

Gene_symbol	Module_assignment
AAAS	Not significant
AACS	Not significant
AAK1	Not significant
AAMDC	Not significant
AAMP	Not significant
AARS	Not significant
AARS2	Not significant
AASDH	Not significant
AASDHPPT	Not significant
AATF	Not significant
ABCA5	Not significant
ABCA7	Not significant
ABCB7	Not significant
ABCC1	Not significant
ABCC10	Not significant
ABCC2	Not significant
ABCC5	Not significant
ABCD1	Not significant
ABCD3	Not significant
ABCD4	Not significant
ABCE1	Not significant
ABCF1	Lymph late up
ABCF2	Not significant
ABCG2	Not significant
ABHD12	Not significant
ABHD13	Not significant
ABHD16A	Global late down
ABHD17A	B down
ABHD18	Not significant
ABHD3	Not significant
ABI1	Not significant
ABI2	Not significant
ABL1	Not significant
ABLIM1	Not significant
ABR	Global down
ABRACL	Global late down
ABRAXAS1	Not significant
ABRAXAS2	Not significant
ACAA1	Not significant
ACAA2	Not significant
ACACA	Not significant
ACAD9	Not significant
ACADM	Not significant
ACADS	Not significant

ACADSB	Not significant
ACADVL	Not significant
ACAP1	Not significant
ACAP2	Mono late down
ACAP3	Not significant
ACAT1	Not significant
ACBD3	Not significant
ACBD6	Not significant
ACCS	Not significant
ACD	Not significant
ACLY	Not significant
ACO2	Not significant
ACOT13	Not significant
ACOT7	Not significant
ACOT9	Not significant
ACOX1	Not significant
ACP2	Not significant
ACP6	Not significant
ACSF2	Not significant
ACSF3	Not significant
ACSL1	Mono late up
ACSL3	Not significant
ACSL4	Mono early up
ACSL5	Not significant
ACTB	B down
ACTG1	B down
ACTL6A	Not significant
ACTN1	Not significant
ACTN4	Global down
ACTR10	Not significant
ACTR1A	Not significant
ACTR1B	Not significant
ACTR2	B down
ACTR3	NK mid up
ACTR5	Not significant
ACTR6	Not significant
ACTR8	Not significant
ADAL	Not significant
ADAM10	Not significant
ADAM15	Not significant
ADAM17	Not significant
ADAM23	Global late down
ADAM8	B down
ADAR	Global up
ADCK2	Not significant

ADCK5	Not significant
ADCY4	Not significant
ADCY7	Mono late down
ADCY9	Not significant
ADD1	B down
ADD3	Mono early up
ADGRE5	Not significant
ADGRF3	Not significant
ADGRL1	Not significant
ADI1	Not significant
ADIPOR1	Mono late down
ADIPOR2	Not significant
ADK	Not significant
ADNP	Not significant
ADNP2	Not significant
ADORA2A	Not significant
ADPGK	Not significant
ADPRHL2	Not significant
ADRM1	Not significant
ADSL	Not significant
ADSS	Not significant
AEBP2	Not significant
AFDN	Not significant
AFF1	Not significant
AFF4	Mono early down
AFTPH	Not significant
AGA	Not significant
AGAP2	Not significant
AGER	Not significant
AGFG1	Not significant
AGGF1	Not significant
AGK	Not significant
AGL	Not significant
AGO1	Not significant
AGO2	Not significant
AGO3	Not significant
AGO4	Not significant
AGPAT1	Not significant
AGPAT5	Not significant
AGPS	Not significant
AGTPBP1	Not significant
AGTRAP	Mono late up
AHCTF1	Mono early down
AHCYL1	Not significant
AHCYL2	Not significant

AHDC1	Not significant
AHI1	Not significant
AHRR	Not significant
AHSA1	Global down
AIFM1	Not significant
AIG1	Not significant
AIM2	Global up
AIMP1	Not significant
AIMP2	Not significant
AIP	Not significant
AK2	Mono late up
AKAP1	Not significant
AKAP10	Not significant
AKAP11	Not significant
AKAP12	Not significant
AKAP17A	Not significant
AKAP5	Not significant
AKAP7	Not significant
AKAP8L	Not significant
AKIP1	Not significant
AKIRIN1	Not significant
AKIRIN2	Not significant
AKNA	Mono late down
AKR1A1	Mono early down
AKR1B1	Not significant
AKT1	Not significant
AKT2	Not significant
AKT3	Not significant
AKTIP	Not significant
ALAS1	Mono late up
ALCAM	Not significant
ALDH16A1	Not significant
ALDH18A1	Not significant
ALDH2	B down
ALDH3A2	Not significant
ALDH5A1	Not significant
ALDH6A1	Not significant
ALDH9A1	Not significant
ALDOC	Not significant
ALG1	Not significant
ALG11	Not significant
ALG12	Not significant
ALG13	Not significant
ALG2	Not significant
ALG3	Not significant

ALG5	Not significant
ALG6	Not significant
ALG8	Not significant
ALKBH1	Not significant
ALKBH2	Not significant
ALKBH4	Not significant
ALKBH5	Not significant
ALKBH7	Not significant
ALKBH8	Not significant
ALMS1	Not significant
ALOX5AP	Not significant
ALPK1	Global up
ALYREF	Not significant
AMBRA1	Not significant
AMD1	Not significant
AMFR	Mono late down
AMIGO1	Not significant
AMMECR1L	Not significant
AMPD2	Not significant
AMT	Not significant
AMY2B	Not significant
AMZ2	Not significant
ANAPC1	Not significant
ANAPC10	Not significant
ANAPC11	Not significant
ANAPC13	Not significant
ANAPC15	Not significant
ANAPC16	Not significant
ANAPC2	Not significant
ANAPC4	Not significant
ANAPC5	Not significant
ANGEL1	Not significant
ANGEL2	Not significant
ANK3	Not significant
ANKFY1	Not significant
ANKH	Not significant
ANKIB1	Not significant
ANKRA2	Not significant
ANKRD10	Not significant
ANKRD13A	Not significant
ANKRD13C	Not significant
ANKRD13D	Mono early down
ANKRD23	Not significant
ANKRD27	Not significant
ANKRD28	Not significant

ANKRD35	Not significant
ANKRD37	Not significant
ANKRD44	Global down
ANKRD46	Not significant
ANKRD49	Not significant
ANKRD6	Not significant
ANKS3	Not significant
ANKS6	Not significant
ANKZF1	Not significant
ANO6	Global late down
ANP32A	Not significant
ANP32B	Not significant
ANP32E	Mono late up
ANTXR2	Not significant
ANXA1	Global late down
ANXA11	Mono late down
ANXA2	B down
ANXA5	Mono late down
ANXA6	Global down
ANXA7	Not significant
AP1B1	Not significant
AP1G1	Not significant
AP1G2	Not significant
AP1M1	Not significant
AP1S1	Not significant
AP1S2	Mono late down
AP2A2	Not significant
AP2B1	Not significant
AP2M1	Not significant
AP2S1	Not significant
AP3B1	Not significant
AP3D1	Not significant
AP3M1	Not significant
AP3M2	Not significant
AP3S1	Not significant
AP4B1	Not significant
AP4E1	Not significant
AP4S1	Not significant
AP5B1	Not significant
AP5M1	Not significant
AP5Z1	Not significant
APAF1	Not significant
APBA2	Not significant
APBA3	Not significant
APBB1	Not significant

APBB1IP	Global down
APBB2	Not significant
APC	Global down
APEH	Not significant
APEX1	Mono early down
API5	Not significant
APIP	Not significant
APLP2	Mono early up
APOBEC3C	Not significant
APOBEC3F	Not significant
APOBEC3G	Global up
APOBEC3H	Global up
APOBR	Mono late down
APOL2	Global up
APOL6	Global up
APOO	Not significant
APOOL	Not significant
APP	Not significant
APPBP2	Not significant
APPL2	Not significant
APRT	Not significant
APTX	Not significant
AQR	Not significant
ARAF	Not significant
ARAP1	Not significant
ARAP2	Lymph late up
ARCN1	Not significant
AREL1	Not significant
ARF4	Not significant
ARF5	Not significant
ARF6	B down
ARFGAP1	Not significant
ARFGAP2	Not significant
ARFGAP3	Not significant
ARFGEF1	Not significant
ARFGEF2	Not significant
ARFIP1	Not significant
ARFIP2	Not significant
ARFRP1	Not significant
ARHGAP10	Not significant
ARHGAP12	Not significant
ARHGAP15	Mono late down
ARHGAP18	Not significant
ARHGAP19	Not significant
ARHGAP25	Mono late down

ARHGAP26	Not significant
ARHGAP27	B down
ARHGAP35	Not significant
ARHGAP4	Mono early down
ARHGAP45	Global down
ARHGAP5	Not significant
ARHGAP9	Not significant
ARHGDIA	Global down
ARHGEF1	Global down
ARHGEF11	Not significant
ARHGEF12	Not significant
ARHGEF16	Not significant
ARHGEF2	Not significant
ARHGEF3	Global up
ARHGEF6	Mono early down
ARHGEF7	Not significant
ARHGEF9	Not significant
ARID1A	Mono early down
ARID1B	Not significant
ARID2	Not significant
ARID4A	Mono early down
ARID5A	Not significant
ARID5B	Lymph late up
ARIH1	Not significant
ARIH2	Mono late down
ARL1	Not significant
ARL13B	Not significant
ARL14EP	Not significant
ARL15	Not significant
ARL2	Not significant
ARL3	Not significant
ARL4A	Not significant
ARL4C	Not significant
ARL5A	Not significant
ARL6IP4	Not significant
ARL8A	Not significant
ARL8B	Mono late up
ARMC10	Not significant
ARMC2	Not significant
ARMC7	Not significant
ARMC8	Not significant
ARMCX1	Not significant
ARMCX2	Not significant
ARMCX3	Not significant
ARMCX4	Not significant

ARMCX5	Not significant
ARMT1	Not significant
ARNT	Not significant
ARNTL	Not significant
ARPC1A	NK mid up
ARPC2	Global late down
ARPC3	Mono late down
ARPC4	Not significant
ARPC5L	Not significant
ARPP19	Not significant
ARRB2	Global late down
ARRDC1	Not significant
ARRDC2	Not significant
ARRDC3	Not significant
ARSK	Not significant
ARV1	Not significant
ARVCF	Not significant
ASAH1	Not significant
ASAP1	Not significant
ASB3	Not significant
ASB6	Not significant
ASB8	Not significant
ASCC1	Not significant
ASCC2	Not significant
ASCC3	Mono early down
ASF1A	Not significant
ASF1B	Not significant
ASH2L	Not significant
ASNA1	Not significant
ASNS	Not significant
ASNSD1	Not significant
ASPH	Not significant
ASPSCR1	Not significant
ASRGL1	Not significant
ASTE1	Not significant
ASXL1	Not significant
ASXL2	Not significant
ATAD1	Not significant
ATAD2	Not significant
ATAD5	Not significant
ATE1	Not significant
ATF1	Not significant
ATF2	Not significant
ATF3	Not significant
ATF6	Not significant

ATF6B	Not significant
ATF7	Not significant
ATF7IP2	Not significant
ATG101	Not significant
ATG13	Not significant
ATG16L1	Not significant
ATG2A	Not significant
ATG2B	Not significant
ATG3	Not significant
ATG4B	Not significant
ATG4C	Not significant
ATG5	Not significant
ATIC	Not significant
ATL2	Not significant
ATL3	Not significant
ATM	Global down
ATMIN	Not significant
ATOX1	Mono late up
ATP10D	Not significant
ATP11C	Not significant
ATP13A1	Not significant
ATP13A2	Not significant
ATP13A3	Not significant
ATP1A1	B down
ATP1B3	Not significant
ATP2A2	Not significant
ATP2A3	B down
ATP2B1	Global down
ATP2B4	Global down
ATP2C1	Not significant
ATP5F1A	Global late down
ATP5F1B	Not significant
ATP5F1C	Not significant
ATP5IF1	Not significant
ATP5MC1	Not significant
ATP5MC2	Not significant
ATP5MC3	Not significant
ATP5MD	Not significant
ATP5ME	Mono late up
ATP5MPL	Not significant
ATP5PB	Not significant
ATP5PD	Mono late up
ATP5PF	Not significant
ATP5PO	Global late down
ATP5S	Not significant

ATP6AP2	Mono early up
ATP6V0A2	Not significant
ATP6V0B	Not significant
ATP6V0E1	Not significant
ATP6V1B2	Mono late up
ATP6V1C2	Not significant
ATP6V1D	Not significant
ATP6V1E1	NK mid up
ATP6V1G1	Not significant
ATP6V1H	Not significant
ATP7A	Not significant
ATP8A1	Not significant
ATP8B2	Not significant
ATP9B	Not significant
ATPAF2	Not significant
ATR	Not significant
ATRAID	Not significant
ATRIP	Not significant
ATRN	Not significant
ATXN1	Not significant
ATXN10	Not significant
ATXN1L	Not significant
ATXN2	Not significant
ATXN2L	Not significant
ATXN3	Not significant
ATXN7	Not significant
ATXN7L1	Not significant
ATXN7L2	Not significant
ATXN7L3	Not significant
ATXN7L3B	Not significant
AUP1	Not significant
AVEN	Not significant
AVL9	Not significant
AVPR2	Not significant
AXIN1	Not significant
AZI2	Not significant
AZIN1	Not significant
B2M	Global up
B3GALNT2	Not significant
B3GAT2	Not significant
B3GNT2	Not significant
B3GNTL1	Not significant
B9D2	Not significant
BABAM1	Not significant
BABAM2	Not significant

BACE2	Not significant
BACH1	Mono late down
BACH2	Not significant
BAD	Not significant
BAG3	Not significant
BAG4	Not significant
BAG5	Not significant
BAG6	Not significant
BAHD1	Not significant
BAIAP3	Not significant
BANF1	Not significant
BAP1	Not significant
BARD1	Not significant
BAT1	Not significant
BATF	Mono late up
BAZ1B	Lymph late up
BAZ2A	Not significant
BAZ2B	Mono early down
BBS2	Not significant
BBS4	Not significant
BBS7	Not significant
BBS9	Not significant
BBX	Lymph late up
BCAP29	Not significant
BCAP31	Not significant
BCAS2	Not significant
BCAS3	Not significant
BCAT2	Not significant
BCCIP	Not significant
BCDIN3D	Not significant
BCKDK	Not significant
BCL10	Not significant
BCL11B	Not significant
BCL2	Not significant
BCL2A1	Mono early up
BCL2L13	Not significant
BCL2L2-PABPN1	Mono late down
BCL6	Mono early up
BCL7B	Not significant
BCL7C	Not significant
BCL9L	Not significant
BCLAF1	Mono early down
BCLAF3	Not significant
BCOR	Not significant
BCR	Not significant

BCS1L	Not significant
BDH1	Not significant
BDH2	Not significant
BECN1	Not significant
BEND5	Lymph late up
BET1	Not significant
BEX1	Not significant
BEX2	Not significant
BEX3	Not significant
BEX4	Not significant
BHLHE40	Mono late down
BICD1	Not significant
BICD2	Not significant
BICDL1	Not significant
BICRAL	Not significant
BID	Not significant
BIN1	Mono late down
BIN2	Global late down
BIN3	Not significant
BIRC2	Global up
BIRC6	Global down
BIVM-ERCC5	Mono early down
BLM	Not significant
BLMH	Not significant
BLOC1S2	Not significant
BLOC1S6	Not significant
BLVRA	Not significant
BLVRB	Not significant
BMP2K	Not significant
BMPR2	Not significant
BNIP1	Not significant
BNIP2	Not significant
BNIP3L	Not significant
BOD1	Not significant
BOLA2B	Not significant
BOLA3	Not significant
BOP1	Not significant
BORCS7	Not significant
BPGM	Not significant
BPHL	Not significant
BPNT1	Not significant
BRAF	Not significant
BRAP	Not significant
BRAT1	Not significant
BRCA1	Not significant

BRD1	Not significant
BRD3	Not significant
BRD4	Mono early down
BRD7	Global down
BRD8	Not significant
BRD9	Not significant
BRF1	Not significant
BRF2	Not significant
BRI3	Mono late up
BRI3BP	Not significant
BRIP1	Not significant
BRIX1	Not significant
BRK1	B down
BRMS1	Not significant
BRMS1L	Not significant
BROX	Not significant
BRPF1	Mono early down
BRPF3	Not significant
BRWD3	Not significant
BSCL2	Not significant
BSDC1	Not significant
BSG	Not significant
BST1	Not significant
BST2	Mono early up
BTAF1	Not significant
BTBD11	Not significant
BTBD2	Not significant
BTBD6	Not significant
BTBD7	Not significant
BTBD8	Not significant
BTD	Not significant
BTF3	B/T early up
BTF3L4	Not significant
BTG1	B/T early up
BTG2	Not significant
BTG3	Not significant
BTLA	Not significant
BTN2A2	Not significant
BTN3A1	Not significant
BTN3A3	Not significant
BTRC	Not significant
BUB3	Not significant
BUD13	Not significant
BUD23	B/T early up
BUD31	Not significant

BZW1	Not significant
BZW2	Not significant
C10H20orf24	Mono late up
C10orf128	B down
C10orf76	Not significant
C11H12orf10	Not significant
C11H12orf29	Not significant
C11H12orf57	Mono late down
C11H12orf73	Not significant
C11orf68	Not significant
C12orf49	Not significant
C12orf65	Not significant
C13H2orf49	Not significant
C14H11orf1	Not significant
C14H11orf58	Mono late up
C15H9orf72	Not significant
C15H9orf78	Not significant
C15H9orf85	Not significant
C15orf39	Mono late down
C16H17orf49	Not significant
C16orf86	Not significant
C17orf80	Not significant
C18orf21	Not significant
C18orf25	Not significant
C19orf12	Not significant
C19orf47	Not significant
C19orf66	Global up
C19orf70	Not significant
C1D	Not significant
C1GALT1	Not significant
C1GALT1C1	Not significant
C1H1orf123	Not significant
C1H1orf35	Not significant
C1H1orf52	Not significant
C1QBP	Not significant
C1RL	Not significant
C1orf131	Not significant
C1orf159	Not significant
C1orf174	Not significant
C1orf43	Not significant
C1orf56	Not significant
C1orf74	Not significant
C20H16orf54	Global late down
C20H16orf58	Not significant
C20H16orf72	Not significant

C20H16orf87	Not significant
C21orf2	Not significant
C2CD2	Not significant
C2CD2L	Not significant
C2CD3	Not significant
C2CD5	Not significant
C2H3orf38	Not significant
C2H3orf58	Not significant
C2orf69	Not significant
C3H21orf33	Not significant
C3H21orf59	Not significant
C3H21orf91	Not significant
C3H7orf43	Not significant
C3H7orf50	Global up
C4H6orf203	Not significant
C4H6orf52	Not significant
C4H6orf62	Global up
C4H6orf89	Not significant
C5H4orf27	Not significant
C5H4orf33	Not significant
C5H4orf46	Not significant
C5orf42	Not significant
C6H5orf22	Not significant
C6H5orf24	Not significant
C6H5orf30	Not significant
C6H5orf34	Not significant
C6H5orf63	Not significant
C6orf120	Not significant
C6orf125	Not significant
C6orf48	Not significant
C7H14orf28	Not significant
C7H15orf40	Not significant
C7orf26	Not significant
C7orf55-LUC7L2	Mono early down
C8H8orf59	Not significant
C8orf33	Not significant
C8orf82	Not significant
C9H10orf88	Not significant
CA11	Not significant
CA5B	Not significant
CA6	Lymph late up
CAAP1	Not significant
CAB39	Not significant
CABIN1	Not significant
CACNA1F	Not significant

CACNB3	Not significant
CACUL1	Not significant
CACYBP	Global down
CALCOCO1	Not significant
CALCOCO2	Not significant
CALD1	Not significant
CALHM6	Mono late up
CALR	Not significant
CALU	Not significant
CAMK2D	Not significant
CAMK2G	Not significant
CAMK4	Not significant
CAMKK1	Not significant
CAMKK2	Mono late down
CAMSAP1	Not significant
CAMSAP2	Not significant
CAND1	Not significant
CANT1	Not significant
CANX	Not significant
CAP1	Global late down
CAPG	Mono late up
CAPN1	Not significant
CAPN10	Not significant
CAPN12	Not significant
CAPN15	Not significant
CAPN2	Global up
CAPN3	Not significant
CAPN7	Not significant
CAPRIN1	Not significant
CAPRIN2	Not significant
CAPZA1	NK mid up
CAPZA2	B/T early up
CAPZB	Global down
CARD11	Not significant
CARD19	Not significant
CARHSP1	Not significant
CARM1	Not significant
CARMIL1	Not significant
CARMIL2	Not significant
CARNMT1	Not significant
CARS	Not significant
CARS2	Not significant
CASC4	Not significant
CASD1	Not significant
CASK	Not significant

