	2.91E-05
BCL6B	Up	1.27	1.82E-02
BCL7B	Down	-1.47	3.22E-06
BDKRB2	Up	1.39	2.81E-03
BDNF	Down	-6.23	3.65E-10

BEGAIN	Up	3.61	7.49E-05
BEND4	Up	2.19	4.67E-02
BEX1	Down	-7.66	2.01E-07
BHMT2	Down	-1.75	1.59E-06
BICC1	Up	1.71	5.68E-05
BICDL1	Up	4.8	6.62E-04
BID	Up	2.06	1.98E-05
BIK	Up	4.9	3.27E-02
BIN2	Up	2.98	1.25E-10
BIRC5	Up	4.13	1.03E-02
BLK	Up	7.07	2.28E-04
BLM	Up	2.53	1.72E-04
BLNK	Up	2.06	1.76E-04
BMF	Up	1.53	8.29E-06
BMP1	Up	1.44	3.09E-02
BMP3	Up	4.79	1.36E-04
BMP4	Up	1.02	8.68E-03
BMP7	Up	6.03	2.05E-05
BMPR1A	Down	-1.2	1.08E-05
BNC1	Up	Inf	5.66E-03
BOC	Up	1.12	1.25E-02
BRCA2	Up	2.34	1.08E-07
BRI3BP	Up	1.48	2.25E-02
BRINP1	Down	-1.64	1.22E-02
BRINP3	Up	5.95	1.03E-02
BRIP1	Up	2.83	1.04E-02
BTBD11	Up	4.97	7.40E-03
BTC	Down	-2.2	5.33E-06
BTG2	Up	1.44	1.04E-02
BTK	Up	2.53	7.43E-08
BTLA	Up	5.39	7.14E-03
BUB1	Up	3.39	4.82E-03
BUB1B	Up	3.69	5.83E-04
BVES	Down	-3.45	2.75E-21
C10orf71	Down	-5.38	1.01E-14
C11orf21	Up	2.57	1.01E-03
C11orf96	Down	-3.87	3.21E-37
C12orf42	Up	6.42	2.14E-03
C12orf75	Down	-4.13	1.22E-34
C13orf46	Up	1.74	6.37E-04
C14orf180	Down	-2.32	1.19E-06
C14orf28	Down	-1.65	4.53E-06
C14orf39	Up	3.48	7.06E-03
C15orf41	Down	-2.27	6.63E-11
C15orf59	Down	-1.69	5.94E-06
C16orf45	Down	-1.42	8.75E-06

C16orf54	Up	3.87	1.95E-05
C16orf74	Up	2.18	2.74E-02
C17orf107	Up	3.12	2.15E-03
C19orf38	Up	2.73	4.59E-02
C1QA	Up	2.67	1.66E-03
C1QB	Up	3.19	7.25E-04
C1QC	Up	2.86	1.40E-03
C1QTNF2	Down	-1.4	6.32E-04
C1QTNF6	Up	3.24	1.82E-02
C1orf115	Up	1.3	2.52E-02
C1orf127	Up	3.8	1.37E-02
C1orf198	Down	-1.43	3.05E-07
C1orf226	Down	-1.61	3.48E-05
C2	Up	2.67	2.65E-03
C20orf196	Up	1.1	3.41E-02
C20orf197	Up	1.92	3.54E-02
C21orf58	Up	1.05	2.45E-02
C22orf34	Up	1.68	2.69E-03
C22orf39	Down	-1.3	6.61E-05
C2orf40	Down	-1.26	8.12E-04
C3	Up	3.39	7.43E-04
C3AR1	Up	2.11	2.25E-03
C3orf20	Up	1.39	3.39E-02
C3orf36	Up	2.85	2.90E-02
C3orf67	Up	1.99	2.49E-02
C3orf70	Down	-3.39	1.83E-28
C4orf48	Up	3.94	2.21E-05
C5AR1	Up	2.04	4.14E-02
C5AR2	Up	3.67	3.41E-03
C5orf46	Down	-2.15	3.46E-03
C5orf63	Up	2.71	1.32E-05
C5orf67	Up	5.28	4.71E-02
C6orf106	Down	-1.09	9.53E-05
C8orf46	Down	-1.54	2.16E-02
C8orf88	Down	-2.52	1.22E-11
C9orf152	Up	Inf	3.10E-02
C9orf3	Down	-1.23	9.80E-06
CA12	Down	-1.73	8.19E-08
CA13	Up	3.04	7.00E-03
CA2	Up	5.34	5.41E-03
CA3	Up	4.94	2.32E-04
CAB39L	Down	-1.34	1.07E-05
CABLES1	Up	1.17	4.06E-04
CABP1	Down	-2.18	1.78E-05
CABP4	Up	2.5	3.01E-02
CABYR	Down	-1.74	2.17E-02

CACNA1C	Down	-1.84	5.40E-09
CACNA1D	Up	3.94	2.39E-04
CACNA1E	Up	4.83	1.84E-06
CACNA1H	Down	-3.64	1.34E-29
CACNA1I	Up	2.84	3.63E-02
CACNA2D4	Up	1.55	2.48E-02
CACNB2	Down	-3.06	6.97E-17
CACNB4	Up	1.38	2.13E-04
CADM1	Up	3.2	3.73E-02
CADM2	Down	-1.99	5.01E-04
CALCRL	Up	1.68	1.16E-03
CALD1	Down	-2.63	1.49E-20
CALHM5	Down	-1.46	3.28E-06
CALHM6	Up	3.33	1.53E-02
CALM1	Down	-1.93	2.70E-12
CAMK1	Down	-1.12	1.48E-03
CAMK2A	Down	-1.67	1.58E-02
CAMK2G	Down	-2.69	7.93E-20
CAMK4	Up	2.7	1.54E-02
CAMKK1	Down	-1.71	1.70E-05
CAND2	Down	-1.94	2.62E-08
CAP2	Down	-2.93	1.13E-20
CAPN13	Up	Inf	3.76E-02
CAPN6	Up	3.63	1.31E-04
CAPZA2	Down	-1.39	9.90E-07
CARD11	Up	2.83	4.77E-04
CARD14	Up	3.82	6.75E-03
CARD16	Up	1.37	4.55E-02
CARD8	Up	1.21	1.20E-03
CARD9	Up	2.33	2.14E-03
CARM1	Down	-1.02	6.00E-04
CARMIL2	Up	4.87	3.34E-05
CARNS1	Down	-1.3	4.25E-03
CASC10	Up	1.76	2.12E-02
CASKIN1	Up	2.87	1.66E-02
CASP1	Up	1.64	1.14E-04
CASP10	Up	1.27	1.03E-04
CASP4	Up	1.1	9.20E-04
CASQ1	Down	-3.63	1.37E-08
CASQ2	Down	-4.56	2.67E-45
CASS4	Up	1.94	3.76E-03
CAV1	Down	-1.66	4.61E-09
CAV2	Down	-1.52	2.94E-07
CAVIN1	Down	-1.93	4.79E-12
CAVIN3	Down	-1.98	6.95E-11
CBARP	Up	2.6	5.93E-04

CBLN1	Down	-1.78	1.35E-03
CBS	Up	1.93	4.48E-02
CBX6	Down	-1.25	6.72E-06
CBX7	Down	-1.76	7.60E-10
CBX8	Up	1.38	4.44E-02
CC2D2A	Down	-1.05	4.88E-04
CCDC102A	Down	-1.31	2.49E-04
CCDC102B	Up	2.29	3.56E-05
CCDC107	Down	-1.98	6.23E-08
CCDC110	Down	-1.18	2.20E-02
CCDC113	Down	-1.03	1.34E-02
CCDC136	Down	-2.4	1.35E-12
CCDC138	Up	1.55	3.18E-03
CCDC144A	Down	-2.22	1.49E-04
CCDC146	Down	-1.52	6.17E-06
CCDC158	Down	-1.64	2.09E-04
CCDC17	Up	1.14	2.67E-02
CCDC170	Up	1.84	3.43E-04
CCDC18	Up	1.06	1.19E-02
CCDC190	Down	-3.57	7.03E-08
CCDC3	Down	-3.23	2.92E-28
CCDC50	Down	-1.23	1.04E-05
CCDC51	Down	-1.19	1.00E-02
CCDC68	Up	1.5	2.52E-03
CCDC69	Down	-2.22	1.08E-13
CCDC78	Up	3.47	1.26E-02
CCDC81	Down	-4.38	1.32E-25
CCDC88B	Up	2.2	1.26E-08
CCDC88C	Up	1.67	5.88E-07
CCDC89	Down	-1.42	3.01E-02
CCDC9B	Down	-2.31	6.74E-14
CCL16	Up	1.48	3.04E-02
CCL18	Up	Inf	2.37E-04
CCL22	Up	3.31	6.56E-03
CCL3	Up	3	7.84E-07
CCL4	Up	2.98	8.11E-04
CCL4L2	Up	1.81	1.23E-02
CCL5	Up	3.36	2.51E-04
CCNA2	Up	1.53	3.46E-02
CCNB1	Up	2.04	2.78E-03
CCNB2	Up	2.65	3.96E-02
CCNE2	Up	2.16	3.11E-02
CCNF	Up	2.3	1.76E-03
CCNJL	Up	2.16	3.08E-03
CCNL1	Up	1.05	2.55E-04
CCR1	Up	3.35	1.10E-04

CCR2	Up	2.35	3.45E-05
CCR4	Up	3.38	1.09E-02
CCR5	Up	2.92	4.34E-05
CCR6	Up	4.43	1.44E-04
CCR7	Up	6.05	3.70E-03
CCRL2	Up	2	1.64E-02
CCSER2	Down	-1.3	3.24E-06
CCT8	Down	-1.14	7.52E-05
CD14	Up	1.48	1.13E-03
CD151	Down	-1.46	1.33E-07
CD163	Up	3.15	8.86E-03
CD163L1	Up	4.28	3.84E-05
CD180	Up	4.26	7.44E-08
CD19	Up	5.61	7.31E-04
CD1D	Up	1.64	2.23E-02
CD1E	Up	2.79	4.63E-02
CD2	Up	3.81	9.51E-04
CD200R1	Up	2.32	3.96E-02
CD209	Up	1.99	5.62E-04
CD22	Up	3.04	2.49E-02
CD226	Up	1.65	5.73E-03
CD24	Up	4.6	1.37E-03
CD247	Up	2.79	1.75E-02
CD248	Up	1.1	3.82E-02
CD27	Up	5.59	1.62E-03
CD28	Up	3.03	2.58E-07
CD300A	Up	2.94	2.52E-05
CD300C	Up	2.43	1.40E-02
CD300E	Up	2.94	1.95E-02
CD300LF	Up	4.53	3.10E-05
CD33	Up	2.14	1.20E-02
CD37	Up	3.4	6.71E-06
CD38	Up	3.13	7.40E-04
CD3D	Up	4.47	1.73E-03
CD3E	Up	5.22	3.33E-04
CD3G	Up	3.35	6.65E-03
CD4	Up	2.89	3.07E-04
CD40	Up	1.56	4.89E-05
CD40LG	Up	4.14	2.53E-02
CD48	Up	3.36	1.90E-03
CD5	Up	5.67	3.51E-02
CD52	Up	2.82	1.28E-02
CD53	Up	3.17	1.12E-08
CD6	Up	5.03	4.13E-06
CD68	Up	3.13	2.91E-05
CD69	Up	4.09	3.88E-02

CD7	Up	3.68	1.16E-03
CD72	Up	3.47	4.44E-02
CD74	Up	1.32	8.88E-04
CD79A	Up	6.44	4.63E-03
CD80	Up	3.33	1.25E-03
CD83	Up	3.38	3.57E-03
CD84	Up	3.58	4.39E-07
CD86	Up	2.61	5.12E-07
CD8A	Up	3.8	2.33E-03
CD8B	Up	4.56	9.61E-04
CD96	Up	4.59	3.15E-04
CDC14A	Up	1.36	1.43E-04
CDC20	Up	3.68	3.00E-03
CDC25A	Up	1.81	4.83E-02
CDC37L1	Down	-1.57	1.01E-06
CDC42EP3	Down	-2.13	9.39E-10
CDC42EP5	Up	2.17	3.26E-05
CDC45	Up	3.61	2.72E-02
CDC6	Up	2.56	1.06E-03
CDC7	Up	2.14	1.85E-04
CDC73	Down	-1.14	6.07E-05
CDCA2	Up	4.87	9.68E-04
CDCA5	Up	2.28	3.79E-02
CDCA7	Up	2.75	2.49E-03
CDCA7L	Up	2.2	2.46E-03
CDCA8	Up	2.16	2.46E-02
CDH11	Up	3.09	3.61E-03
CDH13	Down	-1.22	2.20E-03
CDH19	Down	-1.19	2.62E-02
CDH3	Down	-1.9	1.69E-03
CDH5	Up	1.05	3.90E-02
CDH6	Down	-1.44	2.27E-06
CDK1	Up	3.12	8.43E-03
CDK10	Up	1.05	1.07E-03
CDK3	Up	1.02	2.63E-02
CDK5RAP3	Up	1.28	4.53E-04
CDKL1	Down	-1.24	2.35E-03
CDKL2	Down	-2.22	1.83E-02
CDKN1C	Up	1.12	1.32E-03
CDO1	Up	1.86	4.24E-02
CDS2	Down	-1.41	4.79E-07
CDT1	Up	3.71	1.21E-02
CEACAM21	Up	3.15	1.16E-05
CEACAM4	Up	2.77	3.90E-02
CEBPD	Up	2.22	7.37E-05
CELF5	Up	5.94	3.16E-02

CELSR1	Up	2.12	2.84E-04
CELSR2	Down	-1.09	3.15E-04
CEMIP	Up	1.64	3.02E-02
CEMIP2	Up	1.71	5.75E-03
CENPA	Up	3.39	1.41E-02
CENPF	Up	4.14	9.09E-04
CENPK	Up	3.14	5.66E-06
CENPM	Up	3.79	2.87E-03
CENPO	Up	1.31	4.59E-03
CENPU	Up	1.98	1.36E-02
CEP170B	Down	-1.13	6.43E-05
CEP41	Up	1.1	6.03E-03
CEP55	Up	4.44	2.34E-03
CEP85	Up	1.14	1.14E-02
CERCAM	Up	1.82	2.13E-02
CES1	Down	-2.78	5.76E-07
CETN2	Down	-1.03	2.67E-03
CETP	Up	3.22	4.12E-02
CFAP221	Down	-2.37	2.38E-02
CFAP44	Up	1.29	7.20E-05
CFAP46	Up	4.13	1.21E-02
CFAP54	Up	2.29	8.78E-04
CFAP69	Down	-1.25	2.06E-04
CFL2	Down	-3.38	1.54E-29
CHCHD10	Down	-1.3	5.57E-04
CHCHD4	Down	-1.06	1.69E-02
CHD3	Up	1.16	2.82E-05
CHD7	Up	1.72	5.08E-08
CHEK2	Up	1.64	3.74E-03
CHGA	Up	5.36	4.77E-03
CHI3L1	Up	4.81	2.42E-02
CHKA	Up	1.86	4.33E-03
CHL1	Up	2	2.34E-02
CHML	Down	-1.06	6.34E-04
CHMP2B	Down	-1.06	6.22E-04
CHMP4B	Down	-1.06	3.02E-04
CHMP4C	Up	3.36	3.17E-02
CHN2	Up	1.74	4.67E-03
CHRAC1	Down	-1.15	7.10E-04
CHRDL2	Down	-3.95	7.01E-20
CHRM3	Up	3.68	1.95E-03
CHST1	Up	2.77	5.64E-04
CHST11	Up	1.66	2.04E-06
CHST13	Up	4.89	1.54E-02
CHST15	Up	2.03	1.71E-10
CHST2	Up	3.17	3.39E-09

CHTF18	Up	1.19	4.75E-03
CIART	Down	-2.06	4.40E-03
CIDEB	Up	1.02	1.64E-02
CIITA	Up	1.22	3.77E-05
CILP	Down	-2.28	3.62E-03
CILP2	Up	7.06	2.74E-03
CIPC	Down	-2.03	9.09E-09
CISD1	Down	-1.3	5.86E-04
CIT	Up	1.95	3.61E-05
CKAP2L	Up	3.66	5.91E-03
CKB	Down	-3.36	5.73E-30
CKLF	Up	1.95	4.10E-02
CKMT2	Down	-3.61	1.26E-19
CKS2	Up	1.78	2.55E-02
CLCN5	Up	1.51	3.80E-03
CLDN3	Up	Inf	3.38E-02
CLEC10A	Up	1.61	3.18E-02
CLEC11A	Up	4.34	9.31E-03
CLEC17A	Up	4.54	2.46E-02
CLEC18B	Up	3.6	3.84E-02
CLEC2D	Up	1.6	5.46E-06
CLEC4C	Up	Inf	1.74E-02
CLEC4E	Up	4.69	2.01E-04
CLEC5A	Up	1.7	1.58E-02
CLEC7A	Up	1.86	3.29E-04
CLECL1	Up	4.54	7.14E-03
CLIC4	Down	-2.22	1.91E-15
CLIP1	Down	-2.2	7.66E-15
CLIP3	Down	-1.23	1.19E-04
CLMN	Up	1.02	2.71E-02
CLMP	Up	3.86	6.87E-09
CLNK	Up	4.52	9.90E-04
CLSPN	Up	3.63	1.60E-02
CLSTN3	Up	2.02	1.46E-03
CLTB	Down	-1.19	1.26E-04
CLYBL	Down	-1.37	9.67E-04
CMPK2	Up	1.42	4.06E-03
CMTM1	Up	1.59	4.24E-02
CMTM3	Up	1.98	7.34E-05
CMTM7	Up	2.82	1.22E-09
CMTM8	Up	1.91	2.50E-03
CNDP2	Up	1.26	3.99E-05
CNKSR2	Up	1.35	6.55E-03
CNN1	Down	-5.85	5.04E-71
CNNM1	Down	-3.6	1.70E-07
CNNM2	Down	-1.13	2.29E-03

CNPY2	Up	1.07	1.98E-03
CNR1	Down	-1.17	3.49E-02
CNR2	Up	6.57	8.26E-03
CNST	Down	-1.25	2.78E-05
CNTN4	Down	-3.03	1.05E-22
CNTN5	Down	-4.1	1.12E-03
CNTN6	Down	-1.84	1.20E-02
CNTNAP2	Up	8.82	2.73E-03
CNTNAP3	Down	-1.07	1.16E-02
COBLL1	Down	-2.03	1.34E-12
COL10A1	Up	2.6	8.95E-03
COL11A1	Up	7.08	5.55E-03
COL19A1	Down	-2.59	2.35E-05
COL1A1	Up	5.37	2.23E-02
COL1A2	Up	3.97	4.11E-02
COL23A1	Up	1.9	1.34E-02
COL24A1	Up	5.98	7.70E-03
COL27A1	Up	2.04	3.20E-03
COL3A1	Up	2.85	1.09E-05
COL4A2	Down	-1.01	7.52E-03
COL4A3	Up	2.6	4.55E-02
COL4A4	Up	2.77	4.95E-02
COL4A5	Down	-2.93	3.78E-22
COL4A6	Down	-5.03	5.76E-19
COL5A2	Up	2.97	2.48E-02
COL5A3	Up	2.61	2.53E-02
COL6A3	Up	1.45	1.04E-02
COL8A2	Down	-1.06	3.99E-04
COLEC10	Down	-2.85	1.36E-02
COLEC12	Up	2.78	5.34E-05
COMP	Down	-3.55	3.03E-14
COQ10B	Down	-1.03	1.33E-03
CORO1A	Up	2.7	7.94E-09
CORO1C	Down	-2.14	3.92E-14
CORO2A	Up	1.83	4.10E-02
CORO6	Down	-1.89	3.31E-09
COTL1	Up	2.59	4.14E-05
COX20	Down	-1.14	3.85E-04
COX6C	Down	-1.09	3.55E-04
COX7A1	Down	-1.89	5.39E-08
CPEB1	Down	-1.93	3.61E-05
CPEB2	Down	-1.68	4.15E-09
CPED1	Down	-3.13	2.02E-26
CPLX1	Up	1.06	3.87E-02
CPNE5	Up	2.21	3.71E-08
CPNE6	Down	-6.92	1.15E-24

CPNE7	Up	3.19	1.68E-02
CPVL	Up	3.02	3.87E-03
CPXM1	Up	8.93	5.93E-22
CPZ	Up	5.25	2.75E-12
CR1	Up	3.85	6.04E-03
CR2	Up	Inf	2.01E-04
CRABP2	Up	3.17	2.05E-04
CREB3L1	Up	4.31	7.59E-04
CREG2	Up	5.26	1.02E-02
CRIM1	Down	-1.48	9.09E-08
CRIP1	Down	-1.11	3.21E-04
CRIP2	Down	-1.12	1.13E-04
CRIP3	Up	1.69	1.00E-02
CRISPLD2	Up	1.27	1.86E-02
CRLF1	Down	-2.61	5.77E-05
CRMP1	Up	2.93	1.33E-02
CRNDE	Up	1.99	3.36E-06
CROCC2	Up	4.1	1.63E-02
CRTAM	Up	3.38	1.11E-02
CRTC3	Down	-1.14	5.62E-05
CRYAB	Down	-2.13	1.69E-13
CRYBG1	Up	2.12	1.19E-10
CRYZ	Down	-1.53	2.28E-06
CSDC2	Down	-2.95	4.91E-15
CSDE1	Down	-1.34	6.20E-07
CSF1R	Up	2.01	2.23E-03
CSF2RB	Up	1.31	1.14E-04
CSF3R	Up	2.92	3.81E-04
CSK	Up	1.15	2.42E-04
CSMD1	Down	-2.81	1.38E-04
CSMD2	Up	2.66	8.21E-04
CSPG4	Down	-1.65	1.32E-04
CSRNP1	Up	1.27	1.29E-03
CSRNP3	Up	2.15	1.78E-02
CSRP1	Down	-4.83	2.01E-54
CSRP2	Down	-1.06	2.01E-03
CST1	Up	11.29	2.58E-02
CST4	Up	15.04	9.68E-03
CST7	Up	2.82	7.73E-03
CTF1	Down	-1.95	2.51E-05
CTIF	Down	-1.57	3.50E-08
CTLA4	Up	5.32	1.92E-04
CTNNA3	Down	-3.9	1.19E-20
CTSB	Up	1.09	1.18E-02
CTSC	Up	1.83	4.79E-04
CTSD	Up	1.18	1.38E-05

CTSH	Up	1.39	1.72E-02
CTSS	Up	3.22	1.07E-20
CTSW	Up	2.46	3.17E-02
CTSZ	Up	1.08	1.71E-04
CTXN1	Down	-3.16	6.73E-11
CUBN	Up	2.21	1.79E-05
CUL7	Up	1.19	1.41E-04
CUX2	Up	3.8	3.60E-02
CXCL1	Up	3.67	1.67E-02
CXCL13	Up	Inf	2.62E-03
CXCL14	Up	4.13	1.57E-02
CXCL16	Up	2.1	9.36E-07
CXCL17	Up	Inf	1.72E-02
CXCL2	Up	3.18	1.51E-03
CXCL8	Up	2.2	8.65E-03
CXCL9	Up	2.42	7.99E-04
CXCR1	Up	3.42	3.16E-02
CXCR2	Up	3.34	6.88E-03
CXCR3	Up	4.48	3.10E-03
CXCR4	Up	4.9	8.42E-07
CXCR5	Up	4.31	8.36E-03
CXCR6	Up	5.81	1.74E-04
CXorf21	Up	3.29	9.00E-06
CYB561D2	Up	1.19	2.77E-02
CYB5R3	Down	-1.33	1.91E-06
CYBA	Up	2.96	3.11E-17
CYBB	Up	1.98	1.55E-03
CYGB	Up	1.97	2.91E-03
CYP11A1	Up	4.43	1.03E-02
CYP1B1	Up	4.34	7.41E-07
CYP27A1	Up	1.7	4.19E-06
CYP27C1	Up	2.34	2.43E-03
CYP2S1	Up	2.86	1.06E-03
CYP39A1	Up	1.83	4.36E-02
CYP4F3	Up	3.86	2.75E-02
CYS1	Down	-1.44	4.28E-05
CYTH1	Up	1.36	8.26E-06
CYTH4	Up	1.9	1.78E-07
CYTIP	Up	4.46	2.84E-03
DAAM1	Down	-1.4	8.85E-07
DAAM2	Down	-1.17	2.34E-05
DAB1	Down	-3.48	1.72E-06
DAB2	Up	1.52	6.09E-04
DACT2	Up	2.3	4.08E-02
DACT3	Down	-3.09	2.06E-23
DAG1	Down	-1.11	5.64E-05

DAGLA	Up	1.36	9.54E-04
DAPK1	Up	1.4	1.15E-06
DAPK2	Up	2.58	1.39E-02
DAPK3	Down	-1.2	5.43E-05
DAPL1	Up	4.3	4.40E-02
DAPP1	Up	3.65	6.13E-04
DAZL	Up	Inf	3.77E-02
DBNDD2	Down	-2.6	7.71E-17
DCAF12L1	Down	-6.46	4.79E-10
DCAF12L2	Down	-4.24	4.31E-16
DCN	Up	1.3	1.95E-02
DCSTAMP	Up	Inf	1.74E-03
DCUN1D5	Down	-1.16	1.21E-04
DCX	Up	5.42	2.10E-03
DDIT3	Down	-1.06	6.19E-03
DDIT4	Up	2.27	2.21E-06
DDO	Down	-1.34	2.58E-02
DDX60L	Up	1.37	8.52E-05
DEF6	Up	3.44	1.44E-05
DEFA3	Up	Inf	3.80E-02
DEGS1	Down	-1.04	3.08E-04
DENND1C	Up	3.12	9.40E-06
DENND2A	Up	1.97	1.13E-03
DENND2D	Up	3.87	1.71E-04
DENND6B	Up	1.23	4.52E-03
DEPDC1	Up	3.93	4.12E-03
DERL3	Up	6.37	4.96E-02
DES	Down	-6.51	3.28E-82
DGKA	Up	2.11	3.39E-03
DGKG	Down	-3.37	3.81E-25
DHCR24	Up	3.29	2.96E-02
DHRS9	Up	3.65	1.24E-03
DHX35	Down	-1.23	2.05E-04
DIO2	Up	2.48	3.47E-02
DIP2C	Down	-1.38	8.25E-07
DISC1	Up	1.68	5.60E-07
DIXDC1	Down	-1.81	3.27E-10
DKK2	Up	4.99	5.79E-03
DLEC1	Up	2.18	3.00E-03
DLGAP2	Up	3.62	1.76E-02
DLGAP5	Up	4.7	1.14E-03
DLK2	Up	6.52	1.83E-02
DLL1	Up	1.21	6.10E-04
DMBT1	Up	13.23	1.41E-02
DMD	Down	-3.29	1.04E-29
DMP1	Up	7.79	3.28E-02

DMPK	Down	-1.97	4.15E-12
DMRT3	Down	-2.53	2.18E-02
DNA2	Up	2.13	9.54E-05
DNAH14	Up	2.84	3.46E-11
DNAH6	Up	1.86	1.86E-02
DNAH8	Up	2.91	4.87E-02
DNAH9	Up	4.25	8.20E-03
DNAJB4	Down	-1.74	3.74E-07
DNAJB5	Down	-3.66	1.36E-28
DNAJB6	Down	-1.33	3.29E-06
DNAJC6	Down	-1.08	3.78E-02
DNASE1L3	Up	3.07	2.40E-02
DNM1	Up	1.53	8.27E-03
DNM1L	Down	-1.28	9.45E-06
DNMT3B	Up	1.09	2.54E-02
DOCK2	Up	2.6	4.06E-09
DOCK3	Down	-2.99	1.46E-16
DOCK4	Up	1.14	7.87E-03
DOCK8	Up	2.41	2.25E-12
DOK2	Up	1.72	6.19E-03
DOK3	Up	2.33	3.56E-07
DOK5	Up	2.43	4.65E-07
DPEP1	Up	5.25	3.57E-06
DPEP2	Up	2.51	1.43E-04
DPH3	Down	-1.12	6.15E-04
DPP10	Down	-5.03	1.72E-04
DPP4	Up	3.79	1.06E-04
DPY19L3	Up	1.02	8.25E-04
DPYSL3	Down	-1.85	3.22E-11
DPYSL4	Up	2.51	1.71E-02
DRICH1	Up	1.71	3.90E-02
DSC3	Up	4.54	2.48E-02
DSP	Up	4.35	4.12E-02
DST	Down	-1.15	1.93E-05
DSTN	Down	-3.14	1.42E-27
DTHD1	Up	3.74	9.79E-03
DTL	Up	2.85	5.40E-04
DTNA	Down	-3.3	1.15E-27
DTWD2	Down	-1.19	5.94E-04
DTX4	Up	3.14	2.30E-04
DUOXA1	Up	2.9	4.36E-02
DUSP19	Down	-1.3	3.46E-04
DUSP2	Up	1.58	1.60E-02
DUSP26	Down	-2.12	1.07E-02
DUSP27	Down	-2.83	1.92E-02
DUSP3	Down	-2.44	2.52E-17

DUSP5	Up	2.45	9.25E-04
DUSP6	Up	2.19	2.93E-07
DUSP8	Down	-1.62	1.00E-03
DYNC1H1	Down	-1.32	2.28E-04
DYNC1LI2	Down	-1.02	1.94E-04
DYNLL2	Down	-1.11	1.58E-04
DYNLT3	Down	-1.11	4.48E-04
DYRK2	Down	-1.01	4.06E-04
DYRK3	Up	1.12	1.29E-03
E2F2	Up	4.23	1.56E-02
E2F7	Up	4.1	7.57E-03
E2F8	Up	4.62	1.30E-03
EA2F2	Up	2.37	3.53E-05
EDARADD	Up	2.98	2.34E-03
EDN1	Up	2.12	1.37E-03
EDN3	Up	Inf	1.89E-02
EFCAB1	Up	3.51	2.19E-03
EFHC2	Down	-1.43	2.04E-02
EFHD1	Down	-1.83	9.88E-07
EFNA1	Up	1.05	4.60E-03
EFNA2	Up	5.78	2.78E-02
EFNA4	Up	2.18	2.17E-03
EFNA5	Up	2.81	7.45E-05
EFNB1	Up	1.37	2.47E-02
EFNB2	Up	1.15	3.41E-02
EFNB3	Up	5.22	8.67E-10
EGFL6	Up	8.11	1.56E-06
EGFR	Down	-1.02	2.09E-04
EGLN3	Down	-2.19	5.74E-09
EGR1	Up	1.9	9.04E-12
EGR2	Up	3.18	4.19E-08
EGR3	Up	2.67	2.20E-15
EHBP1L1	Down	-1.84	7.11E-11
EHD1	Down	-1.83	3.13E-10
EHD2	Down	-1.17	5.64E-05
EHF	Up	11.06	2.93E-02
EID1	Down	-1.12	6.48E-05
EIF4E3	Down	-1.56	9.43E-08
EIF4EBP1	Up	1.51	3.77E-02
EIF5A2	Down	-1.61	1.25E-05
ELANE	Up	3.05	2.61E-02
ELF5	Up	Inf	2.18E-02
ELFN1	Up	2.75	3.45E-04
ELMO1	Up	1.52	6.25E-05
ELMO3	Up	1.93	4.08E-02
ELOVL6	Up	1.49	4.72E-03

EMB	Up	1.59	2.19E-05
EMID1	Up	2.33	3.44E-02
EMILIN1	Down	-1.2	3.96E-05
EML4	Up	1.22	1.97E-03
EML5	Down	-1.05	2.17E-02
EML6	Up	1.42	3.87E-02
EMX2	Down	-3.63	4.61E-20
EN1	Down	-2.06	2.24E-06
ENAH	Down	-1.49	4.15E-08
ENAM	Down	-5.71	1.77E-07
ENC1	Up	1.79	1.60E-08
ENDOD1	Down	-1.33	5.35E-06
ENO2	Down	-2.18	7.06E-12
ENOX1	Down	-1.47	1.19E-04
ENOX2	Down	-1.47	6.15E-06
ENPEP	Up	3.51	2.77E-03
ENPP2	Up	1.98	1.75E-03
ENPP6	Up	5.3	1.26E-02
ENTPD1	Down	-1.42	4.86E-07
ENTPD7	Up	1.11	6.45E-03
ENY2	Down	-1.13	9.23E-04
EOGT	Down	-1.77	9.92E-10
EOMES	Up	4.54	3.52E-03
EPAS1	Down	-1.92	4.80E-12
EPB41L3	Up	1.49	5.94E-03
EPDR1	Down	-1.38	5.09E-06
EPHA2	Up	1.7	6.44E-03
EPHA5	Up	3.06	7.02E-06
EPHA7	Up	4.56	8.80E-03
EPHB2	Up	1.06	1.78E-02
EPHB4	Up	1.57	1.51E-06
EPHB6	Down	-1.39	1.98E-05
EPHX1	Up	1.15	3.79E-02
EPM2A	Down	-2.58	5.81E-14
EPPK1	Down	-2.45	1.79E-09
EPS8	Down	-1.06	2.24E-04
EPSTI1	Up	1.78	3.46E-06
EPYC	Up	Inf	7.41E-03
ERAP2	Up	2.2	3.49E-02
ERC1	Down	-1.12	5.54E-05
EREG	Up	4.98	1.99E-02
ERFE	Up	1.91	3.20E-02
ERMN	Up	6.34	1.14E-02
ERMP1	Up	1.02	1.09E-03
ERP27	Up	2.28	9.20E-03
ESAM	Down	-1.11	1.86E-04

ESCO2	Up	3.02	2.16E-02
ESD	Down	-1.21	3.59E-05
ESPL1	Up	3.24	7.88E-04
ESR2	Up	2.37	4.02E-02
ESRP1	Up	Inf	3.03E-02
ESYT2	Down	-1.4	4.70E-07
ETV1	Up	1.43	4.16E-02
ETV5	Up	1.15	1.17E-03
ETV7	Up	2.15	4.56E-02
EVA1A	Up	3.44	3.72E-05
EVI2A	Up	2.74	1.97E-09
EVI2B	Up	2.98	1.78E-09
EXO1	Up	3.05	1.03E-02
EXPH5	Up	3.33	4.99E-02
EYA1	Up	7.41	3.04E-06
EYA2	Up	2.19	4.92E-08
EZH2	Up	1.41	2.09E-03
F10	Down	-2.52	3.32E-11
F11R	Up	1.98	1.43E-02
F2RL3	Up	2.43	1.24E-03
FABP3	Down	-4.15	1.18E-30
FADS3	Down	-1.6	5.21E-07
FAM110A	Up	2.67	1.54E-07
FAM110C	Down	-1.23	1.30E-02
FAM111B	Up	5.15	2.19E-05
FAM124B	Up	1.73	3.22E-02
FAM129A	Down	-2.37	9.19E-18
FAM129C	Up	4.46	6.33E-03
FAM131B	Down	-1.69	9.97E-04
FAM13B	Down	-1.45	2.63E-07
FAM149A	Down	-1.43	1.13E-04
FAM151B	Up	1.67	5.49E-03
FAM153B	Up	Inf	4.00E-02
FAM155A	Down	-1.09	1.28E-02
FAM161B	Down	-1.14	3.03E-03
FAM167A	Up	7.41	5.03E-06
FAM168B	Down	-1.02	2.12E-04
FAM169A	Up	2.62	1.25E-04
FAM171A1	Up	1.3	3.86E-05
FAM171A2	Up	4.25	3.38E-07
FAM171B	Up	2.12	2.25E-05
FAM178B	Down	-3.06	8.14E-04
FAM181B	Down	-2.5	1.18E-03
FAM196A	Up	4.17	3.16E-03
FAM196B	Up	5.05	1.22E-03
FAM19A5	Up	3.93	4.83E-05

FAM207A	Down	-1.61	4.02E-05
FAM20A	Up	4.06	3.51E-03
FAM20B	Down	-1.68	3.91E-09
FAM212B	Down	-1.53	1.78E-03
FAM227A	Up	2.1	7.90E-04
FAM234B	Up	1.01	9.08E-03
FAM24B	Up	2.25	3.16E-02
FAM3D	Up	Inf	2.01E-02
FAM43A	Up	1.52	6.15E-04
FAM46B	Down	-2.99	3.01E-04
FAM49B	Up	1.19	4.74E-04
FAM53B	Up	1.05	4.45E-04
FAM57A	Up	1.22	1.14E-02
FAM71F2	Up	1.45	4.18E-03
FAM72B	Up	3.04	9.81E-03
FAM78A	Up	2.53	5.54E-09
FAM83A	Up	Inf	3.73E-02
FAM83D	Down	-3	9.92E-04
FAM83H	Up	4.31	1.12E-02
FAM84A	Up	1.62	4.63E-02
FAM89A	Up	1.08	2.97E-02
FANCA	Up	2.64	2.99E-05
FANCC	Up	1.62	4.58E-05
FANCD2	Up	1.58	7.07E-04
FANCI	Up	1.54	4.18E-04
FAP	Up	2.48	2.60E-03
FAT3	Down	-1.46	1.66E-02
FAXC	Down	-2.66	5.65E-11
FAXDC2	Down	-1.2	4.56E-05
FBLIM1	Down	-3.23	4.82E-28
FBLN7	Down	-1.48	1.52E-06
FBN2	Up	3.8	7.51E-03
FBP1	Up	4.07	2.28E-02
FBXL22	Down	-3.78	3.28E-14
FBXL3	Down	-1.23	1.58E-05
FBXO30	Down	-1.36	2.72E-06
FBXO32	Down	-2.09	1.17E-05
FBXO40	Down	-8.5	1.23E-25
FBXO41	Up	2.93	7.27E-08
FBXW5	Down	-1.19	2.85E-05
FCER1G	Up	2.6	5.16E-05
FCER2	Up	3.92	2.80E-03
FCGR2A	Up	1.78	4.72E-03
FCGR2B	Up	1.51	2.74E-03
FCGR3A	Up	3.47	1.01E-03
FCGR3B	Up	3.06	4.77E-03