CASP1	Global up
CASP10	Not significant
CASP12	B/T early up
CASP2	Not significant
CASP4	Not significant
CASP7	Not significant
CASP8	Not significant
CASP8AP2	Mono early down
CASP9	Not significant
CAST	Mono early down
CAT	Mono late down
CBFB	Not significant
CBL	Not significant
CBLB	Not significant
CBR1	Not significant
CBR4	Not significant
CBWD1	Not significant
CBX1	Not significant
CBX3	Not significant
CBX4	Not significant
CBX5	Not significant
CBX6	B down
CBX7	Not significant
CC2D1A	Not significant
CC2D1B	Not significant
CCAR1	Mono early down
CCAR2	Not significant
CCDC107	Not significant
CCDC112	Not significant
CCDC115	Not significant
CCDC12	Not significant
CCDC124	Not significant
CCDC127	Not significant
CCDC130	Not significant
CCDC137	Not significant
CCDC14	Not significant
CCDC167	Not significant
CCDC17	Not significant
CCDC174	Not significant
CCDC18	Not significant
CCDC186	Not significant
CCDC22	Not significant
CCDC25	Not significant
CCDC34	Not significant
CCDC43	Not significant

CCDC47	Not significant
CCDC50	Not significant
CCDC58	Not significant
CCDC6	Not significant
CCDC66	Not significant
CCDC69	Global down
CCDC7	Not significant
CCDC77	Not significant
CCDC82	Not significant
CCDC84	Not significant
CCDC85B	Not significant
CCDC86	Not significant
CCDC88A	B down
CCDC89	Not significant
CCDC9	Not significant
CCDC90B	Not significant
CCDC91	Not significant
CCDC93	Not significant
CCDC94	Not significant
CCHCR1	Not significant
CCM2	Not significant
CCNB1	Not significant
CCNC	Not significant
CCND1	Not significant
CCND2	Not significant
CCND3	Global up
CCNDBP1	Not significant
CCNG1	Mono late down
CCNG2	Not significant
CCNH	Not significant
CCNI	Global late down
CCNJ	Not significant
CCNK	Not significant
CCNL1	Mono late down
CCNL2	Global down
CCNQ	Not significant
CCNT2	Not significant
CCNY	Not significant
CCP110	Not significant
CCPG1	NK mid up
CCR4	Not significant
CCR6	Not significant
CCR7	Not significant
CCR9	Not significant
CCSAP	Not significant

CCSER2	Global late down
CCT2	Mono late down
CCT3	Global down
CCT4	Not significant
CCT5	Mono late down
CCT6A	Global down
CCT7	Not significant
CCT8	Not significant
CD109	Not significant
CD151	Not significant
CD164	Not significant
CD2	Not significant
CD200	Not significant
CD200R1	Not significant
CD200R1L	Not significant
CD247	Not significant
CD27	Not significant
CD274	Not significant
CD28	Not significant
CD2AP	Not significant
CD2BP2	Not significant
CD320	Not significant
CD37	Global late down
CD38	Not significant
CD3D	NK mid up
CD3E	Not significant
CD3G	Not significant
CD4	Not significant
CD40LG	Not significant
CD44	Not significant
CD46	Not significant
CD47	Not significant
CD48	B/T early up
CD5	Not significant
CD52	Global late down
CD53	NK mid up
CD58	Not significant
CD6	Not significant
CD63	Mono late up
CD69	B/T early up
CD74	Mono late down
CD79A	B down
CD79B	B down
CD81	Global late down
CD82	Not significant

CD83	Mono late down
CD84	Not significant
CD8B	Not significant
CD9	Not significant
CD96	Not significant
CD99	Not significant
CD99L2	Not significant
CDADC1	Not significant
CDAN1	Not significant
CDC123	Not significant
CDC14A	Not significant
CDC16	Not significant
CDC23	Not significant
CDC25B	Not significant
CDC26	Not significant
CDC27	Not significant
CDC37	Not significant
CDC37L1	Not significant
CDC40	Not significant
CDC42	B/T early up
CDC42BPB	Not significant
CDC42EP3	Mono early up
CDC42SE1	Not significant
CDC42SE2	Global late down
CDC5L	Not significant
CDC73	Not significant
CDCA4	Not significant
CDIPT	Not significant
CDK10	Not significant
CDK12	Not significant
CDK16	Not significant
CDK17	NK mid up
CDK19	Not significant
CDK2	Not significant
CDK2AP1	Not significant
CDK3	Not significant
CDK4	Not significant
CDK5	Not significant
CDK5R1	Not significant
CDK5RAP1	Not significant
CDK5RAP2	Not significant
CDK5RAP3	Not significant
CDK6	Not significant
CDK7	Not significant
CDK8	Not significant

CDKAL1	Not significant
CDKL2	Not significant
CDKN1A	Mono late down
CDKN1B	Global late down
CDKN2AIP	Not significant
CDKN2D	Mono early up
CDR2	Not significant
CDS2	Not significant
CDV3	Global late down
CDYL	Not significant
CEBPG	Not significant
CEBPZ	Not significant
CELF1	B down
CENPB	Not significant
CENPC	Mono early down
CENPE	Not significant
CENPF	Mono late up
CENPJ	Not significant
CENPK	Not significant
CENPS-CORT	Not significant
CENPX	Not significant
CEP104	Not significant
CEP112	Not significant
CEP120	Not significant
CEP128	Not significant
CEP131	Not significant
CEP135	Not significant
CEP152	Not significant
CEP162	Not significant
CEP164	Not significant
CEP170	Global down
CEP19	Not significant
CEP250	Not significant
CEP290	Not significant
CEP295	Not significant
CEP350	Mono early down
CEP41	Not significant
CEP44	Not significant
CEP57	Not significant
CEP57L1	Not significant
CEP63	Not significant
CEP68	Not significant
CEP70	Not significant
CEP78	Mono early up
CEP83	Not significant

CEP85	Not significant
CEP85L	Not significant
CEP89	Not significant
CEP95	Not significant
CEP97	Not significant
CEPT1	Not significant
CERK	Not significant
CERS5	Not significant
CETN2	Not significant
CFAP20	Not significant
CFAP36	Not significant
CFAP97	Not significant
CFD	Mono late down
CFDP1	Not significant
CFI	Not significant
CFL1	Global down
CFL2	Not significant
CFLAR	Global up
CFP	Mono late down
CGAS	Mono late up
CGGBP1	Global late down
CHAMP1	Not significant
CHCHD2	Not significant
CHCHD3	Not significant
CHCHD7	Not significant
CHCHD8	Not significant
CHD1	Lymph late up
CHD1L	Not significant
CHD4	Lymph late up
CHD7	Not significant
CHD8	Not significant
CHD9	Mono early down
CHEK2	Not significant
CHFR	Not significant
CHI3L2	Not significant
CHID1	Not significant
CHM	Not significant
CHMP2A	Not significant
CHMP2B	Not significant
CHMP4B	Not significant
CHMP5	Mono late up
CHMP7	Not significant
CHN2	Not significant
CHORDC1	Not significant
CHP1	Not significant

CHPF	Not significant
CHPF2	Not significant
CHRA1	Not significant
CHRNA9	Not significant
CHRNA1	Not significant
CHST11	Not significant
CHST12	Not significant
CHST2	Not significant
CHSY1	Not significant
CHTF8	Not significant
CHTOP	Not significant
CHUK	Not significant
CIAO1	Not significant
CIB1	Not significant
CIC	Not significant
CINP	Not significant
CIP2A	Not significant
CIR1	Lymph late up
CIRBP	B/T early up
CISD1	Not significant
CISD3	Not significant
CISH	Not significant
CITED2	Not significant
CIZ1	Not significant
CKAP2L	Not significant
CKAP4	Mono late up
CKAP5	Not significant
CKLF	Mono late down
CLASP1	Not significant
CLASP2	Not significant
CLASRP	Not significant
CLCC1	Not significant
CLCN3	Not significant
CLCN6	Not significant
CLDND1	Not significant
CLEC16A	Not significant
CLEC2B	Global up
CLEC2D	Not significant
CLIC1	Mono late up
CLIC5	Global late down
CLINT1	Mono early down
CLIP1	Not significant
CLIP4	Not significant
CLK1	B/T early up
CLK2	Not significant

CLK3	Not significant
CLK4	Not significant
CLNS1A	Not significant
CLP1	Not significant
CLPB	Not significant
CLPP	Not significant
CLPTM1	Not significant
CLPTM1L	Global down
CLPX	Not significant
CLTA	Not significant
CLTB	Not significant
CLTC	Not significant
CLYBL	Not significant
CMAH	Not significant
CMAS	Not significant
CMC1	Not significant
CMC2	Not significant
CMIP	Mono early down
CMPK1	Not significant
CMPK2	Mono late up
CMTM3	Mono late down
CMTM6	B/T early up
CMTM7	Not significant
CMTR1	NK mid up
CMYA5	Not significant
CNBP	Not significant
CNDP2	Not significant
CNIH1	Not significant
CNIH4	Not significant
CNN2	Not significant
CNNM4	Not significant
CNOT1	Not significant
CNOT10	Not significant
CNOT2	Not significant
CNOT3	Not significant
CNOT4	Mono early down
CNOT6	Not significant
CNOT7	Not significant
CNOT8	Not significant
CNOT9	Not significant
CNP	Not significant
CNPPD1	Not significant
CNPY3	Not significant
CNST	Not significant
CNTROB	Not significant

COA1	Not significant
COA5	Not significant
COA6	Not significant
COASY	Not significant
COG1	Not significant
COG2	Not significant
COG3	Not significant
COG4	Not significant
COG5	Not significant
COG6	Not significant
COG7	Not significant
COIL	Not significant
COL4A3BP	Mono early down
COLGALT1	Not significant
COMMD1	Not significant
COMMD4	Not significant
COMMD5	Not significant
COMMD6	Global late down
COMMD7	Not significant
COMMD8	Not significant
COMMD9	Not significant
COMT	Not significant
COPA	Not significant
COPB1	Not significant
COPB2	Not significant
COPE	Not significant
COPG1	Not significant
COPRS	Not significant
COPS2	Not significant
COPS3	Not significant
COPS4	Not significant
COPS5	Not significant
COPS6	Not significant
COPS7A	Not significant
COPS7B	Not significant
COPS8	Not significant
COPZ1	Not significant
COQ2	Not significant
COQ5	Not significant
COQ6	Not significant
COQ8A	Not significant
COQ8B	Not significant
CORO1A	B down
CORO1B	Not significant
CORO1C	Not significant

CORO2A	Mono late up
CORO6	Not significant
COTL1	B down
COX10	Not significant
COX11	Not significant
COX14	Not significant
COX15	Not significant
COX16	Not significant
COX18	Not significant
COX20	Not significant
COX4I1	Global late down
COX5A	Mono early up
COX6B1	Not significant
COX6C	B down
COX7A2	Not significant
COX7AH	Not significant
COX7C	Not significant
COX8A	Mono early up
CPD	Not significant
CPEB4	Not significant
CPNE3	Not significant
CPQ	Not significant
CPSF1	Not significant
CPSF2	Not significant
CPSF3	Not significant
CPSF4	Not significant
CPSF6	Not significant
CPSF7	Not significant
CPT1A	Not significant
CR1	Not significant
CR2	Not significant
CRACR2A	Not significant
CRACR2B	Not significant
CRAMP1	Not significant
CRAT	Not significant
CRBN	Not significant
CRCP	Not significant
CREB1	Not significant
CREB3L4	Not significant
CREBBP	Mono early down
CREBL2	Not significant
CREBRF	Mono late down
CREBZF	Not significant
CREG1	Mono early up
CRELD1	Not significant

CRELD2	Not significant
CREM	Not significant
CRK	Not significant
CRLF3	Not significant
CRNKL1	Not significant
CROCC	Not significant
CROT	Not significant
CRTC2	Not significant
CRTC3	B/T early up
CRY1	Not significant
CRY2	Not significant
CRYBG1	Not significant
CRYL1	Not significant
CRYZ	Not significant
CRYZL1	Not significant
CS	Not significant
CSAD	Mono early down
CSDE1	Mono late down
CSE1L	Not significant
CSF1	B/T early up
CSGALNACT2	Not significant
CSK	B down
CSNK1A1	Not significant
CSNK1D	Not significant
CSNK1E	Not significant
CSNK1G1	Not significant
CSNK1G2	Not significant
CSNK1G3	Mono late down
CSNK2A1	Not significant
CSNK2A2	Not significant
CSNK2B	Not significant
CSPP1	Not significant
CSRNP1	Not significant
CSRP1	Not significant
CST6	Not significant
CSTB	Mono late down
CSTF1	Not significant
CSTF2	Not significant
CSTF3	Not significant
CTAGE5	Global down
CTBP1	Not significant
CTBS	Not significant
CTC1	Not significant
CTCF	Not significant
CTDNEP1	Not significant

CTDP1	Not significant
CTDSP1	Global down
CTDSP2	Not significant
CTDSPL2	Not significant
CTLA4	Not significant
CTNNA1	Not significant
CTNNB1	Not significant
CTNNBIP1	Not significant
CTNNBL1	Mono late up
CTPS1	Not significant
CTR9	Not significant
CTSA	Mono late up
CTSB	Not significant
CTSC	Not significant
CTSD	Mono late up
CTSH	Not significant
CTSK	Mono late down
CTSL	Mono late up
CTSO	Not significant
CTSS	Mono late down
CTSW	Global late down
CTSZ	Not significant
CTU2	Not significant
CUEDC2	Not significant
CUL1	Mono late up
CUL2	Not significant
CUL3	Not significant
CUL4A	Not significant
CUL4B	Not significant
CUL5	Not significant
CUL7	Not significant
CUL9	Not significant
CUTA	Not significant
CUTL1	Not significant
CWC15	Not significant
CWC22	Not significant
CWC25	Not significant
CWC27	Not significant
CWF19L1	Not significant
CXCR4	B/T early up
CXCR5	Not significant
CXHXorf38	Not significant
CXHXorf40A	Not significant
CXHXorf65	Not significant
CXXC1	NK mid up

CXXC5	Not significant
CYB5A	Not significant
CYB5B	Not significant
CYB5D2	Not significant
CYB5R3	Not significant
CYB5R4	Not significant
CYBA	Mono early up
CYC1	Not significant
CYFIP2	B down
CYHR1	Not significant
CYLD	Not significant
CYP20A1	Not significant
CYP2R1	Not significant
CYP51A1	Not significant
CYSLTR1	Not significant
CYTH1	B down
CYTH2	Not significant
CYTIP	B/T early up
DAAM1	Global down
DACT1	Not significant
DAD1	Not significant
DAG1	Not significant
DALRD3	Not significant
DAP	Not significant
DAP3	Not significant
DAPK2	Not significant
DARS	Lymph late up
DAXX	Not significant
DAZAP1	Not significant
DBF4	Not significant
DBI	B down
DBN1	Not significant
DBNL	Mono early down
DBP	Not significant
DBR1	Not significant
DCAF1	Not significant
DCAF11	Not significant
DCAF12	Not significant
DCAF15	Not significant
DCAF16	Not significant
DCAF17	Not significant
DCAF4	Not significant
DCAF5	Not significant
DCAF6	Not significant
DCAF7	Not significant

DCLRE1B	Not significant
DCLRE1C	Not significant
DCP1A	Not significant
DCP1B	Not significant
DCP2	Not significant
DCPS	Not significant
DCTD	Not significant
DCTN1	Not significant
DCTN2	Not significant
DCTN4	Not significant
DCTN5	Not significant
DCTN6	Not significant
DCTPP1	Not significant
DCUN1D1	Not significant
DCUN1D2	Not significant
DCUN1D4	Not significant
DCUN1D5	Not significant
DCXR	Not significant
DDA1	Not significant
DDB1	Not significant
DDB2	Not significant
DDHD1	Not significant
DDHD2	Not significant
DDIT3	Mono late down
DDIT4	Not significant
DDOST	Not significant
DDRGK1	Not significant
DDT	Not significant
DDX1	Global down
DDX10	Not significant
DDX17	Global late down
DDX18	Not significant
DDX19B	Not significant
DDX21	Lymph late up
DDX23	Not significant
DDX24	NK mid up
DDX27	Not significant
DDX28	Not significant
DDX31	Not significant
DDX39A	Not significant
DDX3X	B/T early up
DDX3Y	Mono early down
DDX41	Not significant
DDX42	Global down
DDX46	Mono early down

DDX47	Not significant
DDX49	Not significant
DDX5	Mono late down
DDX50	Mono late down
DDX52	Not significant
DDX54	Mono late down
DDX55	Not significant
DDX56	Not significant
DDX58	Global up
DDX59	Not significant
DDX6	Not significant
DDX60	Global up
DDX60L	Global up
DEAF1	Not significant
DECR1	Not significant
DECR2	Not significant
DEDD	Not significant
DEDD2	Not significant
DEF6	Not significant
DEF8	Not significant
DEGS1	Not significant
DEK	Global up
DENND1B	Not significant
DENND1C	Not significant
DENND4A	B down
DENND4B	Not significant
DENND4C	Not significant
DENND5A	Not significant
DENND6A	Not significant
DENND6B	Not significant
DENR	Not significant
DEPDC5	Not significant
DERL1	Not significant
DERL2	Not significant
DESI2	Not significant
DET1	Not significant
DGAT1	Not significant
DGCR6	Not significant
DGCR8	Not significant
DGKA	Lymph late up
DGKD	B down
DGKZ	Global down
DGLUCY	Not significant
DGUOK	Not significant
DHDDS	Global up

DHODH	Not significant
DHPS	Not significant
DHRS1	Not significant
DHRS13	Not significant
DHRS3	Not significant
DHRS4	Not significant
DHRS7	Mono early up
DHX15	Not significant
DHX16	Not significant
DHX29	Not significant
DHX30	Not significant
DHX32	Not significant
DHX33	Not significant
DHX35	Not significant
DHX36	Not significant
DHX37	Not significant
DHX38	Not significant
DHX57	Not significant
DHX58	Global up
DHX8	Not significant
DHX9	Not significant
DIABLO	Not significant
DIAPH1	Global down
DIAPH2	Not significant
DICER1	Not significant
DIDO1	Not significant
DIEXF	Not significant
DIP2A	Not significant
DIP2C	Not significant
DIS3	Not significant
DIS3L	Not significant
DIS3L2	Not significant
DISP1	Not significant
DKC1	Not significant
DLAT	Not significant
DLD	Not significant
DLG1	Not significant
DLG3	Not significant
DLGAP4	Not significant
DLST	Not significant
DMAC1	Not significant
DMAC2	Not significant
DMAP1	Global up
DMTF1	Mono late down
DMXL1	Not significant

DNAAF2	Not significant
DNAAF5	Not significant
DNAJA1	Mono early down
DNAJA2	Not significant
DNAJA4	Not significant
DNAJB1	Not significant
DNAJB11	Not significant
DNAJB12	Not significant
DNAJB14	Not significant
DNAJB4	Not significant
DNAJB6	Not significant
DNAJC1	Mono late down
DNAJC10	Not significant
DNAJC11	Not significant
DNAJC13	Not significant
DNAJC15	Not significant
DNAJC16	Not significant
DNAJC17	Not significant
DNAJC19	Not significant
DNAJC2	Not significant
DNAJC21	Not significant
DNAJC24	Not significant
DNAJC25	Mono early up
DNAJC27	Not significant
DNAJC4	Not significant
DNAJC7	Not significant
DNAJC8	Not significant
DNAJC9	Not significant
DNAL4	Not significant
DNASE1L1	Global late down
DNLZ	Not significant
DNM1L	Not significant
DNM2	Not significant
DNM3	Not significant
DNMBP	Not significant
DNMT1	Lymph late up
DNMT3A	Global down
DNPEP	Mono late up
DNTTIP1	Not significant
DOCK1	Not significant
DOCK10	Not significant
DOCK11	Mono early down
DOCK3	Not significant
DOCK8	Not significant
DOCK9	Not significant