FCGRT	Up	1.58	9.69E-06
FCHO1	Up	2.48	1.00E-04
FCMR	Up	5.44	1.19E-03
FCN1	Up	3.09	1.54E-06
FCRL1	Up	9.18	1.09E-04
FCRL2	Up	8.65	2.61E-04
FCRL3	Up	6.29	9.22E-03
FCRL5	Up	8.42	7.30E-04
FCRL6	Up	2.47	3.75E-02
FCRLA	Up	6.72	5.20E-03
FEM1B	Down	-1.39	7.59E-07
FEM1C	Down	-1.27	1.01E-05
FERMT2	Down	-1.84	5.59E-11
FERMT3	Up	1.79	1.81E-06
FES	Up	1.11	8.93E-04
FETUB	Down	#NAME?	1.31E-02
FEZ1	Down	-1.38	3.14E-05
FGD2	Up	2.83	1.06E-04
FGD3	Up	3.5	2.02E-10
FGF10	Down	-1.07	8.58E-03
FGF13	Down	-2.21	4.19E-09
FGF14	Down	-2.78	4.46E-09
FGF17	Up	2.52	8.64E-03
FGF2	Down	-1.61	4.30E-07
FGF5	Up	5.6	3.77E-02
FGR	Up	1.45	1.34E-02
FHAD1	Up	4.8	2.51E-02
FHDC1	Up	3.85	5.14E-11
FHL1	Down	-3.04	1.69E-25
FHL2	Down	-1.46	5.50E-05
FHL5	Down	-4.64	2.44E-48
FHOD3	Down	-1.47	1.95E-05
FIGN	Down	-1.07	2.93E-04
FIGNL2	Up	1.35	1.72E-02
FILIP1	Down	-2.77	1.69E-20
FILIP1L	Down	-3.52	5.48E-32
FJX1	Up	1.96	1.50E-03
FKBP11	Up	2.94	2.83E-03
FKBP5	Up	1.6	1.87E-03
FLI1	Up	1.09	1.40E-02
FLJ20712	Up	1.18	3.47E-02
FLNA	Down	-3.83	5.89E-38
FLNC	Down	-4.15	4.17E-42
FLRT2	Up	2.98	1.15E-10
FLRT3	Up	1.68	2.78E-04
FLT3	Up	3.14	5.01E-05

FLT4	Up	2.72	4.39E-03
FLVCR2	Up	3.11	1.32E-03
FMN1	Up	2.93	1.63E-07
FMNL1	Up	2.53	3.54E-12
FMO1	Up	5.51	1.93E-03
FMO3	Up	2.98	2.40E-03
FNBP1	Down	-1.8	2.10E-10
FNBP1L	Up	1.95	2.12E-02
FNDC1	Up	3.35	3.52E-02
FNDC10	Up	3.38	1.61E-04
FNDC5	Up	1.85	3.43E-02
FOLR2	Up	1.94	3.88E-03
FOS	Up	1.2	1.27E-05
FOSB	Up	1.46	5.34E-04
FOXD1	Up	2.37	4.80E-02
FOXL1	Down	-1.6	4.85E-06
FOXL2	Up	6.71	1.18E-05
FOXL2NB	Up	6.66	7.95E-05
FOXMI	Up	4	5.57E-03
FOXN3	Down	-1.63	3.32E-09
FOXO4	Down	-1.04	8.28E-04
FOXP2	Up	3.17	1.35E-04
FOXS1	Down	-1.55	4.27E-04
FPR1	Up	4.06	1.73E-03
FPR2	Up	4.68	1.20E-02
FPR3	Up	2.67	3.88E-03
FRAT1	Up	1.79	3.83E-04
FRK	Down	-2.62	5.18E-17
FRMD4A	Up	1.17	6.51E-05
FRMD4B	Up	2.32	2.23E-11
FRMD6	Up	1.08	2.40E-02
FRRS1L	Up	5.28	1.96E-07
FRY	Down	-3	3.85E-15
FSCN1	Up	2.76	7.76E-05
FST	Down	-1.92	5.52E-04
FSTL3	Down	-2.74	1.05E-18
FTCDNL1	Up	2.45	1.78E-02
FTL	Up	1.03	3.11E-02
FUCA1	Up	1.18	1.16E-03
FUT8	Up	1.07	6.08E-04
FXYD1	Down	-1.88	3.23E-09
FXYD5	Up	1.44	4.69E-05
FYB1	Up	3.28	1.22E-04
FYCO1	Down	-2.26	1.52E-15
FZD10	Up	3.25	2.06E-02
FZD2	Down	-1.04	6.60E-03

FZD3	Down	-1.06	1.28E-02
FZD9	Up	2.93	4.75E-02
GAB2	Down	-1.02	4.34E-04
GABRA4	Down	-6.42	5.80E-09
GABRB1	Down	-3.5	7.55E-05
GABRB3	Down	-1.71	1.95E-02
GABRG3	Up	Inf	1.69E-03
GABRR2	Up	2.39	1.33E-04
GAL3ST3	Down	-5.6	3.73E-02
GAL3ST4	Up	1.27	1.85E-03
GALK1	Up	1.19	9.05E-03
GALNS	Up	1.37	8.90E-03
GALNT1	Up	1.59	7.97E-03
GALNT10	Up	1.54	5.49E-07
GALNT15	Down	-2.08	7.38E-03
GALNT17	Down	-3.69	2.01E-26
GALNT18	Down	-1.15	2.71E-03
GALNT3	Up	5	2.91E-02
GALNT5	Up	5.58	8.58E-04
GAPDH	Down	-1.3	1.59E-06
GAPT	Up	2.58	5.24E-03
GARNL3	Down	-2.25	1.63E-13
GAS1	Up	1.48	2.65E-02
GAS2L3	Up	1.71	3.94E-04
GAS6	Down	-1.63	6.20E-09
GATA6	Down	-2.53	2.11E-13
GATM	Down	-1.91	4.29E-10
GBE1	Down	-1.44	1.34E-06
GBGT1	Up	1.33	9.40E-03
GBP2	Down	-1.26	2.42E-05
GBP5	Up	2.66	7.80E-03
GCNT1	Up	1.9	6.39E-05
GCNT2	Up	3.12	7.81E-06
GCNT4	Down	-1.63	1.01E-04
GCSAM	Up	5.11	3.07E-04
GDF11	Up	1.46	2.02E-03
GEM	Down	-2.08	3.25E-12
GFI1	Up	3.45	1.89E-05
GGT5	Up	1.73	6.97E-03
GGT6	Up	Inf	3.63E-02
GID4	Down	-1.4	8.93E-06
GIMAP2	Up	1.12	2.87E-02
GINS4	Up	2.36	3.34E-03
GIPC3	Down	-2.67	4.08E-16
GKAP1	Down	-1.33	2.13E-03
GLB1L	Up	1.61	1.78E-03

GLI1	Up	2.25	5.42E-05
GLP1R	Up	7.05	1.91E-03
GLRA3	Up	5.75	2.78E-02
GLRX	Up	1.18	3.28E-03
GLS	Down	-1.52	5.42E-08
GLT1D1	Up	4.42	3.78E-03
GLT8D2	Up	1.33	4.36E-04
GLUL	Up	1.37	6.58E-04
GLYCTK	Up	1.01	5.97E-03
GMFG	Up	1.84	1.21E-04
GMIP	Up	2.38	2.43E-10
GNA11	Down	-1.26	7.78E-06
GNA12	Down	-1.02	3.55E-04
GNA14	Up	1.1	2.40E-02
GNA15	Up	1.51	1.04E-02
GNAI1	Down	-1.79	3.24E-09
GNAL	Down	-2.38	5.80E-12
GNAO1	Down	-4	3.93E-33
GNAZ	Down	-2.4	2.76E-12
GNG12	Down	-1.45	2.58E-07
GNG2	Up	2.27	1.64E-06
GNG4	Up	6.6	4.19E-02
GNG8	Down	-1.51	4.65E-02
GOLM1	Up	2.55	7.46E-13
GPA33	Up	Inf	4.47E-02
GPAT3	Up	1.38	1.70E-02
GPC2	Up	2.16	2.44E-02
GPC5	Down	-5.89	5.84E-06
GPD1L	Down	-2.08	1.32E-12
GPHA2	Up	Inf	3.29E-04
GPIHBP1	Up	1.82	4.24E-02
GPLD1	Down	-1.89	2.58E-06
GPM6A	Down	-2.23	2.55E-06
GPR1	Up	5.12	6.36E-03
GPR132	Up	2.28	6.28E-04
GPR137B	Up	1.83	5.27E-08
GPR137C	Up	2.35	1.40E-02
GPR141	Up	1.61	1.18E-02
GPR155	Down	-1.79	1.06E-08
GPR162	Up	1.72	2.43E-03
GPR171	Up	4.19	2.42E-02
GPR174	Up	3.92	4.23E-03
GPR176	Down	-1.14	4.33E-04
GPR18	Up	6.53	4.29E-03
GPR182	Up	Inf	1.42E-02
GPR20	Down	-1.85	4.91E-03

GPR21	Down	-1.04	1.20E-03
GPR4	Up	1.67	6.13E-04
GPR52	Up	1.47	2.25E-02
GPR55	Up	4.04	1.05E-02
GPR63	Down	-2.46	1.67E-07
GPR65	Up	2.47	1.41E-03
GPRC5C	Up	2.26	1.67E-02
GPRIN1	Up	3.28	4.07E-03
GPRIN3	Up	2.18	2.05E-07
GPSM2	Up	1.18	5.16E-03
GPSM3	Up	2.64	1.12E-09
GPT2	Up	1.61	2.78E-02
GPX8	Up	1.95	5.48E-03
GRAMD1B	Up	2.71	3.53E-02
GRAP	Up	2.71	2.54E-08
GRAP2	Up	3.93	1.38E-06
GRAPL	Up	2.67	2.69E-02
GRASP	Up	1.36	2.31E-03
GRB14	Down	-1.97	2.20E-02
GREM1	Down	-1.85	3.71E-02
GREM2	Down	-3.22	6.72E-05
GRIA2	Down	-3.55	2.42E-03
GRIA3	Down	-2.49	2.50E-04
GRIK1	Up	7.82	4.16E-02
GRIK4	Up	2.47	1.34E-02
GRIK5	Down	-3.12	1.47E-15
GRIN2D	Up	3.52	3.00E-04
GRIN3A	Up	1.71	6.81E-03
GRK3	Up	1.39	1.68E-05
GRK5	Down	-1.35	5.33E-05
GRM7	Up	3.64	1.36E-02
GRN	Up	1.32	2.62E-06
GRP	Up	Inf	2.94E-02
GSAP	Up	1.15	1.55E-03
GSC	Up	1.57	4.70E-02
GSDMA	Up	3.66	3.85E-02
GSDMC	Up	6.3	2.95E-04
GSDME	Down	-1.24	1.41E-03
GSR	Up	1.08	3.26E-03
GSTM3	Down	-1.14	3.19E-04
GSTM4	Down	-1.26	3.28E-04
GTF2H5	Down	-1.24	3.15E-04
GTSE1	Up	3.2	1.16E-02
GUCY1A1	Down	-1.36	7.09E-05
GUCY1A2	Down	-1.78	3.58E-05
GUCY2D	Up	6.18	3.43E-03

GUSB	Up	1.21	1.50E-04
GYG1	Down	-1.86	5.16E-10
GZMA	Up	2.56	1.51E-02
GZMK	Up	4.22	1.39E-02
H2AFJ	Down	-1.43	1.42E-05
HABP4	Down	-1.16	2.90E-04
HACD1	Down	-4	2.14E-23
HACD4	Up	1.54	8.67E-03
HAGHL	Up	1.81	1.45E-02
HAND2	Down	-9.06	8.57E-19
HAPLN1	Up	5.12	3.25E-02
HAPLN2	Down	-4.68	2.45E-16
HAS1	Up	4.94	1.15E-03
HAS2	Up	2.97	2.92E-06
HAS3	Up	1.27	4.27E-02
HASPIN	Up	3.03	3.45E-02
HAVCR2	Up	2.5	2.95E-05
HCAR1	Up	2.53	4.94E-02
HCFC1R1	Down	-1.5	2.76E-06
HCK	Up	2.37	1.63E-04
HCLS1	Up	2.31	2.62E-08
HCST	Up	2.12	2.12E-02
HDAC10	Up	1.47	2.14E-05
HDAC11	Down	-1.05	1.75E-03
HDAC9	Down	-1.7	2.47E-08
HDC	Up	2.12	4.73E-02
HDX	Down	-1.5	4.35E-05
HELB	Up	1.95	6.01E-06
HELLS	Up	2.32	4.01E-05
HELZ2	Up	1.48	2.52E-06
HEMGN	Up	3.9	4.09E-02
HEPH	Down	-1.56	1.33E-07
HES2	Up	6.34	1.53E-02
HEXIM1	Down	-1.34	4.53E-06
HEY1	Up	2.19	2.11E-03
HEY2	Down	-2.42	9.70E-16
HHAT	Up	1.78	8.70E-03
HHIPL2	Down	-1.56	3.64E-02
HINT3	Down	-1.21	6.17E-05
HIPK3	Down	-1.14	2.86E-05
HIST1H1B	Up	4.41	1.08E-03
HIST1H1D	Up	1.13	9.80E-03
HIST1H2AI	Up	4.97	5.09E-04
HIST1H2AJ	Up	5.63	2.14E-03
HIST1H2AL	Up	5.03	5.79E-04
HIST1H2AM	Up	3.89	3.20E-04

HIST1H2BH	Up	3.58	1.12E-03
HIST1H2BL	Up	2.28	1.50E-02
HIST1H2BM	Up	4.3	4.68E-02
HIST1H2BO	Up	5.52	8.92E-04
HIST1H3B	Up	4.93	2.36E-03
HIST1H3C	Up	3.59	6.53E-03
HIST1H3F	Up	2.02	1.92E-02
HIST1H3G	Up	4.93	1.49E-05
HIST1H3H	Up	1.58	1.84E-02
HIST1H3I	Up	4.24	7.36E-05
HIST1H3J	Up	6.42	2.64E-03
HIST1H4L	Up	2.42	1.09E-02
HIVEP3	Up	1.27	1.89E-03
HJURP	Up	3.09	9.50E-03
HK3	Up	3.97	3.82E-04
HLA-DMA	Up	1.29	8.04E-05
HLA-DMB	Up	1.62	6.06E-06
HLA-DOA	Up	1.06	1.34E-02
HLA-DOB	Up	2.47	3.06E-02
HLA-DPB1	Up	1.12	5.68E-03
HLA-DQA1	Up	2.16	4.36E-02
HLA-DQA2	Up	1.52	2.61E-03
HLA-DRA	Up	1.37	6.24E-04
HLA-DRB1	Up	2.12	6.86E-03
HLA-DRB5	Up	2.62	1.18E-02
HMCN1	Up	1.98	4.08E-04
HMCN2	Down	-5.46	3.97E-63
HMG20B	Down	-1.13	1.23E-04
HMGA1	Up	2.2	8.60E-03
HMGA2	Up	2.67	3.51E-02
HMGB3	Up	1.83	8.78E-04
HMGN5	Down	-1.2	3.26E-02
HMMR	Up	3.98	1.61E-03
HMOX1	Up	4.96	1.15E-03
HNF4G	Up	5.16	2.97E-02
HOGA1	Down	-2.45	3.27E-05
HOPX	Down	-2.58	1.37E-10
HORMAD1	Up	3.23	4.87E-02
HOXA10	Down	-7.7	1.24E-47
HOXA11	Down	#NAME?	5.87E-13
HOXA2	Down	-5.55	7.85E-05
HOXA3	Down	-6.6	6.85E-30
HOXA4	Down	-5.56	2.08E-07
HOXA5	Down	-5.08	3.33E-10
HOXA6	Down	#NAME?	8.49E-11
HOXA7	Down	-7.7	5.96E-15

HOXA9	Down	-7.9	1.05E-25
HOXB2	Down	-3.12	2.09E-11
HOXB3	Down	-3.77	7.01E-19
HOXB4	Down	-2.48	5.00E-04
HOXB5	Down	-4.85	6.41E-03
HOXB6	Down	-4.4	1.21E-04
HOXB7	Down	-4.9	2.67E-04
HOXC10	Down	-9.58	6.48E-60
HOXC11	Down	#NAME?	8.33E-20
HOXC12	Down	-6.25	2.05E-03
HOXC13	Down	#NAME?	3.94E-05
HOXC4	Down	-6.06	3.75E-27
HOXC5	Down	-5.77	2.59E-20
HOXC6	Down	-6.26	9.94E-40
HOXC8	Down	-8.56	6.81E-43
HOXC9	Down	-6.19	4.96E-21
HOXD10	Up	Inf	3.39E-02
HP	Up	8.29	4.87E-02
HPCAL1	Up	1.29	3.62E-02
HPD	Down	-3.25	1.15E-07
HPGD	Up	1.18	3.14E-02
HPR	Down	-4.74	9.17E-03
HPSE	Up	2.08	1.72E-03
HPSE2	Down	-7.1	1.24E-07
HRASLS5	Up	2.29	2.64E-02
HRCT1	Down	-1.5	1.57E-03
HS1BP3	Down	-1.3	4.63E-05
HS3ST1	Up	2.54	9.50E-05
HS3ST3A1	Up	2.74	2.11E-02
HS3ST3B1	Up	4.79	1.88E-02
HS6ST1	Up	1.3	5.01E-05
HSD11B2	Up	3.13	1.68E-02
HSD17B2	Up	Inf	2.93E-02
HSD17B6	Down	-6.59	1.19E-48
HSDL2	Down	-1.25	3.10E-05
HSPA12B	Up	1.08	7.57E-03
HSPA2	Down	-1.92	2.11E-09
HSPA4L	Down	-1.67	2.52E-06
HSPB1	Down	-2.29	5.03E-16
HSPB2	Down	-1.62	3.94E-05
HSPB3	Down	-7.05	3.99E-38
HSPB6	Down	-3.47	4.35E-24
HSPB7	Down	-4.32	5.52E-41
HSPB8	Down	-3.31	8.53E-27
HTR1B	Down	-3.84	4.99E-20
HTR2A	Down	-3.25	1.97E-10

HTR7	Up	2.16	2.71E-02
HUNK	Down	-1.17	3.41E-03
HYAL2	Up	1.5	5.70E-03
IBSP	Up	8.35	4.29E-02
ICA1	Up	1.14	2.64E-03
ICAM3	Up	1.95	2.73E-05
ICAM5	Up	2.77	3.61E-02
ICOS	Up	3.41	1.86E-02
ID4	Down	-2.13	5.13E-14
IDH1	Up	1.01	1.04E-03
IDH3A	Down	-1.08	4.11E-04
IDO1	Up	4.09	6.89E-03
IDUA	Up	1.39	6.42E-05
IFI16	Up	1	3.46E-04
IFI30	Up	3.75	1.49E-03
IFI44	Up	1.64	5.95E-05
IFI6	Up	1.06	2.03E-03
IFITM2	Up	1.03	1.35E-02
IFNAR2	Up	1.16	4.37E-04
IFNGR2	Up	1.09	3.73E-04
IFNLR1	Up	5	3.91E-02
IFRD1	Down	-1.1	2.31E-04
IGDCC3	Up	4.6	3.88E-02
IGDCC4	Up	3.87	3.57E-15
IGF2BP1	Up	2.56	2.36E-02
IGF2BP2	Up	2.96	3.66E-03
IGF2BP3	Up	3.76	4.52E-03
IGFBP2	Up	1.34	2.38E-04
IGFBP7	Down	-1.36	1.66E-05
IGFBPL1	Down	-4.52	8.88E-18
IGFLR1	Up	2.7	1.17E-04
IGLL5	Up	9.65	2.43E-02
IGSF1	Down	-1.98	1.62E-02
IGSF10	Up	2.98	8.95E-04
IGSF3	Up	3	4.51E-02
IGSF6	Up	3.56	9.52E-04
IGSF9B	Down	-3.03	6.33E-21
IKBIP	Up	1.32	4.42E-03
IKBKE	Up	2.5	2.64E-08
IKZF1	Up	3.65	1.79E-05
IKZF3	Up	4.66	6.77E-04
IL10	Up	4.54	9.36E-04
IL10RA	Up	2.24	1.04E-05
IL10RB	Up	1.25	3.66E-04
IL12RB1	Up	2.52	8.04E-04
IL12RB2	Up	1.75	4.96E-02

IL13RA2	Up	4.76	5.00E-05
IL16	Up	1.24	4.94E-03
IL17B	Down	-4.03	2.91E-07
IL17RE	Down	-1.33	5.21E-03
IL17REL	Up	4.91	2.67E-02
IL18	Up	3.11	2.82E-04
IL18R1	Up	2.4	1.99E-07
IL18RAP	Up	2.47	9.75E-03
IL1B	Up	5.21	1.09E-02
IL1R2	Up	2.41	2.44E-03
IL1RL2	Up	4.8	4.35E-07
IL21R	Up	5.15	2.97E-03
IL27RA	Up	1.28	6.95E-03
IL2RA	Up	4.89	8.82E-05
IL2RB	Up	2.86	5.36E-05
IL2RG	Up	4.33	2.98E-04
IL32	Up	1.98	1.73E-05
IL34	Up	1.92	1.08E-02
IL4I1	Up	2.22	4.54E-02
IL6	Up	2.63	4.38E-02
IL7R	Up	5.13	5.81E-06
ILK	Down	-2.07	2.29E-13
IMPA2	Down	-1.3	4.58E-04
IMPAD1	Down	-1.05	1.12E-04
INAFM2	Down	-1.47	3.02E-06
INHBA	Down	-2.71	1.23E-20
INMT	Down	-1.78	3.77E-05
INPP4B	Down	-1.5	3.22E-07
INPP5A	Down	-1.55	1.18E-07
INPP5D	Up	2.06	1.35E-09
INSRR	Up	3.53	1.32E-02
IP6K3	Down	-3.14	1.50E-04
IPO5	Down	-1.3	2.29E-06
IPO7	Down	-1.1	6.04E-05
IQCA1	Up	3.35	2.43E-03
IQGAP2	Up	2.68	1.05E-04
IQGAP3	Up	3.39	1.93E-02
IQSEC3	Up	1.9	1.16E-03
IRF4	Up	4.13	1.62E-02
IRF5	Up	2.01	3.15E-05
IRF7	Up	2.39	4.42E-08
IRF8	Up	3.22	1.08E-04
IRX1	Up	3.22	9.58E-05
IRX3	Up	3.39	1.61E-05
IRX5	Up	3.34	2.49E-06
IRX6	Up	2.66	1.30E-02

ISG20	Up	2.97	1.38E-03
ITGA1	Down	-1.98	1.85E-12
ITGA2B	Up	2.32	1.55E-02
ITGA3	Down	-1.81	2.47E-08
ITGA4	Up	3.43	1.18E-23
ITGA5	Down	-1.78	4.37E-05
ITGA6	Up	1.19	1.40E-02
ITGA7	Down	-3.13	3.27E-26
ITGA8	Down	-3.24	1.72E-26
ITGAD	Up	9.16	2.89E-03
ITGAL	Up	3.28	1.68E-06
ITGAM	Up	1.24	1.84E-02
ITGAX	Up	3.79	6.07E-06
ITGB1	Down	-1.12	3.43E-05
ITGB1BP2	Down	-1.65	4.76E-03
ITGB2	Up	2.53	1.10E-07
ITGB7	Up	3.32	2.78E-04
ITIH1	Down	-5.23	1.52E-09
ITIH3	Down	-5.66	1.54E-57
ITIH4	Down	-3.16	5.48E-10
ITIH5	Down	-3.44	9.74E-30
ITK	Up	4.25	5.50E-04
ITM2A	Up	1.24	1.23E-02
ITM2C	Down	-1.79	1.27E-10
ITPK1	Down	-1.37	5.98E-06
ITPKB	Up	1.6	4.80E-02
ITPR1	Down	-2.19	6.20E-15
ITPR2	Up	1.46	2.49E-02
ITPR3	Up	1.72	7.05E-09
ITPRIPL1	Up	3	1.28E-02
IZUMO1	Up	2.89	3.91E-02
JAK2	Down	-2.09	3.30E-13
JAK3	Up	3.09	9.18E-11
JAKMIP1	Up	3.75	7.80E-03
JAKMIP2	Up	3.53	4.73E-04
JAM3	Down	-1.68	3.99E-09
JAML	Up	2.49	2.28E-06
JAZF1	Down	-1.15	1.68E-04
JCHAIN	Up	9.69	3.97E-02
JDP2	Up	1.55	3.28E-07
JPH2	Down	-4.6	1.44E-47
JPH4	Down	-2.62	1.95E-02
JPT1	Up	1.81	2.80E-04
JSRP1	Up	Inf	4.64E-02
JTB	Up	1.05	1.08E-02
KANK1	Down	-1.97	4.48E-12

KANK2	Down	-2.38	3.77E-17
KATNAL1	Down	-1.64	3.58E-08
KAZN	Up	2.62	1.56E-04
KBTBD12	Down	-2.41	1.14E-06
KBTBD13	Down	-4.81	3.21E-07
KBTBD8	Up	1.32	3.53E-02
KCNA1	Up	5.9	3.53E-06
KCNA3	Up	4.29	8.47E-03
KCNA5	Down	-3.74	1.29E-09
KCNA6	Down	-1.81	5.88E-05
KCNAB1	Down	-3.62	4.71E-10
KCNAB2	Up	1.87	1.13E-06
KCNAB3	Up	3.56	2.14E-05
KCNB1	Down	-1.57	1.72E-05
KCNC3	Up	2.72	4.75E-04
KCND3	Down	-3.04	1.13E-21
KCNE3	Up	2.02	2.03E-03
KCNE4	Down	-1.14	1.13E-02
KCNG1	Up	3.27	1.24E-03
KCNH1	Up	3.94	1.99E-02
KCNH2	Down	-5.39	8.25E-51
KCNIP3	Down	-1.09	9.04E-03
KCNIP4	Up	2.43	4.76E-02
KCNJ12	Down	-1.06	2.80E-02
KCNJ15	Up	2.46	9.42E-03
KCNJ16	Up	6.38	1.87E-03
KCNJ2	Up	1.95	4.52E-04
KCNJ3	Down	-6.26	2.17E-31
KCNJ5	Up	2.33	1.38E-04
KCNJ8	Down	-1.16	6.73E-04
KCNK13	Up	4.83	3.21E-02
KCNK2	Up	4.51	5.94E-05
KCNK3	Down	-2.83	9.63E-14
KCNK5	Up	1.71	4.46E-02
KCNMA1	Down	-2.32	1.11E-16
KCNMB1	Down	-4.37	5.94E-39
KCNMB4	Up	1.33	2.21E-02
KCNN3	Up	2.04	6.86E-03
KCNQ1	Up	3.21	4.63E-02
KCNQ3	Down	-1.25	4.78E-03
KCNQ4	Down	-3.37	3.50E-18
KCNT1	Down	-2.09	1.56E-03
KCP	Up	3.54	1.18E-05
KCTD10	Down	-1.34	2.07E-06
KCTD12	Up	1.7	1.35E-03
KCTD15	Down	-1.07	1.13E-03

KCTD16	Down	-4.82	2.15E-04
KCTD21	Down	-1.23	1.88E-04
KCTD9	Down	-1.02	6.33E-04
KDEL3	Up	3.52	2.08E-04
KDR	Up	1.25	3.07E-02
KERA	Up	6.57	2.68E-02
KHDRBS2	Up	2.88	2.36E-02
KHDRBS3	Down	-1.77	7.76E-07
KIAA1024	Up	3.03	5.91E-06
KIAA1211L	Up	2.77	1.07E-07
KIAA1217	Up	2.01	5.14E-03
KIAA1324L	Down	-1.17	5.17E-04
KIAA1549	Up	2.64	8.09E-08
KIAA1549L	Up	3.48	1.80E-02
KIF11	Up	2.2	3.73E-02
KIF13A	Down	-1.64	4.22E-09
KIF14	Up	3.47	7.10E-03
KIF15	Up	2.84	5.83E-03
KIF18B	Up	4.63	4.65E-03
KIF1A	Up	2.59	1.22E-02
KIF1C	Down	-1.31	2.12E-06
KIF20A	Up	4.73	4.16E-03
KIF21B	Up	1.78	1.13E-06
KIF24	Up	1.71	7.51E-03
KIF25	Up	Inf	5.84E-03
KIF26A	Up	1.05	4.32E-02
KIF26B	Up	4.99	1.22E-05
KIF2C	Up	1.81	3.24E-02
KIF4A	Up	3.81	8.45E-03
KIF5B	Down	-1.69	9.95E-10
KIFC1	Up	3.64	1.14E-02
KIT	Up	4.49	2.74E-02
KITLG	Up	1.15	1.32E-02
KLC2	Down	-1.08	9.13E-04
KLF11	Down	-1.58	7.17E-08
KLF4	Up	1.16	4.67E-03
KLF8	Down	-1.08	2.39E-04
KLHDC7A	Up	Inf	3.00E-02
KLHDC7B	Up	3.65	2.09E-02
KLHL10	Down	-3.48	2.04E-02
KLHL13	Down	-1.04	2.09E-02
KLHL14	Up	4.17	4.33E-08
KLHL29	Down	-1.01	3.26E-03
KLHL30	Down	-3.52	9.30E-10
KLHL31	Up	2.75	6.40E-03
KLHL38	Down	-2.45	1.15E-03

KLHL42	Down	-1.82	3.64E-10
KLHL6	Up	3.84	1.17E-08
KLRB1	Up	3.73	1.53E-04
KLRC1	Up	4.72	1.93E-02
KLRC3	Up	4.07	3.24E-02
KLRD1	Up	2.17	1.16E-02
KLRG1	Up	2.59	7.07E-03
KMO	Up	5.79	5.97E-05
KMT5A	Down	-1.2	6.75E-05
KNDC1	Up	3.1	9.22E-04
KNL1	Up	4.73	3.43E-04
KPNA3	Down	-1	5.93E-04
KPNA4	Down	-1.36	1.19E-06
KPTN	Up	1.41	9.66E-03
KRT10	Up	1.14	1.87E-02
KRT5	Up	Inf	2.24E-02
KRT73	Up	Inf	5.54E-03
KSR2	Up	3.12	3.86E-02
KY	Down	-3.1	2.28E-04
KYNU	Up	2.41	1.29E-05
LICAM	Down	-1.19	2.54E-03
L1TD1	Up	3.09	4.62E-02
LACRT	Up	13.75	1.14E-02
LAG3	Up	1.94	3.49E-02
LAIR1	Up	2.4	2.81E-04
LAMA1	Up	2.8	4.59E-06
LAMA5	Down	-1.53	2.68E-07
LAMB1	Up	2.13	1.25E-03
LAMB3	Up	2.26	2.02E-02
LAMP3	Up	7.23	3.04E-08
LAMP5	Up	3.55	1.01E-02
LANCL3	Up	2.34	1.50E-02
LAPTM5	Up	3.25	2.92E-07
LARGE1	Down	-2.2	1.50E-13
LARGE2	Up	Inf	3.15E-02
LARP6	Down	-1.06	1.87E-03
LAT	Down	-1.01	6.73E-03
LAT2	Up	2.12	5.28E-05
LATS2	Down	-1.01	4.67E-04
LAX1	Up	3.87	9.68E-03
LBHD1	Up	1.93	1.59E-02
LBR	Down	-1.07	2.78E-04
LCK	Up	4.09	4.55E-04
LCN1	Up	13.5	1.25E-02
LCN2	Up	Inf	2.44E-02
LCP1	Up	2.88	1.46E-07

LCP2	Up	2.46	5.47E-06
LDB2	Up	1.57	2.21E-02
LDB3	Down	-2.97	1.78E-11
LDHA	Down	-1.16	2.33E-05
LDLRAD3	Up	2.45	1.08E-05
LDLRAP1	Up	1.08	4.57E-03
LDOC1	Down	-2.51	2.19E-15
LEF1	Up	5.56	7.10E-05
LEFTY2	Down	-3.28	5.63E-05
LEP	Down	-2.73	1.86E-02
LEPR	Up	2.8	1.73E-04
LETM2	Up	1.47	4.04E-02
LGALS9	Up	2.59	5.04E-06
LGI1	Down	-2.35	7.46E-04
LGI2	Down	-2.48	2.67E-05
LGI3	Down	-2.7	1.91E-02
LGI4	Down	-1.28	3.02E-05
LGMN	Up	1.21	3.53E-03
LHX9	Down	-8.69	1.24E-14
LIF	Up	3.32	1.30E-07
LIG1	Up	1.21	2.43E-03
LILRA1	Up	2.33	3.25E-02
LILRA4	Up	Inf	4.78E-03
LILRA5	Up	3.14	2.45E-02
LILRB1	Up	3.68	1.12E-03
LILRB2	Up	2.51	9.77E-04
LILRB3	Up	2.91	6.37E-03
LILRB4	Up	3.38	1.83E-04
LILRB5	Up	2.28	2.21E-02
LIMD2	Up	2.96	2.53E-06
LIME1	Up	1.09	2.13E-02
LIMK1	Up	1.43	3.78E-05
LIMS2	Down	-2.37	3.12E-16
LINGO4	Up	Inf	4.90E-02
LIPA	Up	1.78	1.16E-02
LIPC	Up	2.58	3.38E-02
LIPE	Up	1.28	4.62E-02
LIPG	Up	4.73	9.80E-03
LMCD1	Down	-1.04	3.53E-04
LMNB1	Up	2.85	2.98E-05
LMNTD2	Up	2.11	2.52E-02
LMO1	Down	-3.92	3.84E-03
LMO2	Up	1.18	3.02E-02
LMO3	Down	-1.49	5.65E-03
LMO7DN	Up	2.98	1.49E-02
LMOD1	Down	-4.39	3.75E-37

LNP1	Down	-1.17	1.48E-02
LNPEP	Down	-1.27	3.62E-06
LOC100505549	Up	1.54	5.26E-03
LOC100506571	Up	1.22	3.17E-03
LOC100507507	Down	-1.1	2.18E-02
LOC100996693	Down	-4.46	2.05E-03
LOC105369205	Down	-3.56	4.69E-06
LOC105370641	Up	1.78	6.83E-03
LOC105373154	Up	5.38	3.33E-04
LOC105373244	Down	-2.43	1.80E-03
LOC105374378	Down	-2.84	1.47E-02
LOC105376917	Up	2.34	4.07E-03
LOC105378189	Up	3	4.99E-03
LOC105378862	Down	-2.36	2.75E-04
LOC105379177	Up	1.02	1.18E-02
LOC107984115	Up	1.17	4.19E-02
LOC107984512	Down	#NAME?	5.16E-04
LOC107984817	Up	2.14	4.92E-02
LOC107985184	Down	-3.58	1.10E-12
LOC107985678	Up	1.5	7.72E-05
LOC107986163	Down	-2.13	3.19E-05
LOC107986453	Up	Inf	7.73E-03
LOC107986754	Down	-1.21	4.39E-02
LOC107986838	Down	-1.9	1.08E-02
LOC283710	Up	Inf	9.53E-03
LOC400499	Up	1.12	2.94E-02
LOC400927-CSNK1E	Up	1.45	1.78E-02
LOC653513	Down	-1.04	1.83E-02
LONRF2	Down	-1.8	9.82E-10
LPAR2	Up	2.85	1.61E-06
LPAR3	Up	Inf	2.16E-04
LPAR4	Up	2.2	7.68E-03
LPAR5	Up	1.8	5.74E-03
LPAR6	Up	1.02	1.13E-03
LPCAT2	Up	1.16	4.20E-04
LPL	Up	2.81	1.43E-03
LPO	Up	13.63	1.58E-02
LPP	Down	-3.26	3.51E-29
LRCH2	Down	-1.15	1.30E-03
LRCH4	Up	1.02	1.38E-03
LRFN1	Up	2.22	1.30E-02
LRFN5	Up	7.94	5.60E-12
LRGUK	Up	1.8	5.76E-03
LRIG1	Down	-1.19	2.04E-05
LRMP	Up	2.48	2.61E-06
LRP1B	Up	2.76	2.05E-04

LRP5L	Up	1.04	3.16E-03
LRP8	Up	1.23	9.02E-03
LRRC17	Up	1.9	2.98E-03
LRRC18	Up	5.91	3.36E-04
LRRC25	Up	2.69	2.57E-03
LRRC26	Up	11.77	2.63E-02
LRRC36	Up	4.98	2.20E-02
LRRC4	Up	3	3.10E-02
LRRC45	Up	1.44	1.62E-03
LRRC4B	Down	-3.38	9.31E-25
LRRC4C	Up	1.87	2.31E-03
LRRC55	Up	6.38	9.55E-06
LRRC56	Up	1.87	1.02E-02
LRRC61	Up	1.62	2.84E-02
LRRC70	Up	1.17	4.36E-02
LRRC71	Up	5.83	4.61E-04
LRRC8A	Down	-1.02	3.92E-04
LRRC8D	Up	1.25	3.56E-03
LRRC8E	Up	6.44	2.73E-04
LRRFIP1	Down	-1.49	9.68E-08
LRRN1	Up	3.49	4.10E-04
LRRTM2	Up	2.37	3.65E-02
LSAMP	Up	2.04	9.82E-03
LSP1	Up	2.01	1.98E-04
LST1	Up	2.15	3.19E-03
LTB	Up	4.48	6.83E-03
LTB4R	Up	1.97	3.01E-05
LTBP1	Down	-1.67	1.95E-09
LTBP2	Down	-1.45	1.97E-05
LTF	Up	12	2.07E-02
LTK	Up	4.87	2.26E-02
LUM	Up	2.94	1.54E-03
LURAP1	Down	-1.15	1.32E-02
LURAP1L	Down	-1.21	1.82E-04
LUZP2	Down	-1.73	7.90E-04
LVRN	Up	2.18	2.11E-02
LXN	Up	1.95	2.57E-05
LY6E	Up	1.43	2.93E-04
LY75	Up	1.7	2.69E-02
LY86	Up	3.41	4.02E-05
LY9	Up	5.76	2.81E-04
LY96	Up	1.89	5.02E-03
LYN	Up	2.53	2.23E-13
LYPD3	Up	2.01	3.56E-02
LYZ	Up	11.63	2.31E-02
LZTS1	Up	2.73	2.79E-03

LZTS2	Down	-1.38	1.85E-06
MACF1	Down	-1.34	7.34E-07
MACROD2	Down	-2.55	4.67E-10
MAF	Up	1.96	9.05E-07
MAF1	Down	-1.11	1.34E-04
MAFB	Up	2.72	1.46E-04
MAFF	Down	-1.06	2.45E-02
MAFK	Down	-1.83	5.46E-10
MAGED4	Up	6.34	2.38E-02
MAGEE1	Down	-1.47	7.77E-04
MAGEL2	Up	Inf	1.26E-06
MAGI2	Down	-1.44	8.06E-06
MALRD1	Up	1.62	6.36E-03
MAMDC4	Up	1.1	1.54E-02
MAN2B1	Up	1.06	2.82E-04
MAOB	Down	-3.51	2.02E-29
MAP10	Up	1.39	1.89E-02
MAP1B	Down	-2.39	1.89E-17
MAP1LC3C	Up	3.72	1.78E-02
MAP2	Down	-1.66	2.93E-07
MAP2K6	Up	1.42	5.95E-04
MAP3K1	Up	1.72	7.98E-05
MAP3K20	Down	-2.3	9.29E-16
MAP3K7CL	Down	-3.43	4.92E-05
MAP4	Down	-1.16	2.12E-05
MAP4K1	Up	2.89	4.94E-06
MAP4K4	Up	1.17	4.47E-02
MAP6	Down	-1.75	9.74E-07
MAP7D1	Down	-1.37	1.36E-06
MAP7D3	Down	-1.83	2.39E-09
MAP9	Down	-1.19	2.47E-04
MAPK12	Up	1.64	3.99E-02
MAPK13	Up	3.47	3.11E-02
MAPK4	Down	-6.23	3.07E-53
MAPRE1	Down	-1.09	9.50E-05
MAPRE2	Down	-1.12	1.05E-04
MAPT	Down	-3.12	6.66E-20
1-Mar	Up	2.79	3.68E-08
2-Mar	Down	-1.3	5.41E-05
3-Mar	Up	2.02	2.51E-06
MARCKS	Up	2.9	1.14E-06
MARCKSL1	Up	2.74	1.20E-07
MARK1	Down	-1.84	8.94E-09
MARVELD1	Down	-1.35	1.78E-06
MARVELD3	Up	Inf	4.22E-02
MAS1	Down	-3.23	1.62E-04