DOK1	Not significant
DOK2	Not significant
DOPEY1	Not significant
DOPEY2	Not significant
DOT1L	Not significant
DPCD	Not significant
DPEP2	Global late down
DPF2	Not significant
DPH2	Not significant
DPH3	Mono early up
DPH5	Not significant
DPH6	Not significant
DPM1	Not significant
DPM2	Not significant
DPM3	Not significant
DPP3	Not significant
DPP4	Lymph late up
DPP7	Not significant
DPP8	Not significant
DPP9	Not significant
DPY19L4	Not significant
DPY30	Not significant
DPYSL2	Not significant
DPYSL4	Not significant
DRAP1	Mono late up
DRG1	Not significant
DRG2	Not significant
DROSHA	Not significant
DSN1	Not significant
DST	Mono early down
DSTN	Not significant
DSTYK	Not significant
DTD1	Not significant
DTNB	Not significant
DTNBP1	Not significant
DTX2	Not significant
DTX3	Not significant
DUS1L	Not significant
DUS2	Not significant
DUS3L	Not significant
DUSP10	Not significant
DUSP11	Not significant
DUSP16	Not significant
DUSP18	Not significant
DUSP22	Not significant

DUSP23	Not significant
DUSP6	Mono late down
DYM	Not significant
DYNC1H1	Global down
DYNC1I2	Not significant
DYNC1LI1	Not significant
DYNC1LI2	Not significant
DYNC2H1	Not significant
DYNLL1	Mono late up
DYNLL2	Not significant
DYNLRB1	B down
DYNLT1	Mono late up
DYNLT3	Not significant
DYRK1A	Not significant
DYRK1B	Not significant
DYRK2	Global late down
DZIP3	Not significant
E2F3	Not significant
E2F4	Not significant
E4F1	Not significant
EAPP	Not significant
EBAG9	Not significant
EBNA1BP2	Not significant
EBP	Not significant
ECD	Not significant
ECE1	Not significant
ECHDC1	Not significant
ECHS1	Not significant
ECI1	Not significant
ECI2	Not significant
ECPAS	Not significant
ECSIT	Not significant
EDC4	Not significant
EDEM2	Not significant
EDEM3	Not significant
EDF1	Not significant
EDRF1	Not significant
EEA1	Not significant
EED	Not significant
EEF1A1	Global late down
EEF1AKMT1	Not significant
EEF1B2	Global late down
EEF1D	Global late down
EEF1E1	Not significant
EEF1G	Global late down

EEF2	Global late down
EEF2K	Not significant
EEPD1	Not significant
EFCAB8	Not significant
EFCC1	Not significant
EFEMP2	Not significant
EFL1	Not significant
EFR3A	NK mid up
EFTUD2	Not significant
EGLN1	Not significant
EGLN2	Not significant
EGLN3	Not significant
EGR1	Mono late down
EGR2	Mono late down
EHBP1	Not significant
EHBP1L1	Not significant
EHD1	Not significant
EHD4	Not significant
EHMT1	Not significant
EHMT2	Not significant
EI24	Not significant
EIF1AD	Not significant
EIF1AX	Not significant
EIF1B	Not significant
EIF2A	Mono late down
EIF2AK1	Not significant
EIF2AK2	Global up
EIF2AK3	Not significant
EIF2AK4	Mono early down
EIF2B1	Not significant
EIF2B3	Not significant
EIF2B4	Not significant
EIF2B5	Not significant
EIF2D	Not significant
EIF2S1	Not significant
EIF2S2	Mono late up
EIF3A	Mono early down
EIF3B	Not significant
EIF3C	Mono early down
EIF3D	Global down
EIF3E	Global late down
EIF3F	Global late down
EIF3G	Global down
EIF3H	Mono late down
EIF3I	Not significant

EIF3J	Not significant
EIF3K	Global late down
EIF3M	Mono late down
EIF4A1	Mono late down
EIF4A2	NK mid up
EIF4A3	Not significant
EIF4B	Mono late down
EIF4E2	Not significant
EIF4E3	Not significant
EIF4EBP1	Not significant
EIF4ENIF1	Not significant
EIF4G1	Lymph late up
EIF4G2	B down
EIF4G3	Not significant
EIF4H	Mono late down
EIF5	B/T early up
EIF5A	Not significant
EIF5B	Lymph late up
EIPR1	Not significant
ELAC1	Not significant
ELAC2	Not significant
ELAVL1	Not significant
ELF1	B/T early up
ELF2	Not significant
ELF4	Not significant
ELK1	Not significant
ELK3	Not significant
ELK4	Not significant
ELL	Not significant
ELMO1	Not significant
ELMO2	Not significant
ELMOD3	Not significant
ELMSAN1	Mono late down
ELOA	Not significant
ELOC	Not significant
ELOVL5	Not significant
ELP1	Not significant
ELP2	Not significant
ELP3	Not significant
ELP5	Not significant
EMB	Not significant
EMC2	Not significant
EMC3	Not significant
EMC6	Not significant
EMC7	Not significant

EMC8	Not significant
EMC9	Not significant
EMD	Not significant
EMG1	Not significant
EML3	Not significant
EML4	Global down
EMP3	Not significant
EMSY	Not significant
ENDOD1	Not significant
ENDOG	Not significant
ENGASE	Not significant
ENO1	Mono late up
ENO2	Not significant
ENOX2	Not significant
ENSA	Mono late up
ENSMMUG00000000012	Not significant
ENSMMUG000000000201	Global down
ENSMMUG000000000249	Not significant
ENSMMUG000000000311	Not significant
ENSMMUG000000000331	Not significant
ENSMMUG000000000397	Not significant
ENSMMUG000000000428	Not significant
ENSMMUG000000000558	Not significant
ENSMMUG000000000663	Not significant
ENSMMUG000000000671	NK mid up
ENSMMUG000000000700	Mono late down
ENSMMUG000000000790	Not significant
ENSMMUG000000000801	Not significant
ENSMMUG000000000881	Not significant
ENSMMUG000000000983	Not significant
ENSMMUG00000001053	Not significant
ENSMMUG00000001200	Not significant
ENSMMUG00000001210	Not significant
ENSMMUG00000001239	Not significant
ENSMMUG00000001270	Not significant
ENSMMUG00000001354	Lymph late up
ENSMMUG00000001376	Not significant
ENSMMUG00000001401	Not significant
ENSMMUG00000001408	Mono early down
ENSMMUG00000001411	Not significant
ENSMMUG00000001549	Not significant
ENSMMUG00000001647	Not significant
ENSMMUG00000001884	B/T early up
ENSMMUG00000001925	Not significant
ENSMMUG00000001983	Not significant

ENSMMUG00000002003	Not significant
ENSMMUG00000002005	Global down
ENSMMUG00000002029	Not significant
ENSMMUG00000002083	Not significant
ENSMMUG00000002111	Not significant
ENSMMUG00000002153	Not significant
ENSMMUG00000002162	Not significant
ENSMMUG00000002180	Not significant
ENSMMUG00000002194	Mono late up
ENSMMUG00000002237	Not significant
ENSMMUG00000002246	Not significant
ENSMMUG00000002273	Not significant
ENSMMUG00000002324	Not significant
ENSMMUG00000002354	Not significant
ENSMMUG00000002374	Not significant
ENSMMUG00000002380	Not significant
ENSMMUG00000002538	Not significant
ENSMMUG00000002563	Not significant
ENSMMUG00000002668	Not significant
ENSMMUG00000002704	Global down
ENSMMUG00000002728	Not significant
ENSMMUG00000002859	Not significant
ENSMMUG00000002880	Not significant
ENSMMUG00000002920	Not significant
ENSMMUG00000002926	Not significant
ENSMMUG00000002989	Global late down
ENSMMUG00000003030	Not significant
ENSMMUG00000003073	Global late down
ENSMMUG00000003076	Not significant
ENSMMUG00000003187	Mono late up
ENSMMUG00000003234	Not significant
ENSMMUG00000003272	Global up
ENSMMUG00000003308	Not significant
ENSMMUG00000003339	Not significant
ENSMMUG00000003403	Not significant
ENSMMUG00000003542	Not significant
ENSMMUG00000003552	Not significant
ENSMMUG00000003629	Global up
ENSMMUG00000003646	Not significant
ENSMMUG00000003664	Mono early down
ENSMMUG00000003701	Not significant
ENSMMUG00000003835	Not significant
ENSMMUG00000003857	Not significant
ENSMMUG00000004059	Global late down
ENSMMUG00000004089	Not significant

ENSMMUG00000004127	Not significant
ENSMMUG00000004186	Global down
ENSMMUG00000004387	Not significant
ENSMMUG00000004400	Not significant
ENSMMUG00000004439	Not significant
ENSMMUG00000004511	Not significant
ENSMMUG00000004545	Not significant
ENSMMUG00000004571	Not significant
ENSMMUG00000004754	Not significant
ENSMMUG00000004863	Not significant
ENSMMUG00000004935	Mono late up
ENSMMUG00000004941	Not significant
ENSMMUG00000005007	Not significant
ENSMMUG00000005139	Not significant
ENSMMUG00000005236	Not significant
ENSMMUG00000005253	Not significant
ENSMMUG00000005293	Not significant
ENSMMUG00000005314	Not significant
ENSMMUG00000005348	Not significant
ENSMMUG00000005553	Not significant
ENSMMUG00000005593	Not significant
ENSMMUG00000005595	Not significant
ENSMMUG00000005659	Not significant
ENSMMUG00000005754	Not significant
ENSMMUG00000005880	Not significant
ENSMMUG00000005919	Not significant
ENSMMUG00000005958	Global late down
ENSMMUG00000006148	Not significant
ENSMMUG00000006283	Not significant
ENSMMUG00000006293	Not significant
ENSMMUG00000006343	Not significant
ENSMMUG00000006383	Global down
ENSMMUG00000006443	Not significant
ENSMMUG00000006463	Global down
ENSMMUG00000006499	Mono early down
ENSMMUG00000006514	Not significant
ENSMMUG00000006608	Not significant
ENSMMUG00000006718	Not significant
ENSMMUG00000006747	Not significant
ENSMMUG00000006854	Not significant
ENSMMUG00000006855	Not significant
ENSMMUG00000006919	Not significant
ENSMMUG00000006971	Not significant
ENSMMUG00000006979	Not significant
ENSMMUG00000006987	Not significant

ENSMMUG00000007421	Not significant
ENSMMUG00000007426	Not significant
ENSMMUG00000007475	Not significant
ENSMMUG00000007536	Global down
ENSMMUG00000007732	Not significant
ENSMMUG00000007833	Not significant
ENSMMUG00000007939	Not significant
ENSMMUG00000007970	Not significant
ENSMMUG00000008097	Not significant
ENSMMUG00000008124	Not significant
ENSMMUG00000008173	Not significant
ENSMMUG00000008222	Lymph late up
ENSMMUG00000008285	Not significant
ENSMMUG00000008295	Not significant
ENSMMUG00000008378	Not significant
ENSMMUG00000008396	Not significant
ENSMMUG00000008417	Not significant
ENSMMUG00000008435	B/T early up
ENSMMUG00000008459	Not significant
ENSMMUG00000008525	Not significant
ENSMMUG00000008604	Mono early up
ENSMMUG00000008632	Not significant
ENSMMUG00000008642	Not significant
ENSMMUG00000008667	Not significant
ENSMMUG00000008695	Not significant
ENSMMUG00000008755	Not significant
ENSMMUG00000009155	Not significant
ENSMMUG00000009272	Not significant
ENSMMUG00000009302	Not significant
ENSMMUG00000009406	Not significant
ENSMMUG00000009425	Not significant
ENSMMUG00000009671	Not significant
ENSMMUG00000009948	Global down
ENSMMUG00000010011	Not significant
ENSMMUG00000010062	Not significant
ENSMMUG00000010070	Not significant
ENSMMUG00000010180	Not significant
ENSMMUG00000010226	Mono late up
ENSMMUG00000010236	Not significant
ENSMMUG00000010253	Not significant
ENSMMUG00000010387	Not significant
ENSMMUG00000010392	Global late down
ENSMMUG00000010418	Not significant
ENSMMUG00000010459	Not significant
ENSMMUG00000010556	Not significant

ENSMMUG00000010603	Not significant
ENSMMUG00000010691	B/T early up
ENSMMUG00000010828	Not significant
ENSMMUG00000010892	Not significant
ENSMMUG00000011229	Not significant
ENSMMUG00000011244	Not significant
ENSMMUG00000011287	Global down
ENSMMUG00000011293	Not significant
ENSMMUG00000011336	Global down
ENSMMUG00000011422	Not significant
ENSMMUG00000011468	Not significant
ENSMMUG00000011604	Not significant
ENSMMUG00000011711	Not significant
ENSMMUG00000011714	Not significant
ENSMMUG00000011787	Not significant
ENSMMUG00000011806	Not significant
ENSMMUG00000011871	Not significant
ENSMMUG00000011880	Not significant
ENSMMUG00000011896	Not significant
ENSMMUG00000012047	NK mid up
ENSMMUG00000012081	Not significant
ENSMMUG00000012140	B/T early up
ENSMMUG00000012179	Not significant
ENSMMUG00000012203	Not significant
ENSMMUG00000012291	Not significant
ENSMMUG00000012367	Not significant
ENSMMUG00000012397	Not significant
ENSMMUG00000012474	Not significant
ENSMMUG00000012525	Not significant
ENSMMUG00000012537	Not significant
ENSMMUG00000012709	Not significant
ENSMMUG00000012843	Not significant
ENSMMUG00000012956	Not significant
ENSMMUG00000013059	Not significant
ENSMMUG00000013060	Not significant
ENSMMUG00000013126	Not significant
ENSMMUG00000013136	Mono late down
ENSMMUG00000013256	Global up
ENSMMUG00000013257	Global up
ENSMMUG00000013258	Not significant
ENSMMUG00000013343	Not significant
ENSMMUG00000013388	B/T early up
ENSMMUG00000013949	Not significant
ENSMMUG00000014083	Not significant
ENSMMUG00000014256	Global late down

ENSMMUG00000014352	Not significant
ENSMMUG00000014418	Not significant
ENSMMUG00000014460	Not significant
ENSMMUG00000014489	Not significant
ENSMMUG00000014648	Not significant
ENSMMUG00000014855	Not significant
ENSMMUG00000014862	Global down
ENSMMUG00000014892	Not significant
ENSMMUG00000014911	Not significant
ENSMMUG00000015025	Not significant
ENSMMUG00000015130	Not significant
ENSMMUG00000015270	Global late down
ENSMMUG00000015316	Not significant
ENSMMUG00000015442	Not significant
ENSMMUG00000015583	Mono late down
ENSMMUG00000015667	Not significant
ENSMMUG00000015749	Mono late up
ENSMMUG00000015781	B/T early up
ENSMMUG00000015832	Not significant
ENSMMUG00000015841	Not significant
ENSMMUG00000015861	Not significant
ENSMMUG00000015963	Not significant
ENSMMUG00000016009	Not significant
ENSMMUG00000016044	Not significant
ENSMMUG00000016082	Not significant
ENSMMUG00000016086	Not significant
ENSMMUG00000016129	Not significant
ENSMMUG00000016306	Not significant
ENSMMUG00000016383	Not significant
ENSMMUG00000016403	Not significant
ENSMMUG00000016453	Not significant
ENSMMUG00000016517	Not significant
ENSMMUG00000016621	Not significant
ENSMMUG00000016632	Not significant
ENSMMUG00000016898	Not significant
ENSMMUG00000017044	Not significant
ENSMMUG00000017077	Not significant
ENSMMUG00000017231	Not significant
ENSMMUG00000017270	Not significant
ENSMMUG00000017278	Not significant
ENSMMUG00000017400	Not significant
ENSMMUG00000017420	Not significant
ENSMMUG00000017463	Not significant
ENSMMUG00000017466	Mono late down
ENSMMUG00000017625	Not significant

ENSMMUG00000017782	Not significant
ENSMMUG00000017838	Not significant
ENSMMUG00000017841	Not significant
ENSMMUG00000017890	Not significant
ENSMMUG00000017921	Mono late up
ENSMMUG00000017989	Not significant
ENSMMUG00000018064	Not significant
ENSMMUG00000018208	Not significant
ENSMMUG00000018224	Not significant
ENSMMUG00000018252	Not significant
ENSMMUG00000018463	Not significant
ENSMMUG00000018535	Not significant
ENSMMUG00000018579	Not significant
ENSMMUG00000018757	Not significant
ENSMMUG00000018813	Not significant
ENSMMUG00000018854	B down
ENSMMUG00000018935	Not significant
ENSMMUG00000019075	Not significant
ENSMMUG00000019141	NK mid up
ENSMMUG00000019143	Not significant
ENSMMUG00000019238	Not significant
ENSMMUG00000019251	Mono late up
ENSMMUG00000019282	Not significant
ENSMMUG00000019283	Not significant
ENSMMUG00000019288	Not significant
ENSMMUG00000019323	Not significant
ENSMMUG00000019335	Not significant
ENSMMUG00000019376	Not significant
ENSMMUG00000019405	Not significant
ENSMMUG00000019427	Not significant
ENSMMUG00000019505	Not significant
ENSMMUG00000019582	Mono early down
ENSMMUG00000019656	Not significant
ENSMMUG00000019785	Mono late down
ENSMMUG00000019875	Not significant
ENSMMUG00000019912	Not significant
ENSMMUG00000019933	Not significant
ENSMMUG00000019944	Not significant
ENSMMUG00000020055	Not significant
ENSMMUG00000020125	Not significant
ENSMMUG00000020148	Not significant
ENSMMUG00000020157	Global up
ENSMMUG00000020178	Not significant
ENSMMUG00000020200	Mono late down
ENSMMUG00000020269	Not significant

ENSMMUG00000020275	Not significant
ENSMMUG00000020321	Not significant
ENSMMUG00000020433	Not significant
ENSMMUG00000020449	Not significant
ENSMMUG00000020603	Not significant
ENSMMUG00000020716	Global down
ENSMMUG00000020721	Not significant
ENSMMUG00000020813	Not significant
ENSMMUG00000020920	Not significant
ENSMMUG00000020941	Not significant
ENSMMUG00000020989	Not significant
ENSMMUG00000020999	Not significant
ENSMMUG00000021075	Not significant
ENSMMUG00000021085	Not significant
ENSMMUG00000021379	Global down
ENSMMUG00000021425	Not significant
ENSMMUG00000021448	Not significant
ENSMMUG00000021460	Not significant
ENSMMUG00000021539	Not significant
ENSMMUG00000021561	Not significant
ENSMMUG00000021593	Not significant
ENSMMUG00000021766	Global up
ENSMMUG00000021780	Not significant
ENSMMUG00000021826	Not significant
ENSMMUG00000021916	Not significant
ENSMMUG00000021939	Not significant
ENSMMUG00000021944	Not significant
ENSMMUG00000021969	Not significant
ENSMMUG00000021980	Global late down
ENSMMUG00000022075	B down
ENSMMUG00000022084	Not significant
ENSMMUG00000022094	Not significant
ENSMMUG00000022130	Global down
ENSMMUG00000022153	Not significant
ENSMMUG00000022179	Not significant
ENSMMUG00000022316	Not significant
ENSMMUG00000022610	Global late down
ENSMMUG00000022769	Not significant
ENSMMUG00000022772	Global late down
ENSMMUG00000022874	Not significant
ENSMMUG00000022958	Not significant
ENSMMUG00000022990	Not significant
ENSMMUG00000023138	Mono early down
ENSMMUG00000023144	Not significant
ENSMMUG00000023179	Not significant