MAST3	Up	1.29	6.56E-05
MATK	Up	3.71	3.00E-03
MATN2	Down	-1.06	1.37E-04
MATN3	Up	1.56	2.99E-02
MATN4	Up	4.43	5.00E-03
MBNL1	Down	-1.87	1.69E-11
MBNL3	Up	2.28	8.50E-06
MC1R	Up	2.03	3.61E-04
MCAM	Down	-2.93	2.50E-24
MCC	Up	2	7.66E-06
MCF2L2	Up	3.47	9.38E-03
MCHR1	Down	-2.27	1.46E-02
MCM10	Up	2.92	2.01E-02
MCOLN1	Up	1.06	8.42E-03
MCOLN2	Up	4.78	3.54E-05
MCTP2	Up	3.46	3.86E-02
MCUB	Up	1.43	5.31E-03
MDFIC	Up	1.52	1.72E-07
MDK	Up	3.58	2.76E-06
MEF2D	Down	-1.05	1.43E-04
MEFV	Up	2.59	3.53E-03
MEGF9	Down	-1.16	9.38E-05
MEI1	Up	3.73	4.02E-02
MELK	Up	3.51	7.38E-03
MELTF	Up	4.75	4.14E-03
MEOX1	Down	-1.4	5.33E-03
MEOX2	Down	-2.31	6.83E-13
MEPE	Up	8.35	3.13E-02
MESP2	Up	Inf	2.60E-02
MEST	Up	1.5	7.98E-03
METAP1	Down	-1.02	6.43E-04
METTL21A	Up	1.13	1.28E-02
METTL24	Down	-2.99	4.22E-17
MEX3A	Up	3.68	1.57E-03
MFAP2	Up	1.92	2.42E-04
MFAP4	Down	-1.77	8.77E-07
MFGE8	Down	-1.93	7.37E-12
MFHAS1	Down	-1.16	1.37E-04
MFN2	Down	-1.56	3.09E-08
MFSD1	Up	1.12	1.75E-04
MFSD2A	Up	2.96	1.32E-02
MGAM	Up	2.23	3.53E-03
MGAT4A	Up	1.04	4.26E-04
MGAT4C	Down	-3.88	2.28E-03
MGST1	Up	2.04	1.63E-02
MGST3	Down	-1.24	4.82E-05

MICA	Down	-1.14	1.14E-03
MICAL1	Down	-1.67	4.15E-06
MICAL2	Down	-1.41	7.10E-04
MICAL3	Down	-1.94	2.05E-11
MICALL1	Down	-1.35	4.37E-06
MID2	Down	-1.29	1.47E-05
MIF4GD	Down	-1.01	9.19E-03
MILR1	Up	1.53	2.86E-03
MINDY2	Down	-1.31	3.76E-06
MINDY4	Down	-1.36	2.52E-05
MIR1-1HG	Down	-4.9	1.93E-05
MIS18BP1	Up	1.12	4.96E-04
MITF	Down	-1.68	3.79E-08
MKI67	Up	4.57	2.88E-03
MKX	Down	-3.25	5.80E-24
MLKL	Up	1.86	9.49E-07
MLLT11	Up	3.41	1.84E-06
MLXIP	Down	-1.08	8.50E-05
MLXIPL	Up	3.11	9.84E-04
MME	Up	3.9	3.13E-05
MMP13	Up	8.72	1.86E-02
MMP14	Up	1.84	1.11E-02
MMP16	Up	2.81	3.94E-04
MMP17	Up	2.53	6.22E-05
MMP19	Up	2.7	8.24E-14
MMP2	Up	2.94	1.56E-07
MMP25	Up	2.45	1.41E-03
MMP28	Down	-1.37	9.63E-05
MOAP1	Down	-1.36	1.94E-05
MOB2	Down	-1.54	1.05E-06
MOV10L1	Up	1.83	6.65E-03
MPDU1	Up	1.55	7.41E-05
MPEG1	Up	3.18	3.06E-04
MPIG6B	Up	3.49	7.68E-03
MPP2	Down	-2.22	1.08E-09
MPP7	Down	-2.58	9.14E-19
MPPED2	Up	1.92	1.20E-02
MPV17L	Down	-1.26	5.01E-03
MPZL3	Up	3.41	1.99E-02
MRAP2	Up	1.56	1.34E-02
MRAS	Down	-1.59	3.28E-08
MRC1	Up	1.85	1.61E-02
MRC2	Up	2.99	2.38E-03
MREG	Up	2.09	2.24E-03
MRGPRE	Down	-3.05	3.99E-02
MRGPRF	Down	-2.62	9.74E-09

MRO	Up	3.9	1.90E-04
MROH7	Down	-1.18	7.11E-04
MRPL10	Down	-1.07	2.38E-03
MRPS6	Down	-1.67	1.71E-06
MRVI1	Down	-3.47	2.45E-31
MS4A1	Up	6.87	3.45E-03
MS4A14	Up	2.25	1.72E-03
MS4A2	Up	2.38	4.28E-02
MS4A4A	Up	2.25	5.50E-03
MS4A4E	Up	1.65	2.46E-02
MS4A6A	Up	2.17	1.36E-02
MS4A7	Up	2.87	3.47E-04
MSI1	Up	3.57	1.87E-04
MSLN	Up	9.89	4.64E-02
MSR1	Up	2.3	1.12E-02
MSRB1	Down	-2.04	2.00E-09
MSRB2	Down	-1.58	9.50E-06
MSRB3	Down	-2.94	3.78E-24
MST1	Up	1.19	1.15E-02
MSTN	Down	-1.63	4.55E-02
MSX1	Down	-1.92	3.81E-08
MSX2	Down	-1.82	7.12E-03
MTCL1	Down	-1.91	3.73E-10
MTFR1L	Down	-1	8.78E-04
MTHFD1L	Down	-1.83	6.67E-09
MTMR11	Down	-1.02	1.64E-03
MTMR8	Down	-2.07	3.08E-06
MTSS1L	Down	-1.06	1.20E-02
MTURN	Down	-1.38	6.29E-07
MTUS2	Down	-2.66	1.25E-04
MUC1	Down	-1.67	1.26E-04
MUC15	Up	10.35	4.96E-02
MUC16	Up	10.33	3.80E-02
MUC7	Up	Inf	3.51E-02
MUM1L1	Down	-4.08	2.09E-09
MUSTN1	Down	-2.09	4.28E-03
MX2	Up	1.13	2.63E-02
MXI1	Down	-1.55	1.60E-07
MXRA5	Up	3.95	3.82E-14
MXRA7	Down	-2.63	1.06E-14
MYADM	Down	-1.42	2.93E-07
MYBL2	Up	3.35	8.92E-03
MYC	Up	1.63	1.86E-07
MYCL	Up	3.42	4.79E-05
MYD88	Up	1	2.81E-03
MYDGF	Up	1.38	6.23E-03

MYEF2	Down	-1.88	1.61E-09
MYH10	Down	-3.03	1.05E-25
MYH11	Down	-5.01	4.55E-57
MYH9	Down	-1.09	5.70E-05
MYL6	Down	-1.93	2.73E-12
MYL9	Down	-4.26	1.57E-44
MYLK	Down	-3.38	2.45E-31
MYO18B	Down	-6.62	2.45E-25
MYO1B	Up	2.08	2.17E-02
MYO1C	Down	-1.33	1.11E-06
MYO1D	Down	-1.32	1.20E-06
MYO1F	Up	2.53	7.26E-08
MYO1G	Up	3.09	8.87E-07
MYO3A	Down	-3.67	2.56E-08
MYO5C	Up	1.39	4.64E-03
MYO7A	Up	1.3	9.46E-03
MYOCD	Down	-4.96	1.23E-28
MYOM1	Down	-3.24	2.04E-26
MYOT	Down	-2.75	1.06E-03
MYOZ1	Down	-2.83	1.83E-07
MYOZ2	Down	-3.37	4.94E-08
MYRF	Down	-3.57	8.17E-18
MYRFL	Up	2.79	2.37E-02
MYT1L	Down	-4.87	1.51E-03
MZB1	Up	7.23	2.73E-02
N4BP2	Up	1.18	4.27E-04
N4BP3	Up	1.64	7.15E-05
NAALAD2	Up	1.13	1.86E-02
NABP1	Up	1.87	1.08E-07
NACC2	Down	-2.55	1.06E-18
NAF1	Down	-1.16	1.12E-04
NAGS	Up	2.74	2.10E-02
NAIP	Up	2.17	9.52E-05
NALCN	Down	-2.49	4.85E-04
NANS	Up	1.29	4.07E-02
NAP1L3	Down	-1.57	4.10E-05
NAP1L5	Down	-1.21	2.00E-03
NAV1	Up	1.06	4.50E-02
NAV2	Down	-1.28	3.03E-06
NAV3	Up	3.07	1.37E-09
NBEAL1	Down	-1.14	4.43E-05
NBEAL2	Up	1.02	4.33E-04
NCAM2	Up	2.37	3.17E-02
NCAPG	Up	4.92	2.13E-04
NCAPH	Up	2.1	2.17E-02
NCCRP1	Up	Inf	1.62E-02

NCF1	Up	2.07	5.82E-03
NCF2	Up	1.28	2.83E-02
NCF4	Up	1.95	2.88E-05
NCKAP1	Down	-1.35	9.92E-07
NCKAP5	Up	1.42	1.64E-02
NCS1	Down	-3.01	2.28E-24
NDC80	Up	1.84	1.08E-02
NDNF	Up	3.47	4.76E-04
NDUFA4	Down	-1.67	4.83E-09
NDUFAF4	Down	-1.58	5.82E-05
NEB	Up	2.62	1.07E-08
NEGR1	Down	-1.04	6.62E-03
NEIL3	Up	3.7	3.22E-02
NEK2	Up	4.08	1.55E-02
NEK7	Down	-1.31	3.76E-06
NEK8	Up	1.78	4.34E-03
NELL2	Up	6.17	6.50E-07
NES	Down	-1.48	1.97E-05
NETO2	Up	3.27	1.01E-05
NEXMIF	Down	-1.8	1.38E-04
NEXN	Down	-3.47	3.02E-29
NFAM1	Up	2.97	6.91E-06
NFASC	Down	-2.1	1.74E-06
NFATC2	Up	1.11	1.81E-04
NFE2L3	Up	2.06	1.20E-02
NFIA	Down	-1.3	2.22E-06
NFKBIA	Up	1.15	7.73E-04
NFKBID	Up	1.62	1.46E-04
NFKBIE	Up	1.44	3.56E-03
NFYB	Down	-1.13	2.78E-04
NGEF	Up	1.25	3.39E-02
NGRN	Down	-1.12	9.76E-05
NHS	Down	-1.18	7.10E-05
NHSL1	Up	1.15	1.55E-03
NID2	Up	1.34	1.86E-02
NINJ2	Up	1.61	3.89E-02
NINL	Up	1.45	4.01E-04
NIPAL3	Up	2.41	1.46E-02
NIPSNAP2	Down	-1.04	4.39E-04
NIPSNAP3B	Down	-1.74	3.31E-06
NKD1	Down	-2.99	4.51E-16
NKD2	Up	4.58	1.68E-02
NKG7	Up	2.09	2.79E-02
NLGN1	Down	-2.03	5.86E-10
NLGN3	Down	-1.08	2.33E-02
NLN	Down	-1.01	2.24E-03

NLRC3	Up	3.14	5.92E-07
NLRC4	Up	3.11	1.57E-04
NLRP2	Up	3.84	1.16E-02
NLRP3	Up	2.59	1.04E-04
NLRP6	Up	4.5	2.30E-03
NMUR1	Down	-2.22	3.06E-05
NNMT	Up	1.43	2.04E-06
NOD2	Up	1.55	6.92E-03
NOL4L	Up	1.42	8.96E-06
NOMO3	Down	-2.12	3.56E-05
NOS1AP	Down	-1.13	1.12E-03
NOSTRIN	Up	1.27	2.30E-02
NOTCH4	Up	1.21	4.50E-02
NOV	Down	-4.82	1.68E-49
NPAS4	Down	-3.92	6.96E-18
NPC1L1	Down	-2.16	1.29E-02
NPC2	Up	1.29	1.76E-05
NPHS1	Up	Inf	2.95E-02
NPIPA5	Up	1.62	8.61E-03
NPL	Up	3.14	2.18E-05
NPM2	Up	3.1	3.35E-03
NPNT	Down	-3.4	1.20E-30
NPPC	Up	5.39	3.92E-03
NPTN	Down	-1.4	7.00E-07
NPTXR	Down	-1.3	1.84E-04
NPY1R	Down	-3.43	4.04E-13
NPY5R	Down	-2.19	2.02E-05
NR1D1	Down	-3.14	6.76E-05
NR1D2	Down	-1.91	7.02E-11
NR1H3	Up	1.25	2.38E-02
NR2F1	Up	1.38	9.01E-04
NR2F2	Down	-1.49	5.70E-06
NR4A1	Up	2.21	8.45E-03
NR4A2	Up	4.51	4.99E-02
NRCAM	Up	4.28	5.64E-08
NREP	Up	1.16	3.81E-02
NRG2	Up	2.46	1.69E-02
NRN1	Down	-2.38	7.12E-13
NRROS	Up	1.43	1.05E-03
NT5C1A	Down	-2.74	3.11E-04
NT5DC1	Down	-1.41	3.32E-06
NT5DC3	Down	-3.31	5.32E-26
NTF3	Down	-3.74	1.03E-16
NTNG1	Up	4.32	1.74E-04
NTNG2	Up	1.1	3.57E-02
NTRK3	Down	-3.34	9.04E-30

NUAK2	Up	2.26	1.42E-02
NUDT14	Up	1.49	3.03E-03
NUDT4	Up	1.04	1.23E-02
NUDT7	Down	-1.26	2.43E-02
NUF2	Up	2.98	9.28E-03
NUP210	Up	2.65	8.56E-04
NUSAP1	Up	4.06	5.61E-03
NXPH3	Down	-2.58	1.25E-07
NXPH4	Up	3.39	1.24E-02
OAF	Up	2.15	2.91E-05
OAS1	Up	2.03	7.10E-07
OAS2	Up	2.36	3.56E-07
OAS3	Up	2.01	3.34E-04
OBSCN	Up	2.08	6.50E-08
OCA2	Down	-3.41	1.46E-06
OCIAD2	Up	1.93	3.34E-03
ODAM	Up	7.88	4.90E-02
ODC1	Down	-1.06	2.86E-04
ODF2L	Up	1.89	1.73E-07
ODF3B	Up	1.63	2.78E-04
OGDH	Down	-1.01	3.25E-04
OGN	Up	2.07	5.40E-03
OIT3	Up	4.76	9.89E-03
OLFM2	Up	2.15	4.17E-05
OLFML2A	Up	1.73	1.77E-02
OLFML2B	Up	2.35	4.05E-02
OLR1	Up	3.97	1.98E-03
OMD	Up	3.22	4.08E-02
OPCML	Down	-1.17	1.92E-02
OPLAH	Up	1.15	3.98E-02
OPRPN	Up	13.4	1.30E-02
ORAI2	Up	1.96	8.42E-07
ORC1	Up	2.52	2.07E-02
OSBP2	Up	2.13	1.33E-03
OSBPL10	Down	-1.31	1.15E-05
OSBPL3	Up	3.1	1.04E-17
OSBPL6	Down	-1.31	5.86E-04
OSCAR	Up	2.95	2.58E-02
OSM	Up	2.89	3.47E-02
OSTC	Up	1.15	2.26E-03
OSTM1	Down	-1.25	3.77E-05
OTUB2	Up	2.52	3.48E-03
OTULINL	Up	1.29	4.86E-03
OVCH1	Up	1.37	3.08E-02
OXSRI	Down	-1	5.05E-04
P2RX1	Down	-6.3	9.83E-49

P2RX5	Up	6	3.14E-04
P2RY10	Up	4.55	3.92E-03
P2RY13	Up	2.04	1.52E-04
P3H1	Up	1.62	2.53E-02
P3H4	Up	1.79	9.39E-03
P4HA3	Up	3.92	4.76E-14
PABPC1L	Up	2.21	4.01E-07
PABPC5	Down	-1.05	3.29E-02
PACSIN3	Down	-1.18	4.06E-04
PAFAH1B3	Up	2.3	1.54E-03
PAK4	Up	1.03	2.83E-02
PALD1	Up	1.3	8.52E-03
PALLD	Down	-2.51	5.05E-19
PALMD	Up	1.51	1.36E-03
PANX2	Up	4.21	4.67E-05
PANX3	Up	Inf	1.11E-02
PAPD5	Down	-1.2	7.97E-05
PAPLN	Up	1.12	2.69E-02
PAPPA2	Down	-1.52	6.72E-03
PAPSS2	Up	1.55	4.80E-02
PAQR4	Up	2.62	1.75E-03
PARD6G	Up	1.89	9.90E-03
PARM1	Down	-2.31	4.86E-16
PARP15	Up	3.57	3.48E-04
PARP8	Up	1.2	5.05E-03
PARPBP	Up	1.73	5.89E-03
PARVA	Down	-1.69	1.17E-09
PARVG	Up	1.51	5.95E-04
PASK	Up	1.14	4.65E-03
PATL2	Up	2.44	2.99E-04
PAWR	Down	-2.26	3.26E-15
PAX1	Up	9.26	4.83E-04
PAX5	Up	6.07	2.20E-03
PAX6	Up	11.45	2.74E-02
PAX8	Up	2.19	4.44E-02
PBK	Up	4.45	8.11E-04
PBLD	Down	-1.73	4.79E-06
PBX1	Down	-1.06	9.92E-05
PBX4	Up	4.24	2.84E-04
PBXIP1	Down	-2.43	1.28E-17
PC	Up	2.53	4.87E-02
PCBD1	Down	-1.08	1.95E-03
PCBP3	Up	1.55	3.04E-02
PCDH12	Up	1.66	1.92E-02
PCDH15	Up	7.78	2.33E-03
PCDH17	Up	2.01	1.00E-03

PCDH20	Down	-3.13	2.58E-22
PCDH7	Down	-3.13	5.51E-27
PCDHGC3	Up	1.08	2.56E-03
PCED1A	Up	1.4	6.12E-05
PCED1B	Down	-1.14	1.72E-03
PCGF5	Down	-1.41	4.27E-07
PCLAF	Up	5.31	9.48E-03
PCNP	Down	-1.01	4.16E-04
PCNX2	Up	1.37	4.67E-05
PCOLCE	Up	3.55	1.26E-02
PCOLCE2	Down	-1.48	4.60E-02
PCP2	Up	Inf	5.61E-03
PCP4L1	Down	-1.16	2.70E-02
PCSK1	Up	1.73	4.22E-02
PCSK2	Down	-1.74	1.07E-02
PCSK9	Up	4.43	3.50E-03
PCYOX1	Down	-1.09	7.11E-05
PCYT1B	Down	-4.88	1.89E-03
PDCD1	Up	3.99	1.14E-02
PDCD4	Up	1.85	3.29E-02
PDCL3	Down	-1.56	5.91E-05
PDE1C	Down	-2.86	2.83E-19
PDE3A	Down	-1.69	4.33E-09
PDE3B	Up	2.95	2.91E-06
PDE4D	Down	-2.25	1.37E-15
PDE5A	Down	-1.38	8.84E-05
PDE6B	Up	2.24	4.95E-02
PDE7A	Up	1.54	1.06E-03
PDE8B	Down	-2.51	3.30E-07
PDE9A	Up	1.15	4.46E-03
PDGFA	Down	-1.19	8.77E-05
PDGFD	Up	2.37	4.28E-03
PDGFRA	Up	2.18	2.97E-06
PDGFRL	Up	2.28	1.66E-07
PDIA4	Up	1.6	2.65E-04
PDK3	Down	-1.5	1.80E-04
PDLIM3	Down	-3.62	6.50E-33
PDLIM5	Down	-1.52	2.12E-08
PDLIM7	Down	-2.82	2.83E-22
PDPN	Up	4.97	1.88E-12
PDZD4	Down	-1.74	1.14E-07
PDZRN3	Down	-1.66	9.39E-09
PDZRN4	Down	-2.73	1.18E-18
PEA15	Down	-1.18	2.33E-05
PEAK3	Up	3.05	1.77E-02
PEAR1	Up	1.29	1.96E-05

PELI3	Down	-1.08	1.68E-03
PELO	Down	-1.06	6.35E-04
PENK	Up	5.17	3.04E-02
PER3	Down	-2.35	1.05E-11
PERM1	Down	-3.54	6.86E-05
PF4	Up	3.21	1.22E-02
PFKFB4	Up	1.67	1.27E-03
PFKP	Down	-2.77	7.46E-21
PGAM2	Down	-3.52	2.23E-09
PGAP2	Up	1.07	7.76E-03
PGBD5	Up	3.75	1.96E-02
PGD	Up	1.6	4.05E-07
PGGHG	Up	1.86	5.43E-06
PGM3	Up	1.55	1.06E-02
PGM5	Down	-3.42	3.91E-30
PGPEP1L	Down	-4.62	5.06E-05
PGR	Down	-2.59	4.17E-18
PHACTR1	Up	1.4	2.37E-03
PHACTR3	Up	6.31	2.81E-03
PHEX	Up	5.66	4.03E-02
PHKG1	Down	-1.95	1.07E-04
PHLDA1	Up	4.92	1.18E-04
PHLDB2	Down	-1.3	4.39E-06
PHYHIP	Down	-3.32	1.54E-19
PI15	Down	-1.32	3.99E-04
PIANP	Up	3.83	2.95E-03
PIEZO1	Up	1.02	3.22E-03
PIEZO2	Up	4.65	3.84E-08
PIF1	Up	1.41	4.33E-02
PIGF	Up	1.06	1.07E-02
PIGR	Up	13.16	1.40E-02
PIK3AP1	Up	3.98	9.56E-03
PIK3CG	Up	2.13	6.65E-05
PIK3R3	Up	1.1	1.72E-02
PIK3R5	Up	2.68	3.75E-05
PIK3R6	Up	2.37	2.67E-04
PIP	Up	13.96	1.11E-02
PIP4K2C	Down	-1.1	4.18E-04
PIP5K1C	Down	-1.56	4.07E-08
PIPOX	Down	-2.1	3.50E-03
PITPNB	Down	-1.13	7.04E-05
PITPNC1	Up	1.77	5.31E-03
PITPNM3	Down	-1.62	6.44E-06
PJA2	Down	-1.16	2.08E-05
PKD1L2	Down	-2.77	2.94E-03
PKD2	Down	-1.75	6.84E-10

PKHD1L1	Up	3.8	2.97E-02
PKIB	Up	3.18	8.30E-03
PKIG	Down	-1.65	5.20E-08
PKMYT1	Up	4.01	1.42E-02
PLA2G15	Up	1.13	4.43E-03
PLA2G2D	Up	6.36	6.00E-03
PLA2G4C	Down	-1.05	3.13E-02
PLA2G4F	Up	6.85	2.25E-03
PLA2G7	Up	5.41	2.27E-04
PLAC8	Up	3.73	1.94E-03
PLAUR	Up	1.75	4.59E-03
PLB1	Up	1.2	1.13E-02
PLBD1	Up	2.55	7.61E-04
PLCB2	Up	2.55	4.60E-09
PLCB4	Down	-1.14	5.10E-05
PLCD4	Up	1.55	4.02E-03
PLCG2	Up	1.19	2.90E-03
PLD1	Up	1.67	1.22E-08
PLD4	Up	2.1	2.39E-02
PLD5	Down	-3.27	1.40E-14
PLEK	Up	2.92	8.80E-05
PLEK2	Up	4.37	7.75E-03
PLEKHA3	Down	-1.1	9.83E-05
PLEKHG1	Up	1.9	5.09E-04
PLEKHG3	Down	-1.7	3.37E-06
PLEKHG4	Up	1.69	5.17E-05
PLEKHG4B	Up	8.13	1.08E-04
PLEKHH2	Down	-1.08	4.09E-04
PLEKHO1	Down	-1.2	8.11E-05
PLEKHS1	Up	11.11	3.40E-02
PLIN4	Down	-1.56	3.95E-04
PLK1	Up	1.77	1.31E-02
PLN	Down	-4.28	2.53E-42
PLP2	Down	-1.48	1.29E-06
PLPP5	Up	1.74	3.80E-02
PLS3	Down	-1.34	1.12E-06
PLTP	Up	1.91	1.19E-07
PLXDC1	Up	1.66	1.69E-02
PLXNA4	Down	-2.38	9.35E-16
PLXNC1	Up	3.1	3.55E-04
PMAIP1	Up	3.75	1.41E-04
PNCK	Down	-5.92	3.10E-45
PNMA1	Down	-2.03	6.27E-12
PNMA8A	Down	-2	9.75E-07
PNOC	Up	Inf	2.03E-04
PNP	Up	1.4	2.13E-04

PNPLA3	Up	6.38	9.83E-06
PODXL	Up	1.22	2.98E-05
POLQ	Up	1.87	4.63E-02
PON3	Up	4.74	4.31E-02
POPDC2	Down	-1.76	1.81E-05
POSTN	Up	4.12	5.11E-03
POU2AF1	Up	7.72	5.83E-03
POU2F2	Up	1.98	8.00E-06
PPARG	Up	2.24	1.65E-03
PPARGC1A	Down	-1.72	2.37E-06
PPBP	Up	3.63	2.93E-03
PPFIA3	Up	1.47	1.20E-02
PPFIBP2	Up	1.29	3.31E-02
PIIB	Up	1.04	3.54E-03
PPL	Down	-1.17	6.29E-03
PPM1B	Down	-1.07	2.18E-04
PPP1CB	Down	-1.31	1.05E-06
PPP1R12A	Down	-2.14	3.91E-14
PPP1R12B	Down	-3.66	4.34E-35
PPP1R12C	Down	-1.54	6.34E-08
PPP1R14A	Down	-4.58	2.30E-44
PPP1R16B	Up	1.11	3.46E-02
PPP1R3B	Down	-2.75	2.52E-21
PPP1R3C	Down	-2.89	1.45E-19
PPP1R3G	Down	-2.33	1.02E-05
PPP2R2B	Down	-3.22	7.38E-19
PPP2R2C	Down	-6.62	1.69E-58
PRAG1	Up	1.56	2.85E-05
PRAM1	Up	2.04	1.16E-02
PRCD	Up	1.54	1.81E-03
PRCP	Up	1.11	1.15E-02
PRDM1	Up	3.64	3.34E-04
PRDM16	Down	-1.91	4.88E-06
PRDX4	Up	1.38	1.35E-04
PRELP	Down	-2.19	1.72E-07
PREX1	Up	2.91	1.74E-03
PRF1	Up	2.1	3.12E-02
PRICKLE1	Up	1.53	3.00E-06
PRIMA1	Down	-1.99	1.33E-06
PRKAA2	Down	-3.59	1.64E-31
PRKAB2	Down	-1.64	2.97E-08
PRKAG2	Down	-1.66	1.57E-08
PRKCA	Up	1.26	2.71E-05
PRKCB	Down	-2.48	1.95E-13
PRKCD	Down	-1.1	3.30E-04
PRKCH	Up	1.41	1.85E-06

PRKCQ	Up	3.44	3.67E-05
PRKCZ	Up	3.43	1.10E-03
PRKD1	Down	-1.05	5.53E-04
PRKD2	Up	1.04	5.77E-04
PRKG1	Down	-2.79	1.46E-21
PRKG2	Up	3.1	1.74E-02
PRKN	Down	-1.43	2.92E-04
PRKX	Up	1.59	5.88E-06
PRND	Up	7.21	1.17E-04
PROB1	Down	-2.08	9.21E-06
PROSER2	Up	2.3	8.82E-03
PRPH	Down	-1.79	2.29E-02
PRR11	Up	2.5	1.04E-02
PRR15L	Up	Inf	4.94E-02
PRR26	Down	-3.03	1.92E-06
PRR27	Up	Inf	1.49E-02
PRR4	Up	12.5	1.75E-02
PRR5	Up	2.79	4.46E-09
PRR5L	Up	1.26	8.04E-04
PRR7	Up	1.15	4.97E-02
PRRG3	Up	2.81	8.37E-03
PRSS8	Up	11.21	3.51E-02
PRUNE2	Down	-4.68	9.76E-51
PSD	Up	4.26	4.88E-06
PSD3	Up	1.61	1.30E-02
PSD4	Up	3.68	1.13E-02
PSTPIP1	Up	1.6	3.21E-04
PTAFR	Up	1.63	4.11E-03
PTBP2	Down	-1.06	3.30E-04
PTCH1	Up	1.58	2.41E-02
PTCH2	Up	2.17	1.56E-05
PTCHD1	Down	-6.11	1.14E-59
PTER	Up	1.2	1.88E-02
PTGER3	Down	-1.55	1.57E-05
PTGES	Up	2.5	3.46E-06
PTGES3L	Down	-3.38	2.32E-03
PTGIR	Down	-2.02	3.61E-06
PTGIS	Down	-2.89	1.18E-23
PTGS1	Up	1.19	2.09E-02
PTK2B	Up	1.18	1.34E-04
PTK7	Up	4.92	7.74E-11
PTN	Up	3.82	3.97E-04
PTP4A3	Down	-1.62	1.19E-07
PTPN11	Down	-1.58	1.20E-08
PTPN13	Up	1.13	8.04E-04
PTPN21	Down	-1.12	1.27E-04

PTPN22	Up	3.1	6.68E-07
PTPN6	Up	2.69	8.01E-10
PTPN7	Up	3.48	7.56E-08
PTPRC	Up	3.33	1.71E-04
PTPRCAP	Up	2.5	2.74E-03
PTPRE	Up	1.98	3.21E-04
PTPRJ	Up	1.29	1.65E-02
PTPRQ	Down	-5.39	1.68E-08
PTPRT	Up	2.9	4.95E-03
PTTG1	Up	2.73	4.12E-03
PVRIG	Up	3.58	2.29E-04
PXDC1	Down	-1.17	6.27E-05
PYCARD	Up	1.99	2.71E-04
PYCR1	Up	5.37	2.71E-04
PYGB	Down	-2.77	1.86E-22
PYGL	Up	1.25	2.09E-04
PYGM	Down	-3.16	2.13E-21
PYHIN1	Up	3.41	1.03E-03
QPCT	Up	1.99	4.70E-03
QPCTL	Up	1.14	3.37E-02
QPRT	Up	2.21	2.91E-03
QRICH2	Up	1.52	2.95E-04
RAB11FIP2	Down	-1.39	1.59E-06
RAB11FIP4	Up	4.7	1.17E-04
RAB15	Up	2.23	2.94E-02
RAB19	Up	6.06	2.72E-02
RAB20	Up	1.41	7.52E-03
RAB21	Down	-1.13	7.40E-05
RAB23	Down	-2.78	6.70E-21
RAB27B	Up	5.48	1.38E-03
RAB33A	Down	-2.44	2.79E-03
RAB33B	Down	-1.3	3.63E-05
RAB37	Up	2.31	1.90E-03
RAB39A	Up	2.87	5.98E-03
RAB3B	Up	4.24	4.94E-04
RAB42	Up	3.04	7.02E-05
RAB9B	Down	-3.96	2.10E-30
RAC2	Up	3.69	2.01E-07
RAC3	Up	4.02	1.15E-04
RAD51	Up	3.4	3.36E-03
RAD51B	Up	1.58	1.16E-02
RAD54L	Up	3.03	7.14E-03
RAI2	Down	-1.02	1.24E-03
RALGAPA2	Up	1.57	2.91E-03
RALGPS2	Up	2.27	5.12E-04
RAMP1	Down	-2.4	1.09E-09

RAP1A	Down	-2.17	3.87E-14
RAP2B	Up	1.02	9.53E-03
RAPGEF4	Up	1.78	1.73E-02
RARRES1	Up	3.29	5.52E-03
RARRES2	Down	-1.33	4.17E-04
RARRES3	Up	1.06	2.04E-02
RASAL2	Down	-1.31	2.72E-06
RASAL3	Up	2.33	2.00E-05
RASD1	Up	4.08	7.74E-10
RASD2	Down	-2.38	2.65E-09
RASGEF1B	Up	2.12	1.54E-09
RASGRF2	Up	1.67	2.28E-07
RASGRP1	Up	3.65	8.28E-04
RASGRP2	Down	-1.29	3.67E-04
RASGRP3	Up	2.17	5.23E-10
RASGRP4	Up	1.62	1.12E-02
RASL10A	Up	3.43	4.71E-03
RASL11A	Down	-1.99	2.55E-08
RASL11B	Down	-3.2	5.62E-13
RASL12	Down	-3.77	3.83E-34
RASSF3	Down	-3.37	2.07E-30
RASSF4	Up	1.58	2.67E-07
RASSF6	Up	Inf	3.43E-02
RASSF7	Up	2.67	3.56E-02
RAVER2	Down	-1.03	5.49E-04
RBFOX3	Down	-9.04	2.92E-06
RBM20	Down	-2.12	1.40E-08
RBM24	Down	-2.66	3.91E-13
RBM38	Down	-1.43	1.43E-04
RBM47	Up	4.58	3.99E-02
RBP4	Up	2.33	9.82E-03
RBP7	Up	1.26	4.21E-02
RBPMS	Down	-2.62	1.55E-19
RBPMS2	Down	-2.3	3.09E-06
RCAN2	Down	-2.35	1.00E-15
RCAN3	Up	2.22	3.47E-02
RCC1	Up	1.36	5.39E-03
RCC2	Up	1.51	4.50E-07
RCL1	Down	-1.55	3.66E-06
RCN3	Up	2.19	1.35E-02
RDH10	Up	1.04	4.09E-03
RDH5	Down	-2.09	4.83E-08
REC8	Up	1.27	1.14E-02
RECQL4	Up	2.1	3.81E-04
REEP1	Down	-3.27	3.48E-24
REEP2	Down	-2.98	7.99E-08

REEP4	Up	1.26	3.66E-03
RELL2	Up	1.41	3.69E-02
RELT	Up	2.42	7.35E-05
REM1	Down	-1.01	4.36E-02
RERG	Down	-3.36	8.13E-27
RERGL	Down	-2.57	1.11E-04
RET	Up	2.87	3.99E-04
RFTN2	Up	1.49	3.32E-03
RFX2	Down	-2.14	1.35E-04
RFX8	Up	3.8	2.90E-02
RGL1	Up	1.89	3.23E-04
RGN	Down	-2.08	6.30E-08
RGS1	Up	4.03	1.24E-05
RGS10	Up	2.25	2.65E-03
RGS16	Up	1.25	5.77E-03
RGS18	Up	2.93	1.11E-05
RGS2	Up	1.2	4.03E-04
RGS4	Down	-1.29	4.53E-02
RGS5	Down	-1.07	1.27E-04
RGS6	Down	-1.26	2.54E-02
RGS7BP	Down	-3.61	7.17E-27
RHBDF2	Up	2.03	1.40E-08
RHBDL2	Up	7.28	4.17E-02
RHCE	Up	3.48	3.89E-02
RHEX	Up	3.19	5.76E-03
RHOB	Down	-1.2	1.55E-05
RHOBTB3	Up	1.92	8.10E-04
RHOF	Up	2	6.67E-04
RHOH	Up	5.07	3.59E-04
RHOJ	Up	1.61	1.30E-02
RHOQ	Down	-1.64	4.80E-09
RHOU	Up	1.39	3.22E-02
RHPN1	Up	2.46	1.43E-07
RIBC2	Up	2.97	4.30E-02
RICTOR	Down	-1.13	5.11E-05
RIMKLB	Down	-1.7	1.66E-09
RIMS1	Down	-2.37	1.32E-03
RIMS2	Up	4.18	1.93E-03
RIMS3	Down	-3.24	4.76E-23
RINL	Up	1.73	2.35E-03
RIPK3	Up	1.28	8.36E-03
RIPOR2	Up	1.92	2.96E-03
RIPOR3	Up	2.41	1.61E-04
RMI1	Up	1.16	1.19E-02
RMI2	Up	2.32	4.89E-02
RNASE1	Up	1.09	1.21E-02

RNASE6	Up	2.15	2.44E-05
RNASEH1	Down	-1.02	6.24E-04
RNASET2	Up	1.93	4.63E-07
RND2	Down	-1.63	8.47E-03
RNF112	Down	-2.67	2.06E-10
RNF115	Down	-1.55	9.85E-08
RNF122	Up	1.54	9.76E-04
RNF125	Up	1.3	5.33E-03
RNF128	Up	5.9	4.73E-02
RNF144A	Up	2.57	2.46E-14
RNF144B	Up	1.48	8.21E-04
RNF150	Down	-1.22	3.83E-05
RNF157	Up	1.82	1.73E-03
RNF165	Down	-1.23	6.16E-03
RNF175	Up	4.34	2.08E-03
RNF180	Down	-2.33	1.86E-15
RNF24	Up	1.3	2.39E-05
RNFT1	Up	1.11	5.78E-03
ROCK1	Down	-1.67	2.49E-09
ROCK2	Down	-1.42	2.32E-07
ROR1	Down	-1.61	7.50E-08
RPH3AL	Up	1.27	1.89E-02
RPL22L1	Up	1.07	2.76E-02
RPL39L	Down	-1.52	9.07E-03
RPRM	Down	-3.92	7.25E-04
RPS6KA1	Up	2.82	1.01E-05
RPS6KL1	Down	-2.49	4.81E-09
RPTOR	Down	-1.01	4.30E-04
RRAD	Down	-3.33	1.21E-19
RRAS	Down	-2.59	7.89E-17
RRBP1	Up	1.9	4.52E-04
RRM2	Up	4.66	6.33E-03
RSPO1	Down	-3.65	4.48E-08
RSPO2	Up	4.78	8.81E-03
RSPO3	Down	-2.5	6.69E-05
RSRC1	Down	-1.1	4.82E-04
RSU1	Down	-1.19	2.55E-05
RTKN	Up	1.08	3.24E-03
RTKN2	Up	2.72	3.21E-04
RTL3	Down	-2.84	4.77E-04
RTN1	Down	-2.05	4.69E-06
RTN4RL1	Up	2.38	1.27E-04
RTN4RL2	Up	1.51	2.35E-02
RUBCNL	Up	1.76	2.25E-05
RUNX1	Up	2.55	3.60E-17
RUNX2	Up	5.25	7.70E-03