ENSMMUG00000023202	Not significant
ENSMMUG00000023352	Not significant
ENSMMUG00000023454	Mono late up
ENSMMUG00000023474	Not significant
ENSMMUG00000023575	Mono late down
ENSMMUG00000023620	Not significant
ENSMMUG00000023683	Not significant
ENSMMUG00000023805	Not significant
ENSMMUG00000023807	Global late down
ENSMMUG00000028709	Not significant
ENSMMUG00000028890	Not significant
ENSMMUG00000028906	Not significant
ENSMMUG00000028931	Not significant
ENSMMUG00000028937	Not significant
ENSMMUG00000029026	Global down
ENSMMUG00000029338	Not significant
ENSMMUG00000029343	Not significant
ENSMMUG00000029348	Not significant
ENSMMUG00000029361	Not significant
ENSMMUG00000029374	Not significant
ENSMMUG00000029377	B down
ENSMMUG00000029417	Not significant
ENSMMUG00000029426	Not significant
ENSMMUG00000029540	Not significant
ENSMMUG00000029627	Not significant
ENSMMUG00000029652	Not significant
ENSMMUG00000029672	Not significant
ENSMMUG00000029692	Mono early up
ENSMMUG00000029695	Not significant
ENSMMUG00000029756	Not significant
ENSMMUG00000029875	Not significant
ENSMMUG00000029952	Not significant
ENSMMUG00000030117	Global down
ENSMMUG00000030179	Not significant
ENSMMUG00000030183	Not significant
ENSMMUG00000030210	Not significant
ENSMMUG00000030356	Not significant
ENSMMUG00000030408	Not significant
ENSMMUG00000030445	Global down
ENSMMUG00000030448	Global down
ENSMMUG00000030508	Not significant
ENSMMUG00000030563	Not significant
ENSMMUG00000030588	Not significant
ENSMMUG00000030606	Not significant
ENSMMUG00000030679	Not significant

ENSMMUG00000030680	Not significant
ENSMMUG00000030761	Not significant
ENSMMUG00000030811	Not significant
ENSMMUG00000030827	Not significant
ENSMMUG00000030892	Not significant
ENSMMUG00000030920	Not significant
ENSMMUG00000030947	Not significant
ENSMMUG00000031000	Not significant
ENSMMUG00000031002	Not significant
ENSMMUG00000031017	Not significant
ENSMMUG00000031056	Not significant
ENSMMUG00000031189	Global down
ENSMMUG00000031250	Not significant
ENSMMUG00000031260	Not significant
ENSMMUG00000031300	Not significant
ENSMMUG00000031336	Global up
ENSMMUG00000031385	Not significant
ENSMMUG00000031424	Not significant
ENSMMUG00000031524	Global down
ENSMMUG00000031592	Not significant
ENSMMUG00000031770	Not significant
ENSMMUG00000031840	Not significant
ENSMMUG00000031898	Not significant
ENSMMUG00000031944	Not significant
ENSMMUG00000031947	Global down
ENSMMUG00000032072	B/T early up
ENSMMUG00000032091	Not significant
ENSMMUG00000032216	Not significant
ENSMMUG00000032342	Not significant
ENSMMUG00000032350	Not significant
ENSMMUG00000032421	Global down
ENSMMUG00000032441	Not significant
ENSMMUG00000032470	Not significant
ENSMMUG00000032487	Not significant
ENSMMUG00000032537	Not significant
ENSMMUG00000032553	Not significant
ENSMMUG00000032583	Not significant
ENSMMUG00000037540	Not significant
ENSMMUG00000037667	Not significant
ENSMMUG00000037710	Not significant
ENSMMUG00000037731	Not significant
ENSMMUG00000037893	Not significant
ENSMMUG00000037975	Not significant
ENSMMUG00000037977	Not significant
ENSMMUG00000038060	Not significant

ENSMMUG00000038133	Not significant
ENSMMUG00000038181	Not significant
ENSMMUG00000038230	Not significant
ENSMMUG00000038373	Mono late down
ENSMMUG00000038476	Not significant
ENSMMUG00000038487	Not significant
ENSMMUG00000038493	Not significant
ENSMMUG00000038528	Global late down
ENSMMUG00000038530	Not significant
ENSMMUG00000038543	Not significant
ENSMMUG00000038560	Not significant
ENSMMUG00000038562	Not significant
ENSMMUG00000038581	Not significant
ENSMMUG00000038586	Global late down
ENSMMUG00000038662	Not significant
ENSMMUG00000038908	Not significant
ENSMMUG00000038991	Not significant
ENSMMUG00000039018	Not significant
ENSMMUG00000039027	Not significant
ENSMMUG00000039100	Not significant
ENSMMUG00000039173	Not significant
ENSMMUG00000039254	Not significant
ENSMMUG00000039255	Not significant
ENSMMUG00000039321	Not significant
ENSMMUG00000039405	Not significant
ENSMMUG00000039519	Global up
ENSMMUG00000039566	Not significant
ENSMMUG00000039599	Not significant
ENSMMUG00000039741	Not significant
ENSMMUG00000039765	Not significant
ENSMMUG00000039771	Not significant
ENSMMUG00000039851	Not significant
ENSMMUG00000039855	Not significant
ENSMMUG00000039874	Not significant
ENSMMUG00000039895	Not significant
ENSMMUG00000039942	Not significant
ENSMMUG00000039978	Not significant
ENSMMUG00000040073	Not significant
ENSMMUG00000040076	Not significant
ENSMMUG00000040144	Not significant
ENSMMUG00000040221	Not significant
ENSMMUG00000040237	Not significant
ENSMMUG00000040273	Not significant
ENSMMUG00000040334	Not significant
ENSMMUG00000040341	Not significant

ENSMMUG00000040361	Not significant
ENSMMUG00000040370	Not significant
ENSMMUG00000040409	Not significant
ENSMMUG00000040411	Not significant
ENSMMUG00000040417	B down
ENSMMUG00000040488	Not significant
ENSMMUG00000040500	Not significant
ENSMMUG00000040554	Not significant
ENSMMUG00000040571	Not significant
ENSMMUG00000040586	Not significant
ENSMMUG00000040778	Not significant
ENSMMUG00000040780	Global up
ENSMMUG00000040957	Not significant
ENSMMUG00000040966	Not significant
ENSMMUG00000040977	Not significant
ENSMMUG00000040997	Not significant
ENSMMUG00000041132	Not significant
ENSMMUG00000041144	Global up
ENSMMUG00000041147	Not significant
ENSMMUG00000041169	Not significant
ENSMMUG00000041217	Not significant
ENSMMUG00000041268	Not significant
ENSMMUG00000041303	Not significant
ENSMMUG00000041305	Global up
ENSMMUG00000041316	Not significant
ENSMMUG00000041391	Global late down
ENSMMUG00000041453	Not significant
ENSMMUG00000041491	Not significant
ENSMMUG00000041524	Not significant
ENSMMUG00000041539	Not significant
ENSMMUG00000041575	Not significant
ENSMMUG00000041595	Not significant
ENSMMUG00000041662	Mono late up
ENSMMUG00000041670	Not significant
ENSMMUG00000041672	Not significant
ENSMMUG00000041701	Not significant
ENSMMUG00000041712	Not significant
ENSMMUG00000041714	Not significant
ENSMMUG00000041735	Not significant
ENSMMUG00000041755	Not significant
ENSMMUG00000041773	Not significant
ENSMMUG00000041805	Not significant
ENSMMUG00000041825	Not significant
ENSMMUG00000041909	Not significant
ENSMMUG00000041947	Not significant

ENSMMUG00000041960	Not significant
ENSMMUG00000042067	Global up
ENSMMUG00000042113	Global down
ENSMMUG00000042124	Not significant
ENSMMUG00000042153	Not significant
ENSMMUG00000042157	Not significant
ENSMMUG00000042331	Not significant
ENSMMUG00000042390	Not significant
ENSMMUG00000042412	Not significant
ENSMMUG00000042418	Not significant
ENSMMUG00000042545	Not significant
ENSMMUG00000042611	Not significant
ENSMMUG00000042613	Not significant
ENSMMUG00000042620	Not significant
ENSMMUG00000042631	Not significant
ENSMMUG00000042673	Not significant
ENSMMUG00000042828	Not significant
ENSMMUG00000042837	Not significant
ENSMMUG00000043101	Not significant
ENSMMUG00000043108	Not significant
ENSMMUG00000043389	Not significant
ENSMMUG00000043426	Not significant
ENSMMUG00000043473	Not significant
ENSMMUG00000043509	Not significant
ENSMMUG00000043556	Not significant
ENSMMUG00000043588	Not significant
ENSMMUG00000043614	Not significant
ENSMMUG00000043617	Not significant
ENSMMUG00000043656	Not significant
ENSMMUG00000043836	Not significant
ENSMMUG00000043897	Not significant
ENSMMUG00000043934	Not significant
ENSMMUG00000044031	Not significant
ENSMMUG00000044088	Global down
ENSMMUG00000044103	B/T early up
ENSMMUG00000044258	Not significant
ENSMMUG00000044288	Not significant
ENSMMUG00000044294	Global down
ENSMMUG00000044354	Not significant
ENSMMUG00000044360	Not significant
ENSMMUG00000044392	Not significant
ENSMMUG00000044488	Global down
ENSMMUG00000044566	Not significant
ENSMMUG00000044583	Not significant
ENSMMUG00000044632	Not significant

ENSMMUG00000044639	Not significant
ENSMMUG00000044709	Not significant
ENSMMUG00000044712	Not significant
ENSMMUG00000044788	Not significant
ENSMMUG00000044793	Not significant
ENSMMUG00000044871	Not significant
ENSMMUG00000044910	Not significant
ENSMMUG00000044959	Not significant
ENSMMUG00000045160	Not significant
ENSMMUG00000045197	Not significant
ENSMMUG00000045233	Not significant
ENSMMUG00000045257	Not significant
ENSMMUG00000045320	Not significant
ENSMMUG00000045339	Global down
ENSMMUG00000045382	Not significant
ENSMMUG00000045385	Not significant
ENSMMUG00000045431	Not significant
ENSMMUG00000045511	Not significant
ENSMMUG00000045582	Not significant
ENSMMUG00000045620	Not significant
ENSMMUG00000045640	Not significant
ENSMMUG00000045659	Not significant
ENSMMUG00000045853	Not significant
ENSMMUG00000045895	Not significant
ENSMMUG00000045902	Not significant
ENSMMUG00000046023	Not significant
ENSMMUG00000046028	Not significant
ENSMMUG00000046130	Not significant
ENSMMUG00000046132	Not significant
ENSMMUG00000046225	Not significant
ENSMMUG00000046228	Not significant
ENSMMUG00000046261	Not significant
ENSMMUG00000046273	Not significant
ENSMMUG00000046437	Not significant
ENSMMUG00000046487	B/T early up
ENSMMUG00000046512	Not significant
ENSMMUG00000046548	Not significant
ENSMMUG00000046648	Not significant
ENSMMUG00000046717	Mono late up
ENSMMUG00000046857	Not significant
ENSMMUG00000046996	Global down
ENSMMUG00000047035	Not significant
ENSMMUG00000047218	Not significant
ENSMMUG00000047234	Global down
ENSMMUG00000047344	Not significant

ENSMMUG00000047411	Global down
ENSMMUG00000047461	Global up
ENSMMUG00000047481	Not significant
ENSMMUG00000047590	Not significant
ENSMMUG00000047632	Not significant
ENSMMUG00000047655	Global down
ENSMMUG00000047800	Mono late up
ENSMMUG00000047819	Not significant
ENSMMUG00000047831	Global late down
ENSMMUG00000047833	Not significant
ENSMMUG00000047896	Not significant
ENSMMUG00000047918	Not significant
ENSMMUG00000047946	Not significant
ENSMMUG00000048033	Not significant
ENSMMUG00000048059	Not significant
ENSMMUG00000048382	Not significant
ENSMMUG00000048425	Global late down
ENSMMUG00000048482	Not significant
ENSMMUG00000048532	Not significant
ENSMMUG00000048763	Not significant
ENSMMUG00000048806	Global up
ENSMMUG00000048920	Not significant
ENSMMUG00000048926	Not significant
ENSMMUG00000048976	Not significant
ENSMMUG00000049007	Not significant
ENSMMUG00000049089	Not significant
ENSMMUG00000049104	Not significant
ENSMMUG00000049151	B/T early up
ENSMMUG00000049198	Global late down
ENTPD4	NK mid up
ENTPD6	Not significant
ENY2	Not significant
EP300	Not significant
EPB41	Global down
EPB41L4A	Not significant
EPC1	Global late down
EPC2	Not significant
EPG5	Not significant
EPHB6	Not significant
EPM2AIP1	Not significant
EPN1	Not significant
EPRS	Not significant
EPS15	Not significant
EPS15L1	Not significant
EPS8L2	Not significant

EPSTI1	Global up
ERAL1	Not significant
ERAP1	Not significant
ERAP2	B/T early up
ERBIN	Not significant
ERC1	Mono early down
ERCC1	Not significant
ERCC4	Not significant
ERCC6	Not significant
ERGIC2	Not significant
ERGIC3	Not significant
ERH	Not significant
ERI1	Not significant
ERI3	Not significant
ERICH1	Not significant
ERLEC1	Not significant
ERLIN1	Not significant
ERMARD	Not significant
ERN1	Not significant
ERO1A	Mono early up
ERO1B	Not significant
ERP27	Not significant
ERP44	Not significant
ESCO1	Mono early down
ESD	Not significant
ESS2	Not significant
ESYT1	Global down
ESYT2	Global down
ETF1	Not significant
ETFA	Not significant
ETFB	Mono late up
ETHE1	Not significant
ETS1	Global down
ETS2	B/T early up
ETV3	Not significant
ETV6	Not significant
EVA1B	Not significant
EVI2B	B/T early up
EVL	Global late down
EWSR1	Not significant
EXD2	Not significant
EXOC1	Not significant
EXOC2	Not significant
EXOC3	Not significant
EXOC5	Not significant

EXOC6	Not significant
EXOC7	Not significant
EXOC8	Not significant
EXOSC1	Not significant
EXOSC10	Not significant
EXOSC3	Not significant
EXOSC4	Not significant
EXOSC7	Mono late up
EXOSC8	Not significant
EXOSC9	Not significant
EXPH5	Not significant
EXT2	Not significant
EXTL2	Not significant
EXTL3	Not significant
EZH1	Not significant
EZH2	Not significant
EZR	Not significant
F5	Not significant
FAAH	Not significant
FAAH2	Not significant
FAAP100	Not significant
FAAP24	Not significant
FAF1	Not significant
FAF2	Not significant
FAH	Not significant
FAIM	Not significant
FAM102A	Not significant
FAM103A1	Not significant
FAM104A	Not significant
FAM104B	Not significant
FAM105A	Not significant
FAM107B	Global late down
FAM110A	Mono late down
FAM111A	Mono late up
FAM114A2	Not significant
FAM118A	Not significant
FAM120A	Mono late down
FAM120B	Not significant
FAM122B	Not significant
FAM126A	Not significant
FAM126B	Not significant
FAM129A	Mono late up
FAM133B	Not significant
FAM136A	Not significant
FAM13B	Mono early down

FAM149B1	Not significant
FAM160A2	Not significant
FAM160B1	Not significant
FAM160B2	Not significant
FAM162A	Not significant
FAM169A	Not significant
FAM172A	Not significant
FAM184A	Not significant
FAM189B	Not significant
FAM192A	Not significant
FAM193A	Not significant
FAM193B	Not significant
FAM19A5	Not significant
FAM200B	Not significant
FAM204A	Not significant
FAM206A	Not significant
FAM207A	Not significant
FAM208A	Not significant
FAM208B	Not significant
FAM210A	Not significant
FAM210B	Not significant
FAM212A	Not significant
FAM213A	Not significant
FAM214A	Not significant
FAM217B	Not significant
FAM219A	Not significant
FAM220A	Not significant
FAM222B	Not significant
FAM234A	Not significant
FAM241A	Not significant
FAM32A	Not significant
FAM35A	Not significant
FAM3A	Not significant
FAM3C	B/T early up
FAM46A	B/T early up
FAM46C	B/T early up
FAM49B	NK mid up
FAM50A	Mono early down
FAM53A	Not significant
FAM53B	Global late down
FAM53C	Not significant
FAM69A	Not significant
FAM76A	Not significant
FAM76B	Not significant
FAM78A	Not significant

FAM84B	Not significant
FAM89A	Mono late up
FAM89B	Not significant
FAM91A1	Not significant
FAM96A	Not significant
FAM96B	Not significant
FAM98A	Not significant
FAM98B	Not significant
FAM98C	Not significant
FAN1	Not significant
FANCC	Not significant
FANCD2	Not significant
FANCE	Not significant
FANCG	Not significant
FANCI	Not significant
FANCM	Not significant
FAR1	Not significant
FARS2	Not significant
FARSA	Not significant
FARSB	Not significant
FAS	Global up
FASN	Not significant
FASTK	Not significant
FASTKD1	Not significant
FASTKD2	Not significant
FASTKD5	Not significant
FAU	Global late down
FAXDC2	Not significant
FBL	Global down
FBLN5	Not significant
FBR5	Not significant
FBXL12	Not significant
FBXL17	Not significant
FBXL20	Not significant
FBXL3	Not significant
FBXL4	Not significant
FBXL5	Not significant
FBXL6	Not significant
FBXO11	Not significant
FBXO18	Not significant
FBXO21	Not significant
FBXO22	Not significant
FBXO25	Not significant
FBXO28	Not significant
FBXO3	Not significant

FBXO31	Not significant
FBXO32	Not significant
FBXO33	Not significant
FBXO34	Not significant
FBXO38	Not significant
FBXO4	Not significant
FBXO42	Not significant
FBXO44	Not significant
FBXO45	Not significant
FBXO5	Not significant
FBXO7	Mono late up
FBXO8	Not significant
FBXO9	Mono late up
FBXW11	Not significant
FBXW2	Not significant
FBXW5	Not significant
FBXW7	Mono early down
FBXW8	Not significant
FCGRT	Not significant
FCHO1	Not significant
FCHO2	Mono late down
FCHSD2	Not significant
FCMR	Not significant
FDFT1	Not significant
FDXR	Not significant
FEM1B	Not significant
FEM1C	Not significant
FER	Not significant
FER1L5	Not significant
FERMT3	Mono late up
FEZ2	Not significant
FGD3	Global late down
FGFR10P	Not significant
FGFR10P2	Not significant
FGL2	Mono late down
FH	Not significant
FHL3	Not significant
FHOD1	Not significant
FIBP	Not significant
FIG4	Not significant
FIGNL1	Not significant
FIS1	Global down
FKBP15	Mono early down
FKBP2	Not significant
FKBP3	Not significant

FKBP4	Not significant
FKBP5	Global up
FKBP8	Not significant
FKBPL	Not significant
FKRP	Not significant
FKTN	Not significant
FLAD1	Not significant
FLCN	Not significant
FLI1	Global late down
FLII	Mono late down
FLNA	Global down
FLNB	Not significant
FLOT1	Mono late up
FLOT2	Not significant
FLT3LG	Not significant
FLYWCH1	Not significant
FLYWCH2	Not significant
FMNL1	Mono late down
FMR1	Not significant
FN3KRP	Not significant
FNBP1	B down
FNBP1L	Not significant
FNDC3A	Not significant
FNDC3B	Not significant
FNIP1	Mono early down
FNTB	B/T early up
FOS	B/T early up
FOSB	B/T early up
FOSL2	Not significant
FOXJ2	Not significant
FOXJ3	Not significant
FOXK2	Not significant
FOXN2	Not significant
FOXN3	Not significant
FOXO1	Mono late down
FOXO3	Mono late down
FOXO4	Not significant
FOXP1	Mono late down
FOXP3	Not significant
FOXRED1	Not significant
FPGS	Not significant
FRA10AC1	Not significant
FRAT2	Not significant
FRG1	Not significant
FRMD4B	Not significant

FRMD6	Not significant
FRMD8	Not significant
FRS2	Not significant
FRYL	Mono early down
FSD1	Not significant
FTH1	B/T early up
FTL	Mono late up
FTO	Not significant
FTSJ1	Not significant
FTSJ3	Not significant
FUBP1	Global up
FUCA1	Not significant
FUCA2	Not significant
FUNDC2	Not significant
FURIN	Not significant
FUS	Lymph late up
FUT11	Not significant
FUT8	Not significant
FUZ	Not significant
FXN	Not significant
FXR1	Mono early down
FXR2	Not significant
FXYD5	Not significant
FYB1	Mono late up
FYCO1	Not significant
FYN	Global late down
FYTTD1	Not significant
FZR1	Not significant
G2E3	Not significant
G3BP1	Not significant
G6PD	Not significant
GAA	Not significant
GAB3	Not significant
GABARAP	Not significant
GABARAPL1	Not significant
GABBR1	Not significant
GABPA	Not significant
GABPB1	Not significant
GABPB2	Not significant
GADD45A	Mono late up
GADD45B	B/T early up
GADD45G	Not significant
GADD45GIP1	Not significant
GAK	Not significant
GAL3ST4	Not significant