RUNX3	Up	1.88	2.87E-03
RUSC2	Down	-1.25	8.09E-06
RWDD2B	Down	-1	5.70E-03
RXFP1	Down	-3.88	3.98E-05
RYR2	Down	-4.01	3.82E-22
RYR3	Down	-2.85	6.29E-13
S100A11	Up	1.1	3.74E-04
S100A4	Down	-1.62	1.38E-05
S100A6	Down	-1.21	1.45E-05
S100A8	Up	2.49	1.50E-02
S100A9	Up	3.47	4.75E-03
S1PR1	Up	1.19	3.75E-03
S1PR2	Up	1.24	1.03E-03
S1PR4	Up	2.83	1.31E-03
S1PR5	Up	2.74	4.02E-02
SACS	Down	-2.01	8.46E-13
SALL1	Up	2.87	3.31E-02
SALL2	Down	-1.02	3.62E-03
SALL4	Up	4.58	4.59E-02
SAMD12	Down	-1.11	3.87E-03
SAMD14	Down	-1.26	2.63E-03
SAMD3	Up	1.84	4.67E-02
SAMD4A	Down	-1.89	2.33E-11
SAMD5	Up	2.45	1.77E-05
SAMD9L	Up	2.14	7.87E-05
SAMSN1	Up	3.32	6.86E-05
SAP25	Up	2.07	7.00E-04
SAPCD2	Up	3.72	2.93E-03
SARDH	Up	2.46	1.90E-03
SASH3	Up	2.9	4.45E-10
SAT1	Up	2.66	1.15E-06
SBDS	Down	-2.08	4.83E-13
SBK1	Up	3.56	8.38E-03
SBSPON	Down	-4.2	1.34E-40
SCAMP5	Up	1.88	2.99E-05
SCARF1	Up	1.12	2.37E-02
SCGB1D1	Up	12.53	1.81E-02
SCGB2A1	Up	13.7	1.21E-02
SCIMP	Up	3.95	2.19E-04
SCIN	Up	3.98	1.11E-03
SCML4	Up	3.79	7.22E-04
SCN2B	Up	4.06	3.62E-08
SCN3A	Down	-2.16	2.89E-07
SCN5A	Down	-2.55	5.29E-03
SCN9A	Up	1.88	1.19E-03
SCNN1D	Up	1.43	3.96E-03

SCOC	Down	-1.01	9.94E-04
SCRG1	Down	-4.38	4.66E-18
SCUBE1	Up	2.45	9.91E-03
SCUBE3	Down	-4.11	2.16E-39
SCX	Down	-1.61	1.34E-03
SDC1	Up	4.65	6.80E-05
SDC4	Down	-1.48	1.44E-04
SDK1	Down	-3.36	2.32E-26
SDS	Up	5.71	1.85E-02
SDSL	Up	1.58	2.68E-02
SEC14L1	Up	1.32	3.51E-06
SEC14L2	Up	2.32	1.56E-03
SECTM1	Up	1.37	2.95E-03
SEL1L2	Down	-7.97	5.64E-09
SEL1L3	Up	3.7	3.65E-04
SELE	Up	3.38	2.09E-02
SELENOM	Down	-1.9	8.63E-11
SELENOP	Up	2.14	1.85E-04
SELENOW	Down	-1.49	1.79E-07
SELL	Up	4.46	1.21E-03
SELPLG	Up	2.83	9.87E-09
SEMA4D	Up	2.55	1.07E-08
SEMA4G	Up	1.9	4.69E-02
SEMA5A	Up	1.26	3.83E-02
SEMA7A	Up	4.48	3.04E-02
1-Sep	Up	1.62	2.16E-02
10-Sep	Down	-1.24	1.44E-05
3-Sep	Up	3.93	3.04E-02
SERAC1	Down	-1.17	8.58E-04
SERINC5	Up	2.31	2.50E-14
SERPINA1	Up	1.22	2.76E-03
SERPINB9	Up	1.49	3.57E-02
SERPINE2	Up	2.17	2.15E-05
SESN3	Up	1.94	4.80E-06
SETMAR	Down	-1.12	6.34E-04
SEZ6L2	Up	6.14	3.39E-02
SFMBT2	Up	2.29	4.23E-12
SFXN2	Up	1.96	2.99E-05
SGCA	Down	-4.15	1.24E-32
SGCB	Down	-1.77	9.71E-10
SGIP1	Down	-2.1	1.47E-11
SGK1	Up	3.41	1.70E-27
SGO1	Up	Inf	2.02E-05
SGO2	Up	1.56	2.74E-03
SGSM1	Down	-1.82	3.52E-06
SGSM3	Up	1.07	1.57E-02

SGTB	Down	-1.69	7.34E-08
SH2B2	Up	1.88	2.12E-03
SH2D1A	Up	4.57	1.53E-02
SH2D2A	Up	2.37	1.02E-02
SH2D3A	Up	4.89	4.25E-02
SH2D3C	Up	1.23	6.27E-03
SH3BGRL	Down	-1.66	3.44E-09
SH3BGRL3	Up	1.16	2.90E-03
SH3BP1	Up	2.61	4.48E-09
SH3BP2	Up	1.57	9.22E-06
SH3BP5	Up	1.39	2.30E-03
SH3D19	Down	-1.5	9.61E-08
SH3D21	Up	1.41	8.42E-03
SH3GL3	Down	-2.67	4.55E-02
SH3KBP1	Up	1.55	7.58E-07
SH3PXD2B	Up	1.49	5.50E-03
SH3TC1	Up	2.69	2.44E-07
SHANK1	Up	5.3	1.61E-02
SHANK3	Up	1.29	2.05E-02
SHC2	Up	1.03	1.44E-02
SHC4	Down	-1.27	2.37E-02
SHCBP1	Up	2.69	1.17E-02
SHISA2	Up	4.57	3.74E-05
SHISA8	Up	4.36	2.23E-02
SHISAL2A	Up	3.67	6.68E-03
SHOX2	Down	-3.06	2.05E-22
SHROOM1	Up	1.12	1.28E-02
SHROOM2	Up	2.67	5.73E-04
SHROOM3	Down	-1.7	2.20E-03
SHTN1	Up	1.73	3.01E-05
SIDT1	Up	4.14	1.83E-02
SIGIRR	Up	1.21	2.04E-03
SIGLEC1	Up	3.03	5.87E-04
SIGLEC10	Up	4.18	1.33E-06
SIGLEC12	Up	5.22	2.05E-03
SIGLEC15	Up	5.02	1.00E-02
SIGLEC7	Up	4.2	2.71E-03
SIGLEC8	Up	3.04	1.88E-02
SIGLEC9	Up	2.64	9.53E-04
SIK1	Up	2.97	1.15E-02
SIPA1L2	Up	1.25	3.75E-05
SIPA1L3	Up	1.36	6.73E-03
SIRPA	Up	1.34	1.01E-05
SIRPB1	Up	3.99	1.48E-05
SIRPB2	Up	1.8	2.00E-02
SIRPG	Up	4.02	2.38E-02

SIT1	Up	4.3	9.81E-03
SIX1	Up	3.61	3.79E-03
SIX2	Up	5.2	1.38E-06
SIX4	Up	2.77	1.56E-02
SKA1	Up	3.06	1.33E-02
SKA3	Up	3.41	2.78E-02
SKAP1	Up	4.27	1.96E-04
SLA	Up	3.14	6.79E-04
SLA2	Up	2.78	2.60E-03
SLAIN2	Down	-1.45	3.18E-07
SLAMF1	Up	4	8.17E-04
SLAMF6	Up	5.35	9.51E-05
SLAMF7	Up	6.1	2.31E-02
SLAMF8	Up	3.73	7.72E-05
SLC12A3	Up	Inf	4.09E-02
SLC12A8	Up	4.73	6.46E-03
SLC13A2	Up	Inf	2.21E-02
SLC13A3	Up	1.45	2.53E-02
SLC15A2	Up	3.02	1.80E-02
SLC16A1	Down	-2.08	9.37E-12
SLC16A10	Up	3.83	3.21E-03
SLC16A11	Up	2.92	8.58E-03
SLC16A12	Up	3.06	1.52E-02
SLC16A13	Up	2.53	6.01E-04
SLC16A4	Up	1.66	1.60E-02
SLC16A5	Up	1.53	1.81E-04
SLC16A6	Up	3.63	3.26E-05
SLC16A9	Down	-1.19	2.02E-03
SLC17A9	Up	2.28	4.25E-02
SLC18B1	Up	1.14	3.39E-03
SLC19A1	Up	1.5	5.26E-03
SLC1A3	Up	3.83	1.31E-05
SLC20A1	Up	1.13	1.05E-03
SLC20A2	Down	-1.85	1.21E-10
SLC22A18	Up	1.55	3.49E-03
SLC22A2	Down	-3.64	1.96E-02
SLC22A23	Up	1.91	2.20E-08
SLC22A3	Down	-1.51	2.52E-06
SLC23A1	Up	4.98	2.42E-02
SLC24A3	Down	-2.52	3.02E-14
SLC24A4	Up	1.86	1.70E-02
SLC25A10	Up	2.36	1.53E-02
SLC25A12	Down	-1.22	5.29E-05
SLC25A22	Up	1.87	9.35E-05
SLC25A23	Down	-2.23	1.49E-13
SLC25A35	Up	1.21	1.26E-02

SLC25A4	Down	-2.41	1.14E-14
SLC25A48	Up	5.69	1.62E-02
SLC26A10	Down	-1.43	3.29E-04
SLC26A7	Up	1.87	6.43E-03
SLC29A4	Up	2.81	1.33E-02
SLC2A10	Up	1.65	2.56E-04
SLC2A12	Down	-1.66	6.96E-06
SLC2A4	Down	-2.98	3.52E-14
SLC2A9	Up	1.63	1.18E-02
SLC34A2	Up	10.98	3.20E-02
SLC35F1	Down	-1.87	1.99E-03
SLC35F2	Up	1.6	4.37E-02
SLC35F4	Down	-4.36	3.12E-12
SLC35G1	Up	2.31	2.55E-04
SLC36A1	Up	1.1	9.84E-03
SLC37A2	Up	3.86	4.71E-03
SLC38A1	Down	-1.5	1.26E-05
SLC38A4	Down	-3.22	4.09E-06
SLC38A5	Up	3.33	1.73E-03
SLC38A6	Up	1.39	1.47E-04
SLC39A4	Up	1.63	4.54E-02
SLC43A2	Up	1.48	2.49E-05
SLC44A5	Up	3.61	8.28E-03
SLC45A1	Down	-1.72	1.10E-03
SLC47A1	Down	-1.99	2.38E-05
SLC49A3	Up	1.2	1.15E-03
SLC4A1	Up	3.72	6.46E-03
SLC4A10	Up	5.6	2.29E-03
SLC4A8	Up	3.11	5.16E-07
SLC52A3	Up	1.47	3.49E-02
SLC5A3	Down	-1.01	3.01E-04
SLC5A4	Up	1.54	9.42E-03
SLC5A7	Down	-3.64	1.29E-03
SLC5A8	Up	Inf	1.67E-02
SLC6A11	Up	4.3	2.84E-02
SLC6A14	Up	Inf	2.78E-02
SLC6A16	Down	-1.38	3.29E-04
SLC6A17	Down	-1.18	4.87E-02
SLC6A20	Up	Inf	1.30E-02
SLC6A6	Up	2.12	1.05E-02
SLC6A8	Down	-1.12	1.54E-04
SLC7A11	Up	3.16	4.72E-04
SLC7A4	Down	-3.81	1.97E-05
SLC7A7	Up	1.62	2.48E-04
SLC7A8	Up	1.18	2.14E-04
SLC8A1	Down	-2.38	2.59E-16

SLC8A2	Down	-3.7	5.82E-09
SLC9A2	Up	5.12	1.83E-02
SLC9A7	Up	3.04	1.55E-02
SLC9C1	Up	2.12	1.67E-02
SLCO2B1	Up	2.33	3.11E-04
SLCO5A1	Down	-2.26	4.08E-03
SLFN11	Up	1.06	4.66E-04
SLFN12L	Up	2.03	2.08E-03
SLFNL1	Up	1.4	4.46E-02
SLIT2	Up	1.81	4.20E-02
SLITRK4	Down	-2.96	2.17E-19
SLMAP	Down	-3.18	1.23E-27
SLN	Down	-5.28	2.51E-12
SLPI	Up	8.59	3.84E-02
SMAGP	Up	1.77	1.86E-03
SMARCD3	Down	-1.16	1.78E-04
SMCO3	Down	-2.45	1.30E-02
SMCO4	Up	2.07	3.14E-02
SMIM10	Down	-2.43	9.63E-10
SMIM12	Down	-1.06	8.36E-04
SMIM25	Up	5.65	3.67E-04
SMO	Up	1.87	1.35E-07
SMOC2	Down	-1.47	1.59E-07
SMOX	Up	2.23	2.31E-02
SMPD2	Up	1.42	6.35E-03
SMPDL3A	Up	1.32	5.54E-03
SMR3A	Up	11.98	2.35E-02
SMR3B	Up	13.01	1.52E-02
SMTN	Down	-3.25	1.19E-28
SMTNL2	Up	2.36	2.15E-02
SNAI2	Up	3.67	8.92E-06
SNAI3	Up	3.06	3.08E-02
SNAP91	Up	3.4	4.76E-05
SNAPC2	Down	-1.05	6.66E-03
SNCAIP	Up	2.11	7.04E-06
SNCG	Down	-2.99	3.28E-20
SNED1	Up	1.55	3.39E-03
SNRPN	Down	-1.09	3.54E-02
SNTA1	Down	-1.93	4.94E-10
SNX10	Up	2.51	2.17E-04
SNX18	Down	-1.1	1.03E-04
SNX20	Up	3.27	2.04E-07
SNX21	Down	-1	1.30E-03
SNX22	Up	2.15	1.54E-02
SNX8	Up	1.14	8.58E-04
SOCS1	Up	1.03	3.42E-02

SOCS3	Up	1.5	9.44E-04
SOCS4	Down	-1.05	3.48E-04
SOD3	Down	-2.03	4.72E-12
SORBS1	Down	-4.36	3.60E-43
SORBS2	Down	-3.75	1.48E-22
SORCS1	Down	-1.35	2.46E-02
SORT1	Down	-1.94	1.95E-12
SOWAHC	Down	-1.26	8.12E-05
SOX17	Up	1.36	2.77E-02
SOX4	Up	1.96	9.87E-04
SOX5	Down	-1.18	1.06E-04
SOX6	Down	-1.19	1.46E-04
SP140	Up	3.37	3.77E-03
SP6	Up	3.74	1.22E-03
SPAG17	Up	4.81	1.19E-02
SPAG5	Up	2.15	9.83E-03
SPARCL1	Down	-1.88	1.04E-07
SPATA13	Up	1.67	7.28E-08
SPATA9	Up	2.75	4.68E-04
SPATC1	Up	3.15	4.82E-02
SPATS2	Up	1.32	1.09E-04
SPC25	Up	5.04	8.41E-03
SPECC1	Down	-1.02	4.99E-03
SPEG	Down	-3.75	3.02E-21
SPHK1	Up	1.37	3.39E-02
SPI1	Up	2.25	9.59E-04
SPIB	Up	4.95	2.52E-03
SPIC	Up	Inf	4.43E-02
SPICE1	Up	1.1	5.86E-04
SPIRE2	Up	1.72	5.99E-03
SPN	Up	2.71	9.69E-07
SPNS3	Up	3.03	2.46E-03
SPOCK2	Up	1.94	6.05E-04
SPON1	Up	2.84	2.52E-04
SPOP	Down	-1.34	2.75E-06
SPOPL	Down	-1.03	3.33E-04
SPP1	Up	7.35	4.18E-02
SPRY1	Up	1.43	6.94E-03
SPTB	Down	-1.44	1.83E-04
SPTBN4	Down	-1.09	1.96E-02
SPTBN5	Up	2.9	1.56E-04
SPTLC3	Up	1.93	6.85E-04
SRC	Down	-1.16	8.81E-05
SRF	Down	-1.98	6.49E-12
SRGAP1	Up	1.39	3.80E-06
SRGAP2	Up	1.39	4.52E-03

SRGAP3	Up	3.44	8.10E-09
SRGN	Up	1.77	8.22E-04
SRL	Down	-3	2.18E-08
SRPK3	Down	-3.01	1.18E-05
SRPRB	Up	1.24	1.36E-02
SRPX	Up	2.21	3.23E-04
SRPX2	Up	1.41	3.20E-02
SSBP2	Down	-1.27	1.16E-05
SSH2	Up	1.65	1.99E-08
SSPO	Up	1.97	3.71E-04
SSR2	Up	1.04	1.36E-03
ST14	Up	5.46	4.92E-03
ST18	Up	3.92	8.26E-03
ST3GAL1	Up	1.35	2.02E-02
ST3GAL4	Up	1.02	2.72E-02
ST3GAL5	Up	2.48	3.20E-10
ST5	Down	-1.52	8.39E-08
ST6GAL2	Down	-2.65	1.08E-15
ST6GALNAC5	Down	-4.77	4.23E-16
ST8SIA2	Up	6.35	3.22E-02
ST8SIA4	Up	2.47	5.06E-11
STAB2	Up	7.08	1.83E-03
STAC	Down	-1.81	9.10E-04
STAC3	Up	2.6	2.16E-03
STAP1	Up	3.04	3.73E-02
STARD4	Down	-1.59	1.01E-06
STARD5	Up	1.45	4.72E-03
STARD8	Up	1.55	1.69E-03
STAT4	Up	2.03	6.91E-03
STAT5B	Down	-1.26	7.33E-06
STBD1	Down	-2.27	2.76E-03
STEAP2	Down	-1.96	1.79E-10
STIL	Up	2.22	8.21E-05
STK10	Up	1.53	9.33E-05
STK17B	Up	3.49	1.60E-23
STK26	Down	-1.53	1.80E-05
STK38L	Down	-2.86	9.49E-23
STK40	Down	-1.52	1.69E-07
STMN1	Up	2.03	7.49E-05
STON1	Down	-1.65	6.43E-07
STON2	Up	2.28	4.67E-14
STPG1	Up	1.47	2.16E-02
STRIP2	Up	4.27	1.37E-03
STRN3	Down	-1.08	2.11E-04
STS	Down	-1.17	1.51E-04
STUM	Down	-3.19	1.01E-23

STXBP2	Up	3.59	2.96E-03
STXBP5L	Down	-3.01	3.41E-04
STYXL1	Up	1.16	8.50E-03
SULT1A1	Up	1.9	7.87E-06
SULT1B1	Up	4.38	8.02E-05
SULT1C4	Up	1.84	5.32E-03
SUN2	Down	-1.47	9.96E-08
SUPT20HL1	Down	-3.8	3.52E-02
SUPT20HL2	Down	#NAME?	6.05E-03
SUSD2	Down	-2.38	7.49E-14
SUSD3	Up	1.46	4.48E-02
SUSD5	Down	-1.82	1.04E-05
SV2C	Up	3.08	1.25E-02
SVEP1	Up	2.12	5.58E-03
SVIL	Down	-3.1	7.83E-27
SYBU	Up	1.25	3.98E-02
SYK	Up	2.32	5.80E-11
SYNC	Down	-2.12	3.42E-11
SYNDIG1	Down	-2.24	3.85E-09
SYNE1	Down	-1.29	3.22E-06
SYNJ2BP	Down	-1.1	1.19E-04
SYNM	Down	-4.52	1.06E-48
SYNPO	Down	-2.04	5.03E-13
SYNPO2	Down	-4.65	1.64E-50
SYNPO2L	Down	-3.27	5.52E-04
SYPL2	Down	-2.35	2.17E-07
SYT11	Down	-1.32	1.34E-05
SYTL1	Up	5.69	3.05E-02
SYTL2	Down	-2.55	1.36E-18
SYTL3	Up	2.26	2.75E-03
TACC1	Down	-1.17	2.85E-05
TACC2	Down	-1.68	1.48E-03
TACC3	Up	1.98	4.20E-04
TACR2	Down	-4	3.23E-05
TAF5L	Down	-1.59	3.60E-07
TAF9B	Down	-1.46	7.00E-06
TAGAP	Up	2.92	3.79E-05
TAGLN	Down	-4.29	2.19E-45
TAL1	Up	1.3	2.69E-02
TANC2	Up	2.15	9.48E-08
TAPT1	Down	-1.06	5.98E-04
TARBP1	Up	1.03	8.23E-04
TARP	Up	3.89	4.60E-04
TAS1R3	Up	3.04	2.45E-02
TAS2R13	Up	1.74	1.09E-02
TBC1D1	Down	-1.43	3.41E-07

TBC1D10C	Up	3.6	2.43E-05
TBC1D8B	Up	1.64	1.40E-06
TBC1D9	Up	1.59	1.77E-05
TBX1	Up	2.55	1.13E-02
TBX15	Down	-1.07	3.44E-03
TBX18	Down	-1.39	6.11E-04
TBX21	Up	2.62	2.38E-02
TBXA2R	Down	-3.65	2.72E-27
TBXAS1	Up	3.26	4.99E-04
TCEAL1	Down	-2.53	8.64E-14
TCEAL3	Down	-1.95	9.23E-09
TCEAL4	Down	-2.16	2.41E-07
TCEAL7	Down	-1.21	2.93E-02
TCF21	Down	-2.22	2.85E-02
TCF7	Up	4.39	7.60E-06
TCIRG1	Up	1.67	2.74E-02
TCL1A	Up	4.89	8.17E-03
TCN1	Up	13.61	1.58E-02
TDRD1	Up	4.16	3.29E-04
TDRD10	Up	1.1	1.97E-02
TDRP	Up	1.64	2.72E-05
TEAD1	Down	-1.15	3.40E-05
TEAD3	Down	-2.42	8.75E-16
TEC	Up	1.48	1.50E-03
TEF	Down	-2.15	6.07E-11
TENM1	Down	-2.34	6.10E-12
TENM2	Up	5.51	1.04E-02
TENM3	Up	3.07	1.26E-02
TENM4	Up	3.82	6.20E-03
TES	Down	-2.97	1.46E-23
TESMIN	Up	3.38	4.28E-02
TESPA1	Up	2.36	3.71E-02
TET3	Up	1.98	5.72E-10
TEX9	Up	1.14	3.97E-02
TF	Up	2.69	2.28E-07
TFEC	Up	2.71	1.44E-04
TFF3	Up	5.95	7.35E-03
TFR2	Up	3.62	4.24E-02
TG	Up	2.32	5.93E-04
TGFA	Up	4.2	6.10E-04
TGFB1	Up	1.71	2.23E-02
TGFB1I1	Down	-2.39	2.40E-16
TGFB2	Down	-1.63	1.24E-03
TGFBR1	Down	-1.52	1.18E-05
TGFBR3L	Down	-2.25	2.79E-02
THBS1	Down	-1.29	4.43E-05

THEM6	Up	1.05	5.60E-03
THEMIS	Up	3.99	1.33E-03
THEMIS2	Up	3.44	4.54E-11
THOC7	Down	-1.03	2.40E-03
THRA	Down	-1.15	8.50E-05
THRB	Down	-1.68	1.28E-08
THSD1	Up	1.4	7.09E-03
THSD4	Up	2.19	3.14E-02
THSD7A	Up	1.71	1.69E-03
THY1	Up	2.55	9.76E-04
TIAM1	Up	2.85	1.25E-06
TICRR	Up	8.07	5.92E-04
TIE1	Up	1.25	3.36E-02
TIGIT	Up	3.11	9.18E-03
TIMELESS	Up	1.58	9.12E-05
TIMP1	Up	1.32	2.98E-02
TIMP3	Down	-1.14	1.62E-02
TINAGL1	Down	-1.55	5.78E-08
TJP1	Down	-1.12	4.39E-05
TK1	Up	3.7	6.25E-03
TLCD2	Up	1.09	2.82E-02
TLN1	Down	-2.11	2.64E-14
TLR1	Up	1.9	4.16E-04
TLR10	Up	4.5	1.36E-03
TLR2	Up	2.5	8.01E-04
TLR4	Up	1.55	3.52E-02
TLR5	Up	2.45	1.40E-02
TLR6	Up	1.85	9.01E-05
TLR7	Up	2.12	6.58E-05
TLR8	Up	2	9.71E-03
TM4SF18	Up	1.32	1.16E-02
TM6SF2	Up	4.63	1.42E-04
TMC6	Up	2.13	7.46E-09
TMC8	Up	3.48	1.58E-06
TMED9	Up	1.02	1.64E-02
TMEM106A	Up	1.43	3.57E-05
TMEM119	Up	4.4	2.82E-02
TMEM131L	Down	-1.01	5.88E-04
TMEM132A	Up	2.53	5.41E-06
TMEM132C	Up	3.15	1.36E-02
TMEM132E	Up	2.38	5.70E-03
TMEM144	Up	1.3	1.98E-03
TMEM150B	Up	3.2	1.91E-03
TMEM150C	Up	1.61	3.39E-02
TMEM154	Up	2.47	7.02E-05
TMEM156	Up	5.2	1.54E-03

TMEM158	Down	-3.38	3.71E-12
TMEM159	Down	-1.54	3.67E-07
TMEM170B	Down	-1.06	1.05E-03
TMEM176A	Down	-1.12	4.06E-03
TMEM176B	Down	-1.66	8.53E-08
TMEM181	Down	-1.02	1.76E-04
TMEM200B	Down	-1.68	2.18E-06
TMEM213	Up	Inf	2.68E-02
TMEM220	Down	-1.06	3.44E-03
TMEM229B	Up	1.44	5.28E-03
TMEM243	Up	1.02	9.44E-03
TMEM25	Down	-1.36	1.11E-04
TMEM26	Up	5.13	1.75E-05
TMEM35A	Down	-4.86	2.34E-27
TMEM37	Up	2.32	1.46E-03
TMEM43	Down	-1.19	2.42E-05
TMEM44	Up	2.02	1.11E-03
TMEM45A	Up	1.12	2.23E-02
TMEM47	Down	-3.15	3.47E-27
TMEM51	Up	1.22	1.54E-02
TMEM56	Down	-1.22	4.83E-02
TMEM61	Down	-2.48	2.35E-04
TMEM63C	Up	4.66	1.60E-02
TMEM74	Down	-3.81	5.51E-12
TMEM74B	Up	1.44	2.50E-02
TMEM86A	Up	1.52	1.98E-03
TMEM91	Up	1.11	1.10E-02
TMEM92	Up	3.88	3.12E-03
TMEM98	Up	1.25	9.17E-05
TMOD1	Down	-1.84	4.63E-07
TMPRSS2	Up	Inf	2.79E-02
TMSB10	Up	1.33	5.74E-04
TMTC2	Up	2.44	6.90E-03
TNC	Down	-2.05	1.25E-07
TNFAIP2	Up	1.59	6.16E-04
TNFAIP3	Up	2.52	2.17E-08
TNFAIP6	Up	2	9.42E-03
TNFAIP8L1	Up	1.73	7.30E-03
TNFAIP8L2	Up	1.97	2.00E-02
TNFAIP8L3	Down	-2.06	4.85E-09
TNFRSF10B	Up	1.21	9.03E-05
TNFRSF10C	Up	1.83	1.59E-02
TNFRSF11A	Up	3.86	1.03E-03
TNFRSF11B	Down	-2.43	1.89E-04
TNFRSF12A	Down	-2.11	2.70E-05
TNFRSF13B	Up	Inf	7.14E-04

TNFRSF13C	Up	7.15	6.25E-04
TNFRSF17	Up	Inf	3.46E-02
TNFRSF18	Up	4.52	2.62E-04
TNFRSF19	Up	2.94	3.47E-02
TNFRSF21	Up	3.31	6.24E-17
TNFRSF25	Up	1.12	2.74E-03
TNFRSF9	Up	4.68	8.67E-05
TNFSF11	Up	6.43	4.00E-03
TNFSF12	Down	-1.07	3.14E-03
TNFSF13B	Up	2.43	1.23E-05
TNFSF14	Up	2.89	3.05E-03
TNFSF15	Up	2.56	3.09E-02
TNFSF18	Up	Inf	1.30E-02
TNFSF8	Up	2.49	2.47E-04
TNFSF9	Up	2.89	1.43E-02
TNN	Up	5.55	2.69E-07
TNS1	Down	-3.33	3.98E-30
TNS3	Up	1.63	4.70E-02
TOM1L2	Down	-1.2	2.18E-05
TONSL	Up	1.61	2.06E-03
TOP2A	Up	4.56	3.83E-04
TOR4A	Up	1.33	1.58E-02
TOX3	Up	Inf	2.78E-02
TP53I3	Up	1.46	4.72E-04
TP53INP2	Down	-1.85	1.99E-10
TPBG	Up	2.21	2.03E-08
TPM1	Down	-2.51	2.69E-19
TPM2	Down	-3.85	4.19E-38
TPM3	Up	1.11	8.20E-05
TPO	Down	-1.1	4.62E-02
TPPP	Down	-2.12	5.21E-10
TPSB2	Up	2.3	2.29E-02
TPST2	Up	1.11	6.83E-04
TPX2	Up	3.09	6.49E-03
TRABD	Up	1.07	6.00E-03
TRABD2A	Up	3.36	5.99E-04
TRABD2B	Down	-1.82	4.41E-08
TRAF3IP1	Down	-1.09	7.45E-04
TRAF3IP3	Up	3.24	2.59E-03
TRAF4	Up	2.83	1.57E-02
TRAF5	Down	-1.16	5.38E-05
TRAT1	Up	5.54	2.03E-03
TRDN	Down	-5.95	5.99E-35
TREM1	Up	3.42	3.23E-02
TREM2	Up	2.9	1.24E-02
TREML2	Up	4.48	1.93E-02

TRIL	Down	-1.07	1.27E-03
TRIM14	Up	2.33	1.46E-09
TRIM17	Up	6.55	1.72E-05
TRIM47	Down	-1.14	7.53E-04
TRIM58	Up	2.87	6.63E-04
TRIM59	Up	2.53	4.29E-07
TRIM9	Up	2.99	1.43E-04
TRMT61A	Down	-1.45	2.02E-05
TRMT9B	Up	1.7	5.64E-03
TRNP1	Down	-1.31	1.22E-03
TRO	Up	1.25	1.83E-02
TROAP	Up	4.31	1.30E-02
TRPC3	Up	2.15	4.33E-02
TRPC4	Down	-4	1.52E-30
TRPM2	Up	1.85	1.95E-03
TRPV1	Down	-1.22	3.09E-03
TRPV4	Up	4.71	2.54E-05
TSC22D4	Up	1.18	3.07E-02
TSGA10	Up	1.4	3.64E-02
TSHR	Up	Inf	1.07E-02
TSHZ3	Down	-1.53	7.18E-07
TSPAN10	Up	3.77	7.79E-03
TSPAN12	Down	-1.08	2.05E-03
TSPAN15	Down	-1.59	4.96E-07
TSPAN2	Down	-3.06	3.14E-21
TSPAN32	Up	2.67	2.42E-04
TSPAN5	Up	2.42	9.96E-04
TSPAN6	Up	1.21	5.42E-03
TSPOAP1	Down	-1.24	3.47E-05
TSSK1B	Up	4.25	3.98E-02
TTBK1	Down	-2.61	1.09E-02
TTC24	Up	6.49	1.47E-02
TTC7B	Down	-1.13	1.76E-04
TTC9	Up	2.66	5.75E-06
TTK	Up	2.63	1.47E-02
TTLL7	Down	-3.63	6.44E-33
TTN	Up	2.66	3.25E-02
TPPA	Down	-2.59	4.07E-02
TTYH2	Up	1.92	2.74E-07
TTYH3	Up	2.47	2.52E-07
TUBB1	Up	2.85	2.24E-02
TUBB3	Up	3	1.19E-02
TUBB6	Down	-1.59	3.84E-08
TUSC3	Up	1.8	1.60E-07
TWIST1	Up	3.87	1.71E-03
TWISTNB	Down	-1.09	8.29E-04

TWSG1	Down	-1.42	9.10E-07
TXK	Up	2.87	1.87E-03
TXLNB	Up	2.16	2.48E-02
TXNRD1	Down	-1.63	4.42E-05
TYK2	Up	1.06	2.50E-04
TYMP	Up	1.93	4.41E-08
TYRO3	Up	1.61	7.26E-03
TYROBP	Up	2.36	1.21E-04
TYRP1	Down	-6.11	4.66E-06
UBA2	Down	-1.08	1.51E-04
UBASH3A	Up	3.99	1.24E-03
UBASH3B	Up	2.28	3.98E-07
UBE2C	Up	3.01	2.65E-02
UBE2D4	Down	-1	1.85E-03
UBE2H	Down	-1.22	8.57E-06
UBE2L5	Down	-2.82	1.03E-02
UBE2QL1	Down	-1.16	1.06E-02
UBE2V2	Down	-1.04	8.88E-04
UBL4B	Up	6.46	2.62E-03
UBXN10	Up	1.65	4.77E-02
UBXN11	Up	1.71	3.40E-05
UBXN8	Up	1.45	8.86E-03
UCP2	Up	2.74	6.82E-15
UGP2	Down	-1.27	5.88E-06
UHRF1	Up	2.64	3.05E-02
UNC13C	Down	-3.38	1.54E-04
UNC13D	Up	1.51	2.63E-05
UNC45A	Down	-1.28	8.74E-06
UNC5D	Up	Inf	4.37E-03
UNC93B1	Up	1.41	9.14E-05
USP12	Down	-1.74	2.14E-09
USP2	Down	-1.48	9.90E-04
USP35	Down	-1.75	3.44E-08
VANGL2	Up	3.38	5.05E-09
VASH2	Up	5.37	7.50E-05
VASN	Down	-1.19	8.13E-04
VASP	Down	-1.23	1.91E-05
VAV1	Up	2.53	2.58E-06
VAV3	Up	3.4	7.55E-18
VCAN	Up	2.15	6.12E-03
VCL	Down	-2.71	1.18E-21
VEGFC	Up	1.4	6.91E-03
VGLL3	Down	-2.29	1.58E-15
VILL	Up	1.31	8.74E-04
VIP	Up	1.94	4.49E-02
VIPR2	Down	-2.34	1.50E-08

VIT	Up	2	4.01E-03
VLDLR	Down	-1.35	6.71E-05
VMO1	Up	2.33	4.22E-02
VMP1	Up	2.09	2.39E-05
VNN1	Up	3.25	6.30E-05
VNN2	Up	2.74	4.93E-04
VPREB3	Up	4.21	2.45E-02
VPS13A	Down	-1.98	1.41E-12
VWA1	Down	-1.21	2.01E-05
VWC2	Down	-3.04	2.74E-02
WAS	Up	3.31	1.62E-08
WDFY2	Up	1.13	1.28E-04
WDFY4	Up	3.11	2.87E-07
WDR1	Down	-1.81	5.14E-11
WDR17	Down	-1.16	2.52E-02
WDR62	Up	2.43	6.59E-03
WDR72	Up	5.75	9.01E-03
WDR86	Up	4.83	6.35E-03
WFDC1	Down	-2.28	2.68E-09
WFDC10B	Down	-5.97	5.09E-09
WFDC3	Down	-3.17	6.07E-05
WFS1	Down	-1.43	1.03E-06
WHRN	Up	2.79	1.74E-05
WIF1	Up	4.19	5.33E-03
WIPF3	Down	-3.87	1.56E-29
WISP2	Down	-4.16	8.34E-10
WNT10B	Up	4.06	3.19E-04
WNT11	Down	-3.1	1.88E-08
WNT16	Up	Inf	1.19E-03
WNT5A	Up	5.29	4.74E-06
WNT5B	Up	1.19	2.37E-02
WTIP	Down	-1.11	1.84E-02
XCR1	Up	4.44	7.82E-05
XDH	Up	Inf	4.59E-02
XKR5	Up	6.32	2.71E-02
XPNPEP2	Up	2.22	2.28E-02
YAP1	Down	-2.42	1.18E-17
YBX1	Down	-1.03	1.95E-04
YBX2	Down	-2.9	7.07E-04
YIF1B	Up	1.68	2.95E-04
YWHAH	Down	-2.41	6.56E-17
ZAP70	Up	3.49	6.94E-04
ZBP1	Up	4.03	1.47E-02
ZBTB46	Up	1.43	1.02E-04
ZBTB47	Down	-1.38	1.25E-06
ZC3H12D	Up	3.92	1.11E-09

ZCCHC18	Down	-1.92	9.40E-04
ZDHHC11B	Down	-1.72	2.39E-03
ZDHHC9	Up	1.44	1.44E-05
ZEB2	Down	-1.12	5.07E-05
ZFHX3	Down	-1.06	8.85E-05
ZFP57	Down	-3.49	3.15E-03
ZFP69B	Up	1.49	6.53E-03
ZFPM1	Up	1.05	1.32E-02
ZFPM2	Down	-1.16	8.96E-04
ZG16B	Up	11.42	2.66E-02
ZMAT4	Down	-2.4	2.08E-02
ZMYND15	Up	1.77	9.85E-03
ZNF101	Up	1.09	4.50E-03
ZNF107	Up	1.16	5.92E-04
ZNF154	Up	1.01	7.31E-03
ZNF214	Up	1.73	4.24E-03
ZNF215	Up	4.53	2.24E-02
ZNF217	Up	1.71	9.92E-06
ZNF219	Down	-1.55	5.10E-07
ZNF25	Down	-1.2	9.43E-05
ZNF280B	Up	3.01	3.65E-03
ZNF296	Up	2.61	5.00E-02
ZNF334	Up	2.65	3.34E-05
ZNF365	Down	-1.72	7.14E-04
ZNF366	Up	1.04	4.88E-02
ZNF385A	Up	1.48	1.27E-04
ZNF469	Up	2.18	5.09E-03
ZNF521	Up	1.51	1.63E-04
ZNF536	Down	-2.95	4.17E-12
ZNF608	Up	2.21	1.87E-02
ZNF618	Up	1.08	2.43E-04
ZNF671	Up	1.1	9.93E-03
ZNF69	Up	1.01	1.49E-02
ZNF697	Up	1.19	1.40E-03
ZNF710	Up	1.04	1.68E-03
ZNF727	Down	-1.55	2.31E-05
ZNF728	Down	-2.33	2.13E-04
ZNF730	Up	3.19	1.81E-02
ZNF738	Up	1.1	7.31E-03
ZNF774	Down	-2.36	1.98E-07
ZNF80	Up	Inf	3.19E-02
ZNF831	Up	3.72	3.32E-02
ZNF853	Down	-1.22	5.85E-04
ZSCAN2	Up	1.09	1.57E-02
ZSCAN31	Down	-1.36	4.34E-04
ZWINT	Up	1.95	1.39E-02

ZYX	Down	-1.92	9.90E-12
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