GALC	Not significant
GALE	Not significant
GALK1	Not significant
GALNS	Not significant
GALNT1	Not significant
GALNT10	Not significant
GALNT11	Not significant
GALNT12	Not significant
GALNT2	Not significant
GALNT6	Not significant
GALNT7	Not significant
GANAB	Not significant
GAPDH	Mono late up
GAPDHS	Not significant
GAPVD1	Not significant
GAR1	Not significant
GARS	Not significant
GART	Not significant
GAS8	Not significant
GATA3	Not significant
GATAD1	Not significant
GATAD2A	Not significant
GATAD2B	Not significant
GATC	Not significant
GBA	Not significant
GBF1	Not significant
GBP2	Global up
GCC1	Not significant
GCC2	Mono early down
GCFC2	Not significant
GCLC	Not significant
GCLM	Not significant
GCN1	Not significant
GCNT1	Not significant
GCNT4	Not significant
GCOM1	Not significant
GDE1	Not significant
GDF9	Not significant
GDI1	Not significant
GDI2	B down
GEMIN4	Not significant
GEMIN5	Not significant
GEMIN8	Not significant
GET4	Not significant
GFER	Not significant

GFM1	Not significant
GFM2	Not significant
GGA1	Not significant
GGA2	Not significant
GGA3	Not significant
GGACT	Not significant
GGCX	Not significant
GGNBP2	Not significant
GGPS1	Not significant
GHDC	Not significant
GHITM	Not significant
GID4	Not significant
GIGYF1	Not significant
GIGYF2	Mono early down
GIMAP2	Not significant
GIMAP4	Mono late up
GIMAP6	Global up
GIMAP7	Lymph late up
GIMAP8	Mono late up
GINM1	Not significant
GIPC2	Not significant
GIT1	Not significant
GIT2	Not significant
GKAP1	Not significant
GLA	Mono late down
GLB1	Not significant
GLCCI1	Global late down
GLCE	Not significant
GLE1	Not significant
GLG1	Not significant
GLIPR1	NK mid up
GLIPR2	Global down
GLMN	Not significant
GLMP	Not significant
GLO1	Not significant
GLOD4	Not significant
GLRX	Mono late up
GLRX2	Not significant
GLRX3	Not significant
GLS	Not significant
GLT8D1	Not significant
GLTP	Mono late down
GLYR1	Not significant
GM2A	Mono early up
GMDS	Not significant

GMEB1	Not significant
GMEB2	Not significant
GMFB	Not significant
GMFG	Not significant
GMIP	Not significant
GMNN	Not significant
GMPPA	Not significant
GMPR2	Not significant
GMPS	Not significant
GNA12	Not significant
GNA13	Global late down
GNAI2	Not significant
GNAI3	Not significant
GNAS	Global late down
GNB1	Not significant
GNB2	Not significant
GNE	Not significant
GNG11	Mono late up
GNG5	Not significant
GNL1	Not significant
GNL2	Not significant
GNL3	Not significant
GNL3L	Not significant
GNLY	NK mid up
GNPAT	Not significant
GNPTAB	Not significant
GNPTG	Not significant
GNRH1	Not significant
GNS	Mono early up
GOLGA1	Not significant
GOLGA2	Not significant
GOLGA3	B down
GOLGA5	Not significant
GOLGA7	Not significant
GOLGB1	Global down
GOLIM4	Global late down
GOLPH3	Not significant
GOLPH3L	Not significant
GOLT1B	Not significant
GON4L	Not significant
GORASP2	Not significant
GOSR1	Not significant
GPAA1	Not significant
GPALPP1	Not significant
GPAM	Not significant

GPAT4	Not significant
GPATCH1	Not significant
GPATCH11	Not significant
GPATCH2	Not significant
GPATCH4	Not significant
GPATCH8	Not significant
GPBAR1	Not significant
GPBP1	Lymph late up
GPBP1L1	Not significant
GPCPD1	Mono late down
GPD1L	Not significant
GPD2	Not significant
GPHN	Not significant
GPKOW	Not significant
GPN1	Not significant
GPN2	Not significant
GPN3	Not significant
GPR107	Not significant
GPR132	Not significant
GPR137	Not significant
GPR137B	Not significant
GPR146	Not significant
GPR155	Not significant
GPR160	Not significant
GPR171	Not significant
GPR174	Not significant
GPR18	Not significant
GPR183	B/T early up
GPR63	Not significant
GPR65	Global up
GPR68	Not significant
GPR89A	Not significant
GPRASP1	Not significant
GPRASP2	Not significant
GPRIN3	Not significant
GPS1	Not significant
GPS2	Not significant
GPSM3	Not significant
GPX4	Not significant
GRAMD1A	Not significant
GRAMD1B	Not significant
GRAMD4	B down
GRAP	B down
GRAP2	Not significant
GRASP	Not significant

GRB2	B down
GRHPR	Not significant
GRINA	Mono late up
GRIPAP1	Not significant
GRK2	Global down
GRK5	Not significant
GRK6	Not significant
GRN	Mono early down
GRPEL2	Not significant
GRSF1	Not significant
GRWD1	Not significant
GSDMD	Global up
GSE1	Mono early down
GSK3A	Not significant
GSK3B	Not significant
GSKIP	Not significant
GSN	Not significant
GSPT1	Not significant
GSPT2	Not significant
GSR	Not significant
GSTK1	NK mid up
GSTM2	Not significant
GSTM5	Not significant
GSTP1	Not significant
GSTZ1	Not significant
GTF2A1	Not significant
GTF2A2	Not significant
GTF2B	Mono late down
GTF2E2	Not significant
GTF2F1	Not significant
GTF2F2	Not significant
GTF2H1	Not significant
GTF2H3	Not significant
GTF2H5	Not significant
GTF2I	Global down
GTF3A	B/T early up
GTF3C1	Not significant
GTF3C3	Not significant
GTF3C4	Not significant
GTF3C5	Not significant
GTPBP1	Not significant
GTPBP10	Not significant
GTPBP4	Not significant
GTPBP8	Not significant
GUF1	Not significant

GUK1	Not significant
GYG1	Not significant
GZF1	Not significant
GZMB	Lymph late up
GZMH	Not significant
GZMK	Not significant
H1FX	Not significant
H2AFJ	Mono late up
H2AFV	Mono early up
H2AFX	Not significant
H2AFY	Not significant
H2AFZ	NK mid up
HABP4	Not significant
HACD3	Not significant
HACD4	Not significant
HACE1	Not significant
HACL1	Not significant
HADH	Not significant
HADHA	Not significant
HADHB	Not significant
HAGH	Not significant
HARS	Mono late up
HARS2	Not significant
HAT1	Not significant
HAUS1	Not significant
HAUS2	Not significant
HAUS3	Not significant
HAUS6	Not significant
HAUS7	Not significant
HAUS8	Not significant
HAX1	Not significant
HBA1	Not significant
HBP1	Not significant
HBS1L	Not significant
HCFC1	Not significant
HCLS1	Global down
HCST	Not significant
HDAC2	Not significant
HDAC3	Not significant
HDAC4	Not significant
HDAC5	Not significant
HDAC6	Not significant
HDAC7	Not significant
HDDC2	Not significant
HDDC3	Not significant

HDGF	Global down
HDGFL2	Not significant
HDHD5	Not significant
HDLBP	Not significant
HEATR1	Not significant
HEATR3	Not significant
HEATR5A	Not significant
HEATR5B	Not significant
HEATR6	Not significant
HEBP1	Not significant
HEBP2	Mono late down
HECA	Not significant
HECTD1	Not significant
HECTD3	Not significant
HECTD4	Not significant
HELB	Not significant
HELLS	Not significant
HELQ	Not significant
HELZ	Not significant
HELZ2	Global up
HEMK1	Not significant
HERC1	Mono early down
HERC2	Not significant
HERC3	Not significant
HERC4	Not significant
HERC5	Global up
HERC6	Global up
HERPUD1	Mono late down
HERPUD2	B/T early up
HEXA	Not significant
HEXB	Mono late down
HEXDC	Not significant
HEXIM1	Not significant
HGS	Not significant
HGSNAT	Not significant
HIBCH	Not significant
HIF1A	Global up
HIKESHI	Not significant
HINFP	Not significant
HINT1	Global late down
HINT2	Not significant
HIP1R	B down
HIPK1	Not significant
HIPK2	Not significant
HIPK3	Not significant

HIRA	Not significant
HIST1H1D	Not significant
HIST1H2AC	Not significant
HIST1H2BD	Mono late up
HIST2H2AA4	Mono early up
HIVEP1	Not significant
HIVEP2	Global down
HIVEP3	Not significant
HK1	Mono early up
HLTF	Not significant
HM13	Not significant
HMBOX1	Not significant
HMBS	Not significant
HMCEs	B down
HMG20A	Not significant
HMG20B	Not significant
HMGB1	Not significant
HMGB3	Not significant
HMGCL	Not significant
HMGCR	Not significant
HMGN1	Global up
HMGN3	Not significant
HMGN4	Not significant
HMGN5	Not significant
HMGXB3	Not significant
HMGXB4	Not significant
HMOX2	Global late down
HNRNPA0	Not significant
HNRNPA1	Lymph late up
HNRNPA2B1	Not significant
HNRNPA3	Lymph late up
HNRNPAB	Mono late down
HNRNPC	Global up
HNRNPDL	B/T early up
HNRNPF	Mono early up
HNRNPH1	Mono early down
HNRNPH2	Not significant
HNRNPH3	Not significant
HNRNPK	Not significant
HNRNPL	Mono late down
HNRNPLL	Not significant
HNRNPM	Global down
HNRNPR	Not significant
HNRNPU	Lymph late up
HNRNPUL1	Not significant

HOOK1	Not significant
HOOK3	Global up
HOPX	Global late down
HP1BP3	Global down
HPCAL1	Not significant
HPCAL4	Not significant
HPRT1	Not significant
HPS1	Not significant
HPS4	Not significant
HPS5	Mono late down
HPSE	Not significant
HRAS	Not significant
HS2ST1	Not significant
HSBP1	Not significant
HSBP1L1	Not significant
HSCB	Not significant
HSD17B10	Not significant
HSD17B11	Not significant
HSD17B4	Not significant
HSD17B7	Not significant
HSD17B8	Not significant
HSD3B7	Not significant
HSDL2	Not significant
HSF1	Not significant
HSF2	Not significant
HSP90AB1	Global down
HSP90B1	Mono early up
HSPA13	Not significant
HSPA14	Not significant
HSPA4	Not significant
HSPA5	B/T early up
HSPA8	B down
HSPA9	Not significant
HSPBAP1	Not significant
HSPBP1	Not significant
HSPD1	Lymph late up
HSPH1	Mono early down
HTATSF1	Not significant
HTRA2	Not significant
HTT	Not significant
HUWE1	Mono early down
HYI	Not significant
HYOU1	Not significant
HYPK	Not significant
IAH1	Not significant

IARS	Not significant
IARS2	Not significant
IBTK	Not significant
ICAM2	Not significant
ICAM3	Mono late down
ICE1	Mono early down
ICE2	Not significant
ICK	Not significant
ICMT	Not significant
ICOS	B/T early up
ID2	B/T early up
ID3	Not significant
IDE	Not significant
IDH1	Not significant
IDH2	NK mid up
IDH3A	Not significant
IDH3B	Not significant
IDH3G	Not significant
IDNK	Not significant
IER2	Not significant
IFFO1	Mono early down
IFI16	Global up
IFI27	Global up
IFI27L2	Mono early up
IFI30	B down
IFI35	Global up
IFI44	Global up
IFI44L	Mono late up
IFI6	Global up
IFIH1	Global up
IFIT1	Mono late up
IFIT2	Mono late up
IFIT3	Global up
IFIT5	Not significant
IFNAR1	Not significant
IFNAR2	Not significant
IFNG	Not significant
IFNGR1	Not significant
IFRD1	Not significant
IFRD2	Not significant
IFT172	Not significant
IFT43	Not significant
IFT46	Not significant
IFT57	Not significant
IFT74	Not significant

IFT80	Not significant
IFT88	Not significant
IGBP1	Not significant
IGF1R	Not significant
IGF2R	Not significant
IGFLR1	Not significant
IGHM	Lymph late up
IGKC	Lymph late up
IK	Not significant
IKBKE	Not significant
IKBKG	Not significant
IKZF1	Not significant
IKZF3	Not significant
IKZF4	Not significant
IKZF5	Not significant
IL10RA	Mono late down
IL11RA	Not significant
IL15	Not significant
IL16	Global down
IL17RA	Not significant
IL18R1	Not significant
IL21R	Not significant
IL23A	Not significant
IL27RA	B down
IL2RA	Not significant
IL2RB	Global late down
IL2RG	Not significant
IL4R	Not significant
IL6R	Not significant
IL6ST	Not significant
IL7R	B/T early up
ILF2	Not significant
ILF3	Mono early down
ILK	Not significant
ILKAP	Not significant
ILVBL	Not significant
IMMP1L	Not significant
IMMT	Not significant
IMP4	Not significant
IMPA1	Not significant
IMPACT	Not significant
IMPAD1	Not significant
IMPDH2	Not significant
ING1	Not significant
ING2	Not significant

ING3	Not significant
ING4	Not significant
ING5	Not significant
INO80	Not significant
INO80C	Not significant
INO80E	Not significant
INPP4A	Not significant
INPP4B	Not significant
INPP5D	Not significant
INPP5F	Not significant
INPP5K	Not significant
INPPL1	B down
INSIG1	Mono late down
INSIG2	Not significant
INTS1	Not significant
INTS10	Not significant
INTS11	Not significant
INTS12	Not significant
INTS13	Not significant
INTS2	Not significant
INTS3	Not significant
INTS4	Not significant
INTS6	Not significant
INTS6L	Global late down
INTS7	Not significant
INTS8	Not significant
INTS9	Not significant
INVS	Not significant
IP6K1	Not significant
IP6K2	Not significant
IPCEF1	B/T early up
IPO11	Not significant
IPO4	Not significant
IPO5	Not significant
IPO7	Not significant
IPO8	Not significant
IPO9	Not significant
IQCB1	Not significant
IQCC	Not significant
IQCE	Not significant
IQGAP1	Global late down
IQGAP2	B down
IQSEC1	B down
IRAK1	Not significant
IRAK1BP1	Not significant

IRAK2	Not significant
IRAK4	Not significant
IRF1	NK mid up
IRF2	Not significant
IRF2BPL	Not significant
IRF3	Not significant
IRF4	Not significant
IRF7	Global up
IRF9	Global up
IRS1	Not significant
ISCA1	B/T early up
ISCU	Not significant
ISG15	Global up
ISG20	Global up
ISG20L2	Not significant
ISOC1	Not significant
IST1	Not significant
ITCH	Not significant
ITFG1	Not significant
ITFG2	Not significant
ITGA1	Not significant
ITGA4	Global late down
ITGA5	Not significant
ITGA6	B/T early up
ITGAE	Not significant
ITGAL	NK mid up
ITGB1	Global down
ITGB1BP1	Not significant
ITGB2	B down
ITGB7	NK mid up
ITK	B/T early up
ITM2A	B/T early up
ITM2B	B/T early up
ITM2C	Not significant
ITPA	Not significant
ITPK1	NK mid up
ITPKC	Not significant
ITPR1	Not significant
ITPR2	B down
ITPR3	Not significant
ITPRIPL1	Not significant
ITSN1	Not significant
IVD	Not significant
IVNS1ABP	Global late down
IWS1	Not significant

JADE1	Not significant
JADE2	B down
JAGN1	Not significant
JAK1	Global late down
JAK2	B/T early up
JAK3	Not significant
JAKMIP1	Not significant
JAKMIP2	Not significant
JAML	Mono late down
JARID2	Mono early down
JKAMP	Not significant
JMJD1C	Mono late down
JMJD6	Not significant
JMY	B/T early up
JOSD1	Not significant
JPT1	Not significant
JRK	Not significant
JRKL	Not significant
JTB	Not significant
JUNB	Not significant
JUND	Not significant
KANSL1	Not significant
KANSL1L	Not significant
KANSL2	Not significant
KAT14	Not significant
KAT2B	Not significant
KAT5	Not significant
KAT6A	Not significant
KAT6B	Mono early down
KAT7	Not significant
KAT8	Not significant
KATNA1	Not significant
KATNBL1	Not significant
KBTBD2	Not significant
KBTBD3	Not significant
KBTBD7	Not significant
KCMF1	Not significant
KCNA3	Mono late down
KCNAB2	Not significant
KCNMB4	Not significant
KCNN4	Not significant
KCNQ5	Not significant
KCTD10	Not significant
KCTD17	Not significant
KCTD2	Not significant

KCTD20	Not significant
KCTD5	Not significant
KCTD6	Not significant
KCTD9	Not significant
KDELR1	Not significant
KDELR2	Not significant
KDM1A	Mono late down
KDM1B	Not significant
KDM2A	Not significant
KDM2B	Not significant
KDM3A	Not significant
KDM3B	Not significant
KDM4A	Not significant
KDM4B	B down
KDM4C	Not significant
KDM5A	Mono early down
KDM5B	Not significant
KDM5C	Not significant
KDM5D	Not significant
KDM6A	Not significant
KDM7A	Not significant
KDSR	Not significant
KEAP1	Not significant
KHDC4	Not significant
KHDRBS1	Not significant
KHK	Not significant
KHNYN	Not significant
KHSRP	Not significant
KIAA0040	Global down
KIAA0100	Not significant
KIAA0232	Mono early down
KIAA0319L	Not significant
KIAA0355	Not significant
KIAA0408	Not significant
KIAA0556	Not significant
KIAA0586	Not significant
KIAA0753	Not significant
KIAA0930	Not significant
KIAA1143	Not significant
KIAA1191	Not significant
KIAA1324	Not significant
KIAA1328	Not significant
KIAA1468	Not significant
KIAA1549	Not significant
KIAA1586	Not significant

KIAA2013	Not significant
KIDINS220	Not significant
KIF16B	Mono early down
KIF1BP	Not significant
KIF1C	Not significant
KIF20B	Not significant
KIF21B	Not significant
KIF22	Not significant
KIF27	Not significant
KIF2A	Not significant
KIF3A	Not significant
KIF3B	Not significant
KIF3C	Not significant
KIF5B	Not significant
KIFAP3	Not significant
KIN	Not significant
KIZ	Not significant
KLC1	Global down
KLC2	Not significant
KLC4	Not significant
KLF10	B/T early up
KLF11	Not significant
KLF12	Not significant
KLF2	Not significant
KLF3	Global down
KLF4	Mono late down
KLF6	Global late down
KLF8	Not significant
KLHDC1	Not significant
KLHDC2	Not significant
KLHDC4	Not significant
KLHDC8B	Not significant
KLHL12	Not significant
KLHL15	Not significant
KLHL18	Not significant
KLHL2	Not significant
KLHL24	Not significant
KLHL28	Not significant
KLHL3	Not significant
KLHL36	Not significant
KLHL5	Not significant
KLHL6	Not significant
KLHL7	Not significant
KLHL8	Not significant
KLHL9	Not significant

KLRB1	Global late down
KMT2B	Not significant
KMT2D	Not significant
KMT2E	Mono early down
KMT5A	Not significant
KMT5B	Not significant
KNL1	Not significant
KNOP1	Not significant
KPNA1	Not significant
KPNA2	Not significant
KPNA3	Not significant
KPNA4	Not significant
KPNA5	Not significant
KPNA6	Not significant
KPNB1	NK mid up
KPTN	Not significant
KRAS	Not significant
KRBOX4	Not significant
KRCC1	Not significant
KRI1	Not significant
KRIT1	Not significant
KRR1	Lymph late up
KRT10	Mono late down
KRTCAP2	Mono late down
KTN1	Not significant
KYAT3	Not significant
L3MBTL1	Not significant
L3MBTL2	Not significant
L3MBTL3	Mono early down
LACTB	Mono late up
LAIR1	Global late down
LAMP1	Not significant
LAMP2	Not significant
LAMTOR1	Not significant
LAMTOR2	Not significant
LAMTOR3	Not significant
LAMTOR4	Mono late down
LAMTOR5	Not significant
LANCL2	Not significant
LAP3	Mono late up
LAPTM4A	Not significant
LAPTM4B	Not significant
LAPTM5	Global late down
LARP1B	Not significant
LARP4	Not significant

LARP7	Not significant
LARS	Not significant
LAS1L	Not significant
LASP1	Global down
LAT	Not significant
LATS1	Not significant
LAX1	B/T early up
LBH	Not significant
LBR	Not significant
LCK	Global down
LCLAT1	Not significant
LCMT1	Not significant
LCOR	Not significant
LCORL	Not significant
LCP1	B down
LCP2	Not significant
LDB1	Not significant
LDHA	NK mid up
LDHB	Not significant
LDLR	Not significant
LDLRAD4	Not significant
LDOC1	Not significant
LEF1	Global late down
LEMD2	Not significant
LEMD3	Not significant
LENG1	Not significant
LENG8	Not significant
LEO1	Not significant
LEPROTL1	Not significant
LETM1	Not significant
LFNG	Not significant
LGALS1	Mono late up
LGALS3	Mono late down
LGALS3BP	Global up
LGALS8	Global up
LGMN	Mono late down
LIG1	Not significant
LIG3	Not significant
LIG4	Not significant
LIMA1	Not significant
LIMD2	B down
LIMK2	Mono late up
LIMS1	Mono early up
LIN54	Not significant
LIN7B	Not significant

LINS1	Not significant
LIPA	Mono late down
LIPT1	Not significant
LIX1L	Not significant
LLGL1	Not significant
LLGL2	Not significant
LMAN1	Not significant
LMAN2	Mono late up
LMBR1	Not significant
LMBR1L	Global down
LMBRD1	Not significant
LMBRD2	Not significant
LMNA	B down
LMNB1	Not significant
LMNB2	Not significant
LMTK2	Not significant
LNPEP	Not significant
LNPK	Not significant
LONP1	Not significant
LONP2	Not significant
LPAR2	Not significant
LPAR6	Not significant
LPCAT1	Not significant
LPCAT4	Not significant
LPGAT1	Not significant
LPIN2	Not significant
LPL	Not significant
LPXN	Not significant
LRCH1	Not significant
LRCH3	Not significant
LRCH4	Global down
LRIF1	Not significant
LRIG1	Not significant
LRMP	Mono late down
LRP10	Not significant
LRPAP1	Not significant
LRPPRC	Not significant
LRRC1	Not significant
LRRC28	Not significant
LRRC41	Not significant
LRRC47	Not significant
LRRC57	Not significant
LRRC59	Not significant
LRRC6	Not significant
LRRC8A	Not significant

LRRC8B	Mono late down
LRRC8C	Not significant
LRRC8D	Not significant
LRRCC1	Not significant
LRRFIP1	Global down
LRRFIP2	Not significant
LRSAM1	Not significant
LRWD1	Not significant
LSG1	Not significant
LSM10	B down
LSM12	Not significant
LSM14A	Global late down
LSM14B	Not significant
LSM2	Not significant
LSM3	Not significant
LSM4	Global late down
LSM7	Not significant
LSM8	Not significant
LSP1	Mono late down
LSR	Not significant
LST1	Not significant
LTA	Not significant
LTA4H	Mono late down
LTB	Global down
LTBP3	Not significant
LTBP4	Not significant
LTN1	Not significant
LUC7L	Global down
LUZP1	Not significant
LY9	Not significant
LY96	Not significant
LYAR	Not significant
LYNX1	Not significant
LYPLA1	Not significant
LYPLA2	Not significant
LYPLAL1	Not significant
LYRM1	Not significant
LYSMD3	Not significant
LYSMD4	Not significant
LYST	Mono late down
LYZ	Mono early up
LZIC	Not significant
LZTFL1	Not significant
LZTS2	Not significant
M6PR	Not significant

MACO1	Not significant
MAD1L1	Not significant
MAD2L1BP	Not significant
MAD2L2	Not significant
MADD	Global down
MAEA	Not significant
MAF	Not significant
MAF1	Global down
MAFF	Not significant
MAFG	Not significant
MAGED1	Not significant
MAGED2	Not significant
MAGEH1	Not significant
MAGI3	Not significant
MAGOH	Not significant
MAGOHB	Not significant
MAIP1	Not significant
MAK16	Not significant
MALSU1	Not significant
MALT1	Not significant
MAML1	Not significant
MAML2	Not significant
MAML3	Not significant
MAMU-A	Global up
MAMU-A3	Global up
MAMU-AG	Not significant
MAMU-B	Lymph late up
MAMU-B18	Global up
MAMU-DPA	Mono late down
MAMU-DPB	Mono late down
MAMU-DRA	Mono late down
MAMU-E	Global late down
MAMU-F	B/T early up
MAMU-I	Global up
MAN1A1	Not significant
MAN1B1	Not significant
MAN1C1	Not significant
MAN2A1	Not significant
MAN2A2	Not significant
MAN2B2	Not significant
MAN2C1	Not significant
MANBAL	Not significant
MANEA	Not significant
MANF	Not significant
MANSC1	Not significant

MAP10	Not significant
MAP1LC3B	Not significant
MAP2K1	Not significant
MAP2K2	Global down
MAP2K3	Not significant
MAP2K4	Not significant
MAP2K5	Not significant
MAP2K6	Not significant
MAP2K7	Not significant
MAP3K1	Not significant
MAP3K12	Not significant
MAP3K14	Not significant
MAP3K2	Not significant
MAP3K21	Not significant
MAP3K3	Not significant
MAP3K4	Not significant
MAP3K5	Not significant
MAP3K7	Not significant
MAP3K8	NK mid up
MAP4	Not significant
MAP4K1	Not significant
MAP4K2	Mono late down
MAP4K3	Not significant
MAP4K4	Global down
MAP4K5	Not significant
MAP7D1	Not significant
MAP7D3	Not significant
MAP9	Not significant
MAPK1	Not significant
MAPK14	Not significant
MAPK1IP1L	Not significant
MAPK3	Not significant
MAPK8IP3	Not significant
MAPK9	Not significant
MAPKAP1	Not significant
MAPKAPK2	Not significant
MAPKAPK3	Not significant
MAPKAPK5	Not significant
MAPKBP1	Not significant
MAPRE1	Not significant
MAPRE2	Global late down
MAPT	Not significant
02-mar	Not significant
05-mar	Not significant
06-mar	Not significant

07-mar Not significant
08-mar Mono early down

MARCKSL1	Not significant
MARF1	Not significant
MARK2	Not significant
MARK3	Not significant
MARK4	Not significant
MARS	Not significant
MAST2	Not significant
MAST4	Not significant
MASTL	Not significant
MAT2A	Not significant
MAT2B	Not significant
MATK	Not significant
MATR3	Lymph late up
MAU2	Not significant
MAVS	Not significant
MAX	Not significant
MAZ	Not significant
MBD1	Not significant
MBD2	Mono late down
MBD3	Not significant
MBD4	Not significant
MBD6	Not significant
MBIP	Not significant
MBNL1	Global late down
MBNL3	Not significant
MBOAT1	Not significant
MBP	Not significant
MBTD1	Not significant
MBTPS1	Mono late down
MCCC1	Not significant
MCCC2	Not significant
MCF2L	Not significant
MCFD2	Not significant
MCL1	Not significant
MCM3	Not significant
MCM3AP	Not significant
MCM4	Not significant
MCM6	Not significant
MCM7	Not significant
MCMBP	Not significant
MCOLN2	Not significant
MCPH1	Not significant
MCRS1	Not significant

MCTP2	Not significant
MCTS1	Not significant
MCU	Not significant
MCUR1	Not significant
MDC1	Not significant
MDFIC	Not significant
MDH1	Not significant
MDH2	Not significant
MDM1	Not significant
MDM2	Not significant
MDM4	Not significant
MDN1	Not significant
ME2	NK mid up
MEA1	Not significant
MEAF6	Not significant
MECP2	Not significant
MED1	Not significant
MED10	Not significant
MED12	Not significant
MED13	Not significant
MED13L	Mono late down
MED14	Not significant
MED15	Not significant
MED17	Not significant
MED19	Not significant
MED21	Not significant
MED22	Not significant
MED23	Not significant
MED25	Not significant
MED27	Not significant
MED28	Not significant
MED29	Not significant
MED30	Not significant
MED31	Not significant
MED4	Not significant
MED6	Not significant
MED8	Not significant
MEF2A	Not significant
MEF2D	Not significant
MEMO1	Not significant
MEPCE	Not significant
MESD	Not significant
METAP1	Not significant
METAP1D	Not significant
METAP2	Not significant

METTL13	Not significant
METTL14	Not significant
METTL16	Not significant
METTL17	Not significant
METTL18	Not significant
METTL21A	Not significant
METTL22	Not significant
METTL23	Not significant
METTL25	Not significant
METTL26	Not significant
METTL4	Not significant
METTL5	Not significant
METTL7A	Not significant
METTL9	NK mid up
MEX3C	Not significant
MFAP1	Not significant
MFAP3	Not significant
MFF	Not significant
MFHAS1	Not significant
MFN1	Not significant
MFNG	Global down
MFSD1	Mono late up
MFSD10	Not significant
MFSD11	Not significant
MFSD14A	Not significant
MFSD14B	Not significant
MFSD5	Not significant
MFSD6	Not significant
MFSD9	Not significant
MGAT1	B down
MGAT4A	Not significant
MGAT4B	Not significant
MGLL	Not significant
MGMT	Not significant
MGST3	Mono late down
MIA3	Not significant
MIB2	Not significant
MICAL1	Not significant
MICU1	Not significant
MICU2	Not significant
MID1IP1	Not significant
MID2	Not significant
MIEF1	Not significant
MIEF2	Not significant
MIER1	B/T early up

MIER3	Not significant
MIF	Not significant
MIGA1	Not significant
MIGA2	Not significant
MIIP	Not significant
MINDY1	Not significant
MINDY2	Not significant
MINDY3	Not significant
MINK1	Not significant
MINOS1	Not significant
MIOS	Not significant
MIPEP	Not significant
MIS12	Not significant
MIS18A	Not significant
MIS18BP1	Not significant
MITD1	Not significant
MKI67	Mono late up
MKKS	Not significant
MKL1	Not significant
MKL2	Not significant
MKLN1	Not significant
MKNK1	Not significant
MKNK2	B down
MKRN1	Not significant
MKRN2	Not significant
MLEC	Not significant
MLF2	Not significant
MLH3	Not significant
MLLT1	Not significant
MLLT10	Not significant
MLLT11	Not significant
MLLT3	Not significant
MLLT6	Not significant
MLST8	Not significant
MLX	Not significant
MLXIP	Not significant
MMAB	Not significant
MMADHC	Not significant
MMD	Not significant
MMP24OS	Not significant
MMP25	Mono late up
MMS19	Not significant
MNAT1	Not significant
MOAP1	Not significant
MOB1A	Not significant

MOB2	Not significant
MOB4	Not significant
MON2	Not significant
MORC2	Not significant
MORC3	Not significant
MORF4L1	Mono early down
MORF4L2	Not significant
MOSPD2	Not significant
MOSPD3	Not significant
MPG	Not significant
MPHOSPH10	Not significant
MPHOSPH6	Not significant
MPHOSPH8	Not significant
MPHOSPH9	Not significant
MPLKIP	Not significant
MPP1	Mono late up
MPP7	Not significant
MPST	Not significant
MPV17	Not significant
MPZ	Not significant
MPZL1	Mono late up
MRE11	Not significant
MRFAP1	Global up
MRFAP1L1	Not significant
MRGBP	Not significant
MROH1	Not significant
MRPL1	Not significant
MRPL10	Not significant
MRPL11	Mono early up
MRPL13	Not significant
MRPL15	Not significant
MRPL16	Not significant
MRPL17	Not significant
MRPL20	Not significant
MRPL21	Not significant
MRPL22	Not significant
MRPL23	Not significant
MRPL24	Not significant
MRPL28	Not significant
MRPL3	Not significant
MRPL30	Not significant
MRPL36	Not significant
MRPL37	Not significant
MRPL38	Not significant
MRPL4	Not significant

MRPL41	Not significant
MRPL44	Not significant
MRPL46	Not significant
MRPL47	Not significant
MRPL48	Not significant
MRPL51	Mono late up
MRPL52	Not significant
MRPL55	Not significant
MRPL57	Not significant
MRPL58	Not significant
MRPL9	Not significant
MRPS11	Not significant
MRPS14	Not significant
MRPS16	Not significant
MRPS17	Not significant
MRPS18A	Not significant
MRPS18B	Not significant
MRPS18C	Not significant
MRPS21	Not significant
MRPS22	Not significant
MRPS23	Not significant
MRPS25	Not significant
MRPS27	Not significant
MRPS30	Not significant
MRPS31	Not significant
MRPS33	Not significant
MRPS34	Not significant
MRPS35	Not significant
MRPS36	Not significant
MRPS6	Not significant
MRPS7	Not significant
MRPS9	Not significant
MRT04	Not significant
MS4A1	B down
MSANTD2	Not significant
MSANTD4	Not significant
MSH2	Not significant
MSH3	Not significant
MSH6	Not significant
MSI2	Not significant
MSL1	Not significant
MSL2	Not significant
MSL3	Not significant
MSMO1	Not significant
MTA1	Not significant

MTA2	Not significant
MTA3	Not significant
MTAP	Not significant
MTCH1	NK mid up
MTCH2	Mono late up
MTCP1	Not significant
MTDH	Mono early down
MTERF1	Not significant
MTERF2	Not significant
MTERF3	Not significant
MTERF4	Not significant
MTF1	Not significant
MTF2	Not significant
MTFR1L	Not significant
MTFR2	Not significant
MTG2	Not significant
MTHFD1	Not significant
MTHFD1L	Not significant
MTHFD2	Not significant
MTHFS	Mono late up
MTHFSD	Not significant
MTIF2	Lymph late up
MTIF3	Not significant
MTM1	Not significant
MTMR1	Not significant
MTMR10	Not significant
MTMR12	Not significant
MTMR3	Not significant
MTMR4	Not significant
MTMR6	Not significant
MTO1	Not significant
MTOR	Not significant
MTPAP	Not significant
MTPN	Global late down
MTR	Not significant
MTREX	Not significant
MTRR	Not significant
MTSS1	Mono early down
MTX1	Not significant
MTX2	Not significant
MUL1	Not significant
MUM1	Not significant
MUS81	Not significant
MUT	Not significant
MUTYH	Not significant

MVB12A	Not significant
MVP	Mono late up
MX1	Global up
MX2	Global up
MXD4	Not significant
MXI1	Not significant
MXRA7	Not significant
MYADM	Global late down
MYB	Not significant
MYBBP1A	Not significant
MYC	Not significant
MYD88	Mono early up
MYDGF	Not significant
MYH9	Global down
MYL12A	NK mid up
MYL12B	Mono early up
MYL6	Global down
MYL6B	Not significant
MYLIP	Global late down
MYNN	Not significant
MYO18A	Not significant
MYO19	Not significant
MYO1F	Global down
MYO1G	Not significant
MYO5A	Global down
MYO6	Not significant
MYO9A	Not significant
MYO9B	Global down
MYSM1	Not significant
MZT2B	Not significant
N4BP1	Global up
N4BP2	Not significant
N4BP2L1	Not significant
N4BP2L2	Not significant
NAA10	Not significant
NAA15	Not significant
NAA16	Not significant
NAA20	Not significant
NAA25	Not significant
NAA30	Not significant
NAA35	Not significant
NAA38	Not significant
NAA50	Not significant
NAA60	Not significant
NAAA	Mono late down

NAB1	Not significant
NACA2	Not significant
NADK	Mono late up
NADK2	Not significant
NADSYN1	Not significant
NAE1	Not significant
NAF1	Not significant
NAGK	Mono early up
NAGLU	Not significant
NAIF1	Not significant
NAMPT	Mono late down
NANS	Not significant
NAP1L4	Not significant
NAPA	Mono late up
NAPB	Not significant
NARF	Not significant
NARFL	Not significant
NARS	Not significant
NARS2	Not significant
NAT10	Not significant
NAT9	Not significant
NAXE	Not significant
NBAS	Not significant
NBEA	Not significant
NBEAL1	Not significant
NBEAL2	Not significant
NBN	Mono late up
NBR1	Not significant
NCALD	Not significant
NCAPD2	Not significant
NCAPD3	Not significant
NCAPG2	Not significant
NCAPH2	Not significant
NCBP1	Not significant
NCBP2	Mono late up
NCBP3	Not significant
NCF2	Not significant
NCF4	Mono late up
NCK2	Not significant
NCKAP1L	B down
NCL	Lymph late up
NCLN	Not significant
NCOA1	Mono early down
NCOA2	Not significant
NCOA3	Mono early down

NCOA4	Not significant
NCOA5	Not significant
NCOA6	Not significant
NCOA7	Mono late up
NCOR2	Not significant
NCSTN	Not significant
NDC1	Not significant
NDC80	Not significant
NDEL1	Not significant
NDFIP1	Not significant
NDFIP2	Not significant
NDRG1	Not significant
NDRG2	Mono late down
NDRG3	Not significant
NDST2	Not significant
NDUFA10	Not significant
NDUFA11	Mono late down
NDUFA12	Not significant
NDUFA4	Not significant
NDUFA8	Not significant
NDUFAB1	Not significant
NDUFAF1	Not significant
NDUFAF2	Not significant
NDUFAF3	Not significant
NDUFAF4	Not significant
NDUFAF5	Not significant
NDUFAF7	Not significant
NDUFAF8	Not significant
NDUFB1	Not significant
NDUFB10	B/T early up
NDUFB2	Not significant
NDUFB4	Not significant
NDUFB5	Not significant
NDUFB6	Mono late down
NDUFB8	Not significant
NDUFB9	Mono late up
NDUFC2	Mono late up
NDUFS1	Not significant
NDUFS2	Not significant
NDUFS3	Not significant
NDUFS4	Not significant
NDUFS6	Not significant
NDUFS7	Not significant
NDUFS8	Not significant
NDUFV1	Not significant

NDUFV3	Not significant
NECAP2	Not significant
NEDD1	Not significant
NEDD4	Not significant
NEDD4L	Not significant
NEDD8	B down
NEDD9	Not significant
NEIL1	Not significant
NEIL2	Not significant
NEK1	Not significant
NEK3	Not significant
NEK4	Not significant
NEK6	Not significant
NEK7	Global late down
NEK8	Not significant
NEK9	Not significant
NELFA	Not significant
NELFB	Not significant
NELFCD	Not significant
NELFE	Not significant
NEMF	Mono early down
NENF	Not significant
NEPRO	Not significant
NET1	Not significant
NEU3	Not significant
NEURL4	Not significant
NF1	Not significant
NF2	Not significant
NFAT5	Not significant
NFATC2	Not significant
NFATC2IP	Not significant
NFATC3	Not significant
NFE2L1	Not significant
NFE2L2	Not significant
NFIC	Not significant
NFIL3	Mono early up
NFIX	Not significant
NFKB1	B down
NFKB2	Not significant
NFKBIA	Global up
NFKBIB	Not significant
NFKBIE	Global up
NFKBIL1	Not significant
NFKBIZ	Mono late down
NFRKB	Not significant

NFS1	Not significant
NFX1	Not significant
NFYA	Not significant
NFYB	Not significant
NFYC	Not significant
NGDN	Not significant
NGLY1	Not significant
NGRN	Not significant
NHLRC2	Not significant
NHLRC3	Not significant
NICN1	Not significant
NIFK	Not significant
NIN	Mono early down
NINJ1	Not significant
NIPA2	Not significant
NIPAL3	Not significant
NIPBL	Mono early down
NIPSNAP2	Not significant
NIPSNAP3A	Not significant
NISCH	Not significant
NIT2	Not significant
NKAP	Not significant
NKAPD1	Not significant
NKG2D	Not significant
NKIRAS2	Not significant
NKRF	Not significant
NLE1	Not significant
NLN	Not significant
NLRC5	Not significant
NLRX1	Not significant
NMD3	Not significant
NME2	Global late down
NME4	Not significant
NME6	Not significant
NMI	Global up
NMNAT1	Not significant
NMRAL1	Not significant
NMT1	Not significant
NNT	Not significant
NOA1	Not significant
NOB1	Not significant
NOC2L	Not significant
NOC3L	Not significant
NOC4L	Not significant
NOL10	Not significant

NOL11	Not significant
NOL12	Not significant
NOL4L	Not significant
NOL6	Not significant
NOL7	Not significant
NOL8	Not significant
NOL9	Not significant
NOLC1	Not significant
NONO	Not significant
NOP14	Not significant
NOP16	Not significant
NOP2	Not significant
NOP53	Global down
NOP56	Not significant
NOP58	Not significant
NOP9	Not significant
NOSIP	Not significant
NOTCH1	Not significant
NOTCH2	Not significant
NOXA1	Not significant
NPAT	Not significant
NPC1	Not significant
NPEPL1	Not significant
NPEPPS	Not significant
NPHP3	Not significant
NPLOC4	Not significant
NPM3	Not significant
NPRL2	Not significant
NPTN	Not significant
NR1D1	Not significant
NR1D2	Not significant
NR1H2	Not significant
NR2C1	Not significant
NR2C2	Not significant
NR3C1	Global down
NR4A1	Mono late down
NR4A2	B/T early up
NR4A3	Not significant
NRAS	Not significant
NRBF2	Not significant
NRBP1	Not significant
NRDC	Not significant
NRDE2	Not significant
NRF1	Not significant
NRIP1	Not significant

NRN1	Not significant
NRROS	Not significant
NSA2	Mono late down
NSD1	Lymph late up
NSD2	Not significant
NSD3	Mono early down
NSDHL	Not significant
NSF	Not significant
NSFL1C	Not significant
NSG1	Not significant
NSL1	Not significant
NSMCE4A	Not significant
NSMF	Not significant
NSRP1	Not significant
NSUN2	Not significant
NSUN3	Not significant
NSUN4	Not significant
NSUN5	Not significant
NT5C	Not significant
NT5C2	Global down
NT5C3A	Global up
NT5C3B	Not significant
NT5DC1	Not significant
NTHL1	Not significant
NTMT1	Not significant
NUB1	NK mid up
NUBP1	Not significant
NUBP2	Not significant
NUBPL	Not significant
NUCB1	Not significant
NUCB2	B/T early up
NUCKS1	Global up
NUDC	Not significant
NUDCD1	Not significant
NUDCD3	Not significant
NUDT1	Not significant
NUDT14	Not significant
NUDT16L1	Not significant
NUDT21	Not significant
NUDT22	Not significant
NUDT3	Not significant
NUDT4	Not significant
NUDT5	Not significant
NUDT9	Not significant
NUFIP1	Not significant

NUFIP2	Not significant
NUMA1	Global down
NUMB	Not significant
NUP107	Not significant
NUP133	Not significant
NUP153	Not significant
NUP155	Not significant
NUP160	Not significant
NUP188	Not significant
NUP205	Not significant
NUP210	B down
NUP210L	Not significant
NUP214	Not significant
NUP50	Not significant
NUP54	Not significant
NUP58	Not significant
NUP62	Not significant
NUP85	Not significant
NUP88	Not significant
NUP93	Not significant
NUP98	Not significant
NUPL2	Not significant
NUTF2	Not significant
NVL	Not significant
NXF1	Mono early down
NXPE3	Not significant
NXT1	Not significant
NXT2	Not significant
OARD1	Not significant
OAS1	Mono late up
OAS2	Global up
OAS3	Global up
OASL	Mono late up
OAT	Not significant
OAZ1	Mono early up
OAZ2	Not significant
OCIAD1	Not significant
ODC1	Global up
ODF2	Not significant
ODF2L	Not significant
ODR4	Not significant
OFD1	Not significant
OGDH	Not significant
OGFOD1	Not significant
OGFOD2	Not significant

OGFR	Not significant
OGT	B down
OLA1	Not significant
OMA1	Not significant
OPA1	Not significant
OPLAH	Not significant
OPTN	Mono late up
ORAI1	Not significant
ORAI3	Not significant
ORC3	Not significant
ORC4	Not significant
ORC5	Not significant
ORC6	Not significant
ORMDL1	Not significant
ORMDL2	Not significant
ORMDL3	Not significant
OS9	Not significant
OSBP	Not significant
OSBPL11	Mono late down
OSBPL1A	Not significant
OSBPL2	Not significant
OSBPL3	Not significant
OSBPL7	Not significant
OSBPL8	Not significant
OSBPL9	Not significant
OSER1	Not significant
OSGEP	Not significant
OSGIN2	Not significant
OST4	Not significant
OSTF1	Not significant
OSTM1	Not significant
OTUD4	Not significant
OTUD5	Not significant
OTUD6B	Not significant
OXA1L	B/T early up
OXCT1	Not significant
OXNAD1	Not significant
OXR1	Not significant
OXSM	Not significant
OXSRI	Not significant
P2RX7	Not significant
P2RY10	Not significant
P3H4	Not significant
P4HA1	Not significant
P4HB	Not significant

P4HTM	Not significant
PABPC1	Global late down
PABPC4	Mono late down
PACS1	Not significant
PACS2	Not significant
PACSIN2	Not significant
PAF1	Not significant
PAFAH1B1	Not significant
PAFAH1B2	Not significant
PAFAH1B3	Not significant
PAFAH2	Not significant
PAG1	Not significant
PAICS	Not significant
PAIP1	Not significant
PAIP2	Global late down
PAK1IP1	Not significant
PAK2	B down
PAK3	Not significant
PAK4	Not significant
PAM	Not significant
PAN2	Mono late down
PAN3	Not significant
PANK2	Not significant
PANK3	Not significant
PANK4	Not significant
PANX1	Not significant
PAOX	Not significant
PAPD4	Not significant
PAPD5	Not significant
PAPD7	Mono late up
PAPOLA	Global down
PAPOLG	Not significant
PAPSS1	Not significant
PARD3	Not significant
PARD6B	Not significant
PARG	Not significant
PARL	Not significant
PARN	Not significant
PARP1	B down
PARP10	Global up
PARP11	Not significant
PARP14	Global up
PARP15	Not significant
PARP16	Not significant
PARP2	Not significant

PARP3	Not significant
PARP4	Not significant
PARP6	Not significant
PARP8	Not significant
PARP9	Global up
PARVB	Not significant
PARVG	Not significant
PASK	Not significant
PATJ	Not significant
PATL1	Not significant
PATZ1	Not significant
PAXIP1	Not significant
PBDC1	Not significant
PBRM1	Mono early down
PBX2	Not significant
PBX3	Not significant
PBX4	Not significant
PCBP1	Mono early up
PCBP4	Not significant
PCCA	Not significant
PCCB	Not significant
PCDHGC5	Not significant
PCED1A	Not significant
PCED1B	Lymph late up
PCF11	Mono early down
PCGF5	Not significant
PCGF6	Not significant
PCID2	Not significant
PCIF1	Not significant
PCK2	Not significant
PCM1	Mono early down
PCMTD1	Not significant
PCMTD2	Not significant
PCNA	NK mid up
PCNX1	Not significant
PCNX2	Not significant
PCP2	Not significant
PCSK7	Not significant
PCTP	Not significant
PCYOX1	Not significant
PCYT1A	Mono early down
PCYT2	Not significant
PDAP1	Not significant
PDCD10	Not significant
PDCD11	Not significant

PDCD2	Not significant
PDCD4	Not significant
PDCD5	Mono late up
PDCD6IP	Not significant
PDCD7	Not significant
PDCL3	Not significant
PDE12	Not significant
PDE3B	Mono early down
PDE4A	Not significant
PDE4B	B/T early up
PDE4D	Not significant
PDE4DIP	Not significant
PDE6D	Not significant
PDE7A	Not significant
PDE8A	Not significant
PDF	Not significant
PDGFRA	Not significant
PDHA1	Not significant
PDHB	Not significant
PDHX	Not significant
PDIA3	NK mid up
PDIA4	Mono late up
PDIA5	Not significant
PDIA6	Mono late up
PDK1	Not significant
PDLIM1	B down
PDLIM2	Not significant
PDLIM5	Not significant
PDP1	Not significant
PDPK1	Not significant
PDPR	Not significant
PDRG1	Not significant
PDS5A	Not significant
PDS5B	Not significant
PDXDC1	Not significant
PDXK	Not significant
PDZD11	Not significant
PDZD4	Not significant
PDZRN3	Not significant
PEAK1	Not significant
PEBP1	Mono late down
PECAM1	Mono late down
PEF1	Not significant
PELO	Not significant
PELP1	Not significant

PEMT	Not significant
PEPD	Not significant
PER1	Not significant
PER2	Not significant
PER3	Not significant
PES1	Not significant
PET100	Not significant
PEX1	Not significant
PEX16	Not significant
PEX2	Not significant
PEX5	Not significant
PEX7	Not significant
PF4	Not significant
PFDN1	Not significant
PFDN2	Not significant
PFDN4	Not significant
PFDN5	Global late down
PFDN6	Not significant
PFKL	Not significant
PFN1	B down
PGAP2	Not significant
PGAP3	Not significant
PGBD1	Not significant
PGBD2	Not significant
PGBD3	Not significant
PGD	Mono late up
PGGHG	Global down
PGK1	Not significant
PGLS	Not significant
PGM1	Not significant
PGM2	Not significant
PGM2L1	Not significant
PGM3	Not significant
PGRMC2	Not significant
PHACTR2	Not significant
PHACTR4	Not significant
PHAX	Not significant
PHB	Not significant
PHB2	Not significant
PHC1	Not significant
PHC2	Not significant
PHC3	Not significant
PHF1	Not significant
PHF10	Not significant
PHF11	Global up

PHF12	Not significant
PHF14	Not significant
PHF19	Not significant
PHF2	Not significant
PHF20	Not significant
PHF20L1	Not significant
PHF21A	Not significant
PHF23	Not significant
PHF3	Mono early down
PHF6	Not significant
PHF7	Not significant
PHF8	Not significant
PHKA2	Not significant
PHKB	Not significant
PHKG2	Not significant
PHLDA1	Not significant
PHLPP2	Not significant
PHOSPHO2	Not significant
PHPT1	Not significant
PHRF1	Not significant
PHTF1	Not significant
PHTF2	Not significant
PHYH	Not significant
PI4K2A	Not significant
PI4KA	Not significant
PI4KB	Not significant
PIAS1	Not significant
PIAS2	Not significant
PIAS3	Not significant
PIAS4	Not significant
PIBF1	Not significant
PICALM	B down
PICK1	Not significant
PIEZO1	Not significant
PIGA	Not significant
PIGC	Not significant
PIGF	Not significant
PIGG	Not significant
PIGH	Not significant
PIGK	Not significant
PIGQ	Not significant
PIGS	Not significant
PIGT	Not significant
PIGV	Not significant
PIGY	B/T early up

PIH1D1	Not significant
PIK3AP1	Global up
PIK3C2A	Not significant
PIK3C2B	Not significant
PIK3C3	Not significant
PIK3CA	Not significant
PIK3CB	Not significant
PIK3CD	Mono late up
PIK3CG	Not significant
PIK3IP1	Not significant
PIK3R1	Global late down
PIK3R4	Not significant
PIK3R5	Not significant
PIKFYVE	Not significant
PIN1	Not significant
PINK1	Not significant
PIP4K2A	Global late down
PIP4K2B	Not significant
PIP4K2C	Not significant
PIP5K1A	Not significant
PITHD1	Not significant
PITPNB	Not significant
PITPNC1	Not significant
PITPNM1	B down
PITPNM2	Not significant
PITRM1	Not significant
PJA1	Not significant
PJA2	Not significant
PKN1	Not significant
PKN2	Not significant
PLA2G16	B/T early up
PLA2G4B	Not significant
PLA2G4C	Mono late up
PLA2G6	Not significant
PLAC8	Mono late up
PLAG1	Not significant
PLAGL1	Not significant
PLAGL2	Not significant
PLCL1	Not significant
PLCL2	Not significant
PLCXD1	Not significant
PLD3	Not significant
PLEC	Global down
PLEKHA1	Not significant
PLEKHA2	Not significant

PLEKHA3	Not significant
PLEKHA5	Not significant
PLEKHF2	Global late down
PLEKHG1	Not significant
PLEKHG2	Not significant
PLEKHG3	Not significant
PLEKHM2	B down
PLEKHO1	Mono early down
PLEKHO2	Not significant
PLGRKT	Not significant
PLIN2	Not significant
PLIN3	Not significant
PLK2	Not significant
PLK3	B/T early up
PLOD3	Not significant
PLP2	Not significant
PLPBP	Not significant
PLPP2	Not significant
PLPP5	Not significant
PLRG1	Not significant
PLXNA1	Not significant
PLXNA3	Not significant
PLXNC1	Not significant
PM20D2	Not significant
PMEPA1	Not significant
PML	Global up
PMM1	Not significant
PMM2	Not significant
PMPCB	Not significant
PMS1	Not significant
PMS2	Not significant
PMVK	Not significant
PNISR	Mono early down
PNKP	Not significant
PNMA1	Not significant
PNO1	Not significant
PNPLA6	Global late down
PNPLA7	Not significant
PNPLA8	Mono late down
PNPT1	Not significant
PNRC1	Global late down
PNRC2	Not significant
POC1B	Not significant
POC5	Not significant
POGK	Not significant

POGLUT1	Not significant
POGZ	Not significant
POLA1	Not significant
POLA2	Not significant
POLB	Not significant
POLD1	Not significant
POLD2	Not significant
POLD3	Not significant
POLDIP2	Not significant
POLE3	Not significant
POLE4	Not significant
POLG	Not significant
POLG2	Not significant
POLI	Not significant
POLK	Not significant
POLR1B	Not significant
POLR1C	Not significant
POLR1D	Not significant
POLR1E	Not significant
POLR2B	Not significant
POLR2D	Not significant
POLR2E	Not significant
POLR2G	Not significant
POLR2H	Not significant
POLR2I	Not significant
POLR2J	Not significant
POLR3A	Not significant
POLR3B	Not significant
POLR3C	Not significant
POLR3D	Not significant
POLR3E	Not significant
POLR3F	Not significant
POLR3G	Not significant
POLR3GL	Not significant
POLR3H	Not significant
POMGNT1	Not significant
POMGNT2	Not significant
POMK	Not significant
POMP	Not significant
POP4	Not significant
POP5	Not significant
POP7	Not significant
POR	Not significant
POT1	Not significant
POU2F1	Not significant

POU6F1	Not significant
PPA1	Mono late up
PPA2	Not significant
PPAN	Not significant
PPARA	Not significant
PPARD	Not significant
PPAT	Not significant
PPCDC	Not significant
PPFIA1	Mono early down
PPFIBP1	Not significant
PPFIBP2	Not significant
PPHLN1	Not significant
PPIA	Global up
PPIB	Mono late up
PPID	Not significant
PPIE	Not significant
PPIH	Not significant
PPIL2	Not significant
PPIL3	Not significant
PPIL4	Not significant
PPIL6	Not significant
PPIP5K2	Not significant
PPM1A	Not significant
PPM1B	Not significant
PPM1D	Not significant
PPM1G	Not significant
PPM1K	Not significant
PPM1M	Not significant
PPOX	Not significant
PPP1CB	Not significant
PPP1CC	Not significant
PPP1R10	Not significant
PPP1R12A	Mono early down
PPP1R12B	Not significant
PPP1R12C	Mono early down
PPP1R13B	Not significant
PPP1R15A	Mono late down
PPP1R15B	Not significant
PPP1R16B	Not significant
PPP1R18	Not significant
PPP1R2	Not significant
PPP1R21	Not significant
PPP1R35	Not significant
PPP1R3B	Not significant
PPP1R7	Not significant

PPP1R8	Not significant
PPP1R9B	B down
PPP2CB	Not significant
PPP2R1A	Not significant
PPP2R1B	Not significant
PPP2R2A	Mono late up
PPP2R2D	Not significant
PPP2R3C	Not significant
PPP2R5A	Not significant
PPP2R5B	Not significant
PPP2R5C	Global late down
PPP2R5D	Not significant
PPP2R5E	Not significant
PPP3CA	Global late down
PPP3CB	Not significant
PPP3CC	B/T early up
PPP3R1	Not significant
PPP4C	Not significant
PPP4R2	Not significant
PPP4R3A	Not significant
PPP4R3B	Not significant
PPP5C	Not significant
PPP6C	Not significant
PPP6R1	B down
PPP6R2	Not significant
PPP6R3	Not significant
PPRC1	Not significant
PPT1	Mono late down
PPWD1	Not significant
PQBP1	Not significant
PQLC1	Not significant
PRCC	Not significant
PRDM1	Not significant
PRDM10	Not significant
PRDM2	Not significant
PRDM4	Not significant
PRDM8	Not significant
PRDX1	Not significant
PRDX3	Mono late down
PRDX4	Not significant
PRDX5	Not significant
PRDX6	Not significant
PREB	Not significant
PREP	Not significant
PREPL	Not significant

PREX1	Global late down
PRIM1	Not significant
PRIMPOL	Not significant
PRKAA1	Not significant
PRKAB1	Not significant
PRKACA	Not significant
PRKACB	Global late down
PRKAG1	Not significant
PRKAG2	Not significant
PRKAR2A	Not significant
PRKCB	Not significant
PRKCD	Not significant
PRKCE	Not significant
PRKCH	Global late down
PRKCI	Not significant
PRKCQ	Not significant
PRKCSH	Not significant
PRKD2	Not significant
PRKD3	Not significant
PRKDC	Not significant
PRKRA	Not significant
PRKX	Not significant
PRMT1	Not significant
PRMT2	Not significant
PRMT3	Not significant
PRMT6	Not significant
PRMT7	Not significant
PRMT9	Not significant
PRNP	Mono late down
PROS1	Not significant
PROSER1	Not significant
PRPF18	Not significant
PRPF19	Not significant
PRPF3	Not significant
PRPF31	Not significant
PRPF38A	Not significant
PRPF38B	Mono early down
PRPF39	Not significant
PRPF4	Not significant
PRPF40A	Lymph late up
PRPF40B	Not significant
PRPF6	Mono early down
PRPF8	Not significant
PRPS1	Not significant
PRPS2	Not significant

PRPSAP1	Not significant
PRPSAP2	Not significant
PRR11	Not significant
PRR12	Not significant
PRR13	Global up
PRR14	Not significant
PRR14L	Not significant
PRRC2A	Not significant
PSAP	Mono late down
PSD4	Not significant
PSEN1	Not significant
PSIP1	Lymph late up
PSKH1	Not significant
PSMA1	Mono late up
PSMA2	Mono late up
PSMA3	Mono late up
PSMA4	Mono late up
PSMA5	Not significant
PSMA6	Mono late up
PSMA7	Mono late up
PSMB1	Not significant
PSMB2	Not significant
PSMB3	Not significant
PSMB4	Not significant
PSMB5	Not significant
PSMB6	Mono late up
PSMB8	Global up
PSMB9	Global up
PSMC1	Not significant
PSMC2	Not significant
PSMC3	Not significant
PSMC3IP	Not significant
PSMC4	Not significant
PSMC5	Not significant
PSMD1	Not significant
PSMD10	Not significant
PSMD11	Not significant
PSMD12	Not significant
PSMD13	Mono late up
PSMD14	Mono late up
PSMD2	Not significant
PSMD3	Not significant
PSMD4	Not significant
PSMD6	Not significant
PSMD7	Not significant

PSMD8	Not significant
PSME1	B/T early up
PSME2	Global up
PSME3	Not significant
PSME4	Not significant
PSMF1	Global up
PSMG1	Not significant
PSMG2	Not significant
PSMG3	Not significant
PSMG4	Not significant
PSPC1	Not significant
PSTK	Not significant
PSTPIP1	B down
PTBP1	Not significant
PTBP2	Not significant
PTBP3	Not significant
PTCD2	Not significant
PTCD3	Not significant
PTDSS1	Not significant
PTEN	Not significant
PTER	Not significant
PTGER4	Mono early up
PTGES2	Not significant
PTGES3	Not significant
PTGES3L-AARSD1	Not significant
PTK2B	Not significant
PTOV1	Not significant
PTP4A1	B/T early up
PTP4A2	Mono late down
PTPA	Not significant
PTPMT1	Not significant
PTPN1	Global up
PTPN11	Not significant
PTPN12	Mono late up
PTPN13	Not significant
PTPN22	Global late down
PTPN23	Not significant
PTPN4	Not significant
PTPN6	Mono late down
PTPN9	Not significant
PTPRA	Not significant
PTPRC	Global late down
PTPRCAP	Not significant
PTPRE	Not significant
PTPRJ	Not significant

PTRH1	Not significant
PTRH2	Not significant
PTRHD1	Not significant
PTTG1	Not significant
PTTG1IP	Mono late down
PUF60	Not significant
PUM1	Not significant
PUM2	Not significant
PUM3	Not significant
PURA	Not significant
PURB	Not significant
PUS1	Not significant
PUS3	Not significant
PUS7	Not significant
PUS7L	Not significant
PWP1	Not significant
PWP2	Not significant
PWWP2A	Not significant
PXK	Not significant
PXMP4	Not significant
PXYLP1	Not significant
PYCARD	Mono late up
PYGB	Not significant
PYGM	Not significant
PYGO2	Not significant
PYHIN1	Not significant
PYM1	Not significant
PYROXD1	Not significant
QARS	Global down
QDPR	Not significant
QRICH1	Not significant
QRSL1	Not significant
QSER1	Not significant
QTRT2	Not significant
R3HCC1	Not significant
R3HCC1L	Not significant
R3HDM1	Not significant
R3HDM2	Not significant
RAB10	Not significant
RAB11A	Not significant
RAB11FIP2	Not significant
RAB11FIP3	Not significant
RAB11FIP4	Not significant
RAB12	Not significant
RAB18	Not significant

RAB1A	Not significant
RAB21	Not significant
RAB22A	Not significant
RAB24	Mono late down
RAB27A	Global late down
RAB28	Not significant
RAB29	Not significant
RAB2A	Not significant
RAB2B	Not significant
RAB33B	Not significant
RAB35	Not significant
RAB37	Not significant
RAB3GAP1	Not significant
RAB3GAP2	Not significant
RAB40C	Not significant
RAB43	Not significant
RAB4A	Not significant
RAB4B	Not significant
RAB5A	Not significant
RAB5C	Global up
RAB6A	Not significant
RAB7A	Not significant
RAB8A	Not significant
RAB8B	Not significant
RAB9A	Not significant
RABAC1	Global late down
RABEP1	Not significant
RABGAP1	Not significant
RABGAP1L	Not significant
RABGEF1	Not significant
RABGGTA	Not significant
RABGGTB	Not significant
RABIF	Not significant
RABL2B	Not significant
RABL6	Not significant
RACK1	Global late down
RAD1	Not significant
RAD17	Not significant
RAD21	Mono late down
RAD23A	Not significant
RAD23B	Not significant
RAD50	Not significant
RAD51C	Not significant
RAD52	Not significant
RAE1	Not significant

RAF1	Mono late up
RAI1	Not significant
RALA	Not significant
RALB	Not significant
RALBP1	Not significant
RALGAPA1	Not significant
RALGAPA2	Not significant
RALGAPB	Not significant
RALGDS	Not significant
RALGPS2	Not significant
RALY	Not significant
RAN	Not significant
RANBP1	Not significant
RANBP2	Mono early down
RANBP3	Not significant
RANBP9	Not significant
RANGAP1	Not significant
RAP1A	B down
RAP1B	B/T early up
RAP1GDS1	Not significant
RAP2C	Not significant
RAPGEF1	Not significant
RAPGEF2	Global late down
RARA	Not significant
RARRES1	Not significant
RARRES3	Global up
RARS	Not significant
RARS2	Not significant
RASA1	Not significant
RASA2	Not significant
RASA3	Global down
RASGEF1A	Not significant
RASGEF1B	Mono late down
RASGRF2	Not significant
RASGRP1	Global late down
RASGRP2	Global down
RASSF1	Global down
RASSF3	Global late down
RASSF5	Global late down
RASSF7	Not significant
RB1	Not significant
RB1CC1	Not significant
RBAK	Not significant
RBBP5	Not significant
RBBP6	Mono early down

RBBP7	Not significant
RBBP8	Not significant
RBCK1	Not significant
RBL1	Not significant
RBL2	Global late down
RBM10	Not significant
RBM12	B down
RBM12B	Not significant
RBM14	Not significant
RBM15	Not significant
RBM17	Not significant
RBM18	Not significant
RBM19	Not significant
RBM22	Not significant
RBM23	Not significant
RBM26	Not significant
RBM27	B/T early up
RBM28	Not significant
RBM33	Not significant
RBM34	Not significant
RBM38	Not significant
RBM39	Mono late down
RBM41	Not significant
RBM42	Not significant
RBM43	Not significant
RBM45	Not significant
RBM46	Not significant
RBM48	Not significant
RBM5	Not significant
RBM6	Not significant
RBM7	Not significant
RBM8A	Not significant
RBMS1	Not significant
RBMX2	Not significant
RBMXL1	Not significant
RBPJ	Mono late down
RBSN	Not significant
RBX1	Mono late up
RC3H1	Mono early down
RC3H2	Not significant
RCAN1	Not significant
RCAN3	Not significant
RCBTB1	Not significant
RCC1L	Not significant
RCC2	Not significant

RCE1	Not significant
RCHY1	Not significant
RCN1	Not significant
RCN2	Not significant
RCN3	Not significant
RCOR1	Not significant
RCOR3	Not significant
RCSD1	Mono late down
RDH10	Not significant
RDH5	Mono early up
RDX	Not significant
RECQL	Not significant
REEP3	Not significant
REEP5	Not significant
REL	Not significant
RELA	Not significant
RELL1	Not significant
RELT	Not significant
REPIN1	Not significant
REPS1	Not significant
RER1	Not significant
RERE	Not significant
REST	Global down
RETREG1	Not significant
RETREG2	Not significant
REV1	Not significant
REV3L	Global down
REX1BD	Not significant
REXO1	Not significant
REXO2	Not significant
REXO4	Not significant
RF00001	Not significant
RF00003	Not significant
RF00015	Not significant
RF00019	Not significant
RF00026	Not significant
RF00100	Not significant
RF00264	Not significant
RF00322	Not significant
RF00578	Not significant
RF01268	Not significant
RF01871	Not significant
RF02271	Not significant
RFC1	Mono early down
RFC3	Not significant

RFC4	Not significant
RFFL	Not significant
RFLNB	Lymph late up
RFT1	Not significant
RFTN1	Not significant
RFX2	Not significant
RFX3	Not significant
RFX7	Not significant
RFXANK	Not significant
RGCC	Not significant
RGL2	B/T early up
RGS1	B/T early up
RGS10	Not significant
RGS14	Not significant
RGS16	Not significant
RGS19	B down
RGS2	Mono early up
RGS3	Not significant
RGS9	Not significant
RHBDD2	Not significant
RHCE	Not significant
RHNO1	Not significant
RHOA	NK mid up
RHOC	Not significant
RHOG	Not significant
RHOH	Not significant
RHOT1	Not significant
RHOT2	Not significant
RIBC1	Not significant
RIC1	Not significant
RIC3	Not significant
RIC8A	Not significant
RIC8B	Not significant
RICTOR	Not significant
RIF1	Not significant
RILPL2	Not significant
RING1	Not significant
RINT1	Not significant
RIOK1	Not significant
RIOK2	Not significant
RIOK3	Not significant
RIOX1	Not significant
RIOX2	Not significant
RIPK1	Not significant
RIPK2	Not significant

RIPOR2	Global down
RITA1	Not significant
RLF	Not significant
RLIM	Not significant
RMC1	Not significant
RMDN1	Not significant
RMDN3	Not significant
RMND1	Not significant
RMND5A	Not significant
RMND5B	Not significant
RNASE4	Not significant
RNASE6	Mono early up
RNASEH1	Not significant
RNASEH2A	Not significant
RNASEH2B	NK mid up
RNASEH2C	Not significant
RNASET2	Mono late down
RNF10	Global down
RNF103	Mono late down
RNF11	Not significant
RNF111	Not significant
RNF113A	Not significant
RNF114	Global up
RNF115	Not significant
RNF121	Not significant
RNF123	Not significant
RNF126	Not significant
RNF13	Not significant
RNF130	Mono late down
RNF138	Not significant
RNF14	Not significant
RNF144A	Not significant
RNF145	Not significant
RNF146	Not significant
RNF157	Not significant
RNF167	Not significant
RNF168	Not significant
RNF187	Not significant
RNF2	Not significant
RNF20	Not significant
RNF214	Not significant
RNF216	Not significant
RNF219	Not significant
RNF220	Not significant
RNF34	Not significant

RNF38	Not significant
RNF4	Not significant
RNF40	Not significant
RNF44	Not significant
RNF6	Not significant
RNF7	Not significant
RNF8	Not significant
RNGTT	Not significant
RNH1	Not significant
RNMT	Not significant
RNPC3	Not significant
RNPEP	Not significant
RNPEPL1	Not significant
ROCK1	Mono early down
ROCK2	Mono late up
ROGDI	Not significant
ROMO1	Not significant
RORA	Global late down
ROS1	Not significant
RP2	Not significant
RP9	Not significant
RPA3	Not significant
RPAIN	Not significant
RPAP1	Not significant
RPAP2	Not significant
RPAP3	Not significant
RPF1	B/T early up
RPF2	Not significant
RPGR	Not significant
RPN1	Not significant
RPN2	Mono late down
RPP14	Not significant
RPP21	Not significant
RPP25L	Not significant
RPP30	Not significant
RPP38	Not significant
RPP40	Not significant
RPRD1A	Not significant
RPRD2	Not significant
RPS6KA1	Global down
RPS6KA2	Not significant
RPS6KA3	Not significant
RPS6KA5	Not significant
RPS6KB1	Mono late down
RPS6KB2	Not significant

RPS6KC1	Not significant
RPTOR	Not significant
RPUSD1	Not significant
RPUSD2	Not significant
RPUSD3	Not significant
RRAGA	Not significant
RRAGB	Not significant
RRAGC	Not significant
RRAS	Not significant
RRAS2	Not significant
RRBP1	Lymph late up
RREB1	Not significant
RRM1	Not significant
RRM2B	Not significant
RRN3	Not significant
RRNAD1	Not significant
RRP1	Not significant
RRP12	Not significant
RRP15	Not significant
RRP1B	Not significant
RRP8	Not significant
RRP9	Not significant
RRS1	Not significant
RSAD1	Not significant
RSAD2	Global up
RSBN1	Not significant
RSBN1L	Not significant
RSF1	Mono early down
RSL1D1	Lymph late up
RSL24D1	Mono late down
RSPH3	Not significant
RSPRY1	Not significant
RSRC1	Not significant
RSRC2	Mono early down
RSRP1	Mono early down
RSU1	Not significant
RTCA	Not significant
RTCB	Mono late up
RTF1	Mono early down
RTF2	Not significant
RTKN2	Not significant
RTL5	Not significant
RTL6	Not significant
RTN3	B down
RTN4	Mono late down

RTN4IP1	Not significant
RTP4	Not significant
RTRAF	Not significant
RTTN	Not significant
RUBCN	Not significant
RUFY1	Not significant
RUFY2	Not significant
RUFY3	Not significant
RUNX1	Not significant
RUNX2	Not significant
RUNX3	Mono late down
RUVBL1	Not significant
RUVBL2	Not significant
RWDD1	Not significant
RWDD2A	Not significant
RWDD2B	Not significant
RWDD4	Not significant
RXRB	Not significant
RXYLT1	Not significant
RYBP	Not significant
RYK	Not significant
S100A10	Global late down
S100A11	Mono early up
S100A4	Global down
S100A6	Mono late down
S100A8	Mono late up
S100A9	Mono late up
S100PBP	Not significant
S1PR1	Global late down
S1PR4	Not significant
SAAL1	Not significant
SACM1L	Not significant
SACS	Not significant
SAE1	Not significant
SAFB	Mono early down
SAFB2	Mono early down
SALL2	Not significant
SAMD1	Not significant
SAMD9	Global up
SAMD9L	Global up
SAMHD1	Global up
SAMM50	Not significant
SAMSN1	Mono late up
SAP130	Not significant
SAP18	B/T early up

SAP25	Not significant
SAP30BP	Not significant
SAP30L	Not significant
SARAF	Not significant
SARNP	Not significant
SARS	Not significant
SARS2	Not significant
SART1	Not significant
SART3	Not significant
SASH3	Not significant
SASS6	Not significant
SAT1	Global up
SAT2	Not significant
SATB1	Not significant
SAYSD1	Not significant
SBDS	Not significant
SBF1	Not significant
SBNO1	Global down
SBNO2	Not significant
SC5D	Not significant
SCAF11	Lymph late up
SCAF4	Not significant
SCAF8	Not significant
SCAMP1	Not significant
SCAMP2	Not significant
SCAMP3	Not significant
SCAND1	Not significant
SCAP	Not significant
SCARB2	Mono late down
SCCPDH	Not significant
SCFD1	Not significant
SCLT1	Global up
SCML1	Not significant
SCML4	Not significant
SCNM1	Not significant
SCO1	Not significant
SCP2	Not significant
SCRIB	Not significant
SCRN2	Not significant
SCYL1	Not significant
SCYL2	Not significant
SCYL3	Not significant
SDAD1	Not significant
SDCBP	Mono early up
SDCCAG8	Mono early down

SDE2	Not significant
SDF2	Not significant
SDF2L1	Not significant
SDF4	Global down
SDHA	B down
SDHAF2	Not significant
SDHB	Mono early up
SDR39U1	Not significant
SEC11A	Not significant
SEC11C	Not significant
SEC13	Not significant
SEC14L1	Not significant
SEC14L2	Not significant
SEC16A	Not significant
SEC22B	Not significant
SEC23B	Not significant
SEC23IP	Not significant
SEC24A	Not significant
SEC24B	Not significant
SEC24D	Not significant
SEC31A	Not significant
SEC61A1	Not significant
SEC61A2	Not significant
SEC61B	Not significant
SEC62	Global down
SEC63	Not significant
SECISBP2	Mono early down
SECISBP2L	Not significant
SEL1L	Not significant
SEL1L3	Not significant
SELENOF	Not significant
SELENOH	Not significant
SELENOM	Not significant
SELENOO	Not significant
SELENOS	Not significant
SELL	Mono early up
SELPLG	Not significant
SEMA4A	Not significant
SEMA4D	Global late down
SENP2	Not significant
SENP5	Not significant
SENP6	NK mid up
SENP7	Not significant
SEPHS1	Not significant
SEPHS2	Not significant

SEPSECS	Not significant
	01-sep Not significant
	11-sep B down
	02-sep Not significant
	03-sep Not significant
	06-sep Not significant
	07-sep Not significant
	08-sep Not significant
	09-sep Global down
SERBP1	Lymph late up
SERGEF	Not significant
SERINC1	Not significant
SERINC3	Not significant
SERINC5	Not significant
SERP1	Not significant
SERPINA1	Mono early up
SERPINB1	Mono late up
SERPINB8	Not significant
SERPINB9	Not significant
SERTAD1	B/T early up
SERTAD2	Not significant
SERTAD3	Not significant
SESN1	Not significant
SESN2	Not significant
SESN3	Not significant
SETD1A	Not significant
SETD1B	Not significant
SETD3	Not significant
SETD5	Not significant
SETD6	Not significant
SETDB1	Not significant
SETDB2	Not significant
SETX	Lymph late up
SF1	Mono early down
SF3A1	Not significant
SF3A2	Not significant
SF3A3	Not significant
SF3B1	Global late down
SF3B2	Not significant
SF3B3	Not significant
SF3B4	Not significant
SF3B5	Not significant
SF3B6	Not significant
SFI1	Not significant
SFMBT1	Not significant

SFMBT2	Not significant
SFPQ	Mono late down
SFSWAP	Mono early down
SFT2D1	Not significant
SGF29	Not significant
SGK1	B/T early up
SGK3	Not significant
SGMS1	Not significant
SGPL1	Global late down
SGPP1	Not significant
SGSM2	Not significant
SGTA	Not significant
SH2B3	Not significant
SH2D1A	Not significant
SH2D2A	Not significant
SH2D3A	Not significant
SH2D3C	Not significant
SH3BGRL	Mono late down
SH3BGRL3	Not significant
SH3BP1	Not significant
SH3BP2	Not significant
SH3BP5	Not significant
SH3BP5L	Not significant
SH3GLB1	Not significant
SH3GLB2	Not significant
SH3KBP1	Global down
SH3RF2	Not significant
SHARPIN	Not significant
SHC1	Not significant
SHKBP1	Not significant
SHMT2	Not significant
SHOC2	Mono early down
SHPRH	Not significant
SIAH1	Not significant
SIAH2	Not significant
SIK1	B/T early up
SIK2	Not significant
SIK3	Not significant
SIKE1	Not significant
SIL1	Not significant
SIN3A	Not significant
SIN3B	Not significant
SIPA1	Not significant
SIPA1L1	Not significant
SIPA1L2	Not significant

SIRPG	Not significant
SIRT1	Not significant
SIRT2	Not significant
SIRT5	Not significant
SIRT6	Not significant
SIRT7	Not significant
SIT1	Not significant
SIVA1	Not significant
SKA2	Not significant
SKI	Not significant
SKIL	Not significant
SKIV2L	Not significant
SKP1	Not significant
SKP2	Not significant
SLA	Not significant
SLAIN1	Not significant
SLAMF1	Not significant
SLBP	Not significant
SLC10A3	Not significant
SLC11A2	Not significant
SLC12A2	Not significant
SLC12A6	Not significant
SLC16A3	Mono late up
SLC16A5	Not significant
SLC16A7	Not significant
SLC17A5	Not significant
SLC19A2	Not significant
SLC1A5	Not significant
SLC20A1	NK mid up
SLC20A2	Not significant
SLC22A17	Not significant
SLC22A18	Not significant
SLC22A23	Not significant
SLC22A5	Not significant
SLC25A1	Not significant
SLC25A13	Not significant
SLC25A14	Not significant
SLC25A17	Not significant
SLC25A20	Not significant
SLC25A22	Not significant
SLC25A24	Not significant
SLC25A25	Not significant
SLC25A26	Not significant
SLC25A27	Not significant
SLC25A28	Not significant

SLC25A3	B/T early up
SLC25A33	Not significant
SLC25A37	Mono late up
SLC25A38	Not significant
SLC25A39	Global late down
SLC25A4	Global late down
SLC25A44	Not significant
SLC25A46	Not significant
SLC25A5	Mono late down
SLC25A6	Global late down
SLC26A6	Not significant
SLC27A1	Not significant
SLC27A2	Not significant
SLC2A1	Not significant
SLC2A3	Not significant
SLC2A4RG	Not significant
SLC30A5	Not significant
SLC30A6	Not significant
SLC30A7	Not significant
SLC30A9	Not significant
SLC35A3	Not significant
SLC35A4	Not significant
SLC35A5	Not significant
SLC35B1	Not significant
SLC35B2	Not significant
SLC35B3	Not significant
SLC35C2	Not significant
SLC35D1	Not significant
SLC35D2	Global late down
SLC35E3	Not significant
SLC35F2	Not significant
SLC35F6	Not significant
SLC37A1	Not significant
SLC37A3	Not significant
SLC37A4	Not significant
SLC38A1	Not significant
SLC38A10	Not significant
SLC38A2	Not significant
SLC38A5	Global up
SLC38A9	Not significant
SLC39A10	Mono early down
SLC39A11	Not significant
SLC39A13	Not significant
SLC39A3	Not significant
SLC39A6	Not significant

SLC39A7	Not significant
SLC39A8	Mono late up
SLC39A9	Not significant
SLC3A2	Not significant
SLC40A1	Not significant
SLC41A1	Not significant
SLC41A3	Not significant
SLC43A1	Not significant
SLC44A1	Not significant
SLC44A2	Global late down
SLC4A1AP	Not significant
SLC4A7	Not significant
SLC50A1	Not significant
SLC52A2	Not significant
SLC5A3	Not significant
SLC6A8	Not significant
SLC7A6OS	Not significant
SLC9A1	Not significant
SLC9A3R1	Not significant
SLC9A9	Not significant
SLCO3A1	Not significant
SLF1	Not significant
SLF2	Not significant
SLFN12L	Not significant
SLFN13	Not significant
SLFN5	Global up
SLIRP	Not significant
SLK	Global down
SLMAP	Not significant
SLTM	Lymph late up
SLU7	Lymph late up
SLX4IP	Not significant
SMAD2	Not significant
SMAD4	Not significant
SMAD5	Not significant
SMAP1	Not significant
SMAP2	Global up
SMARCA2	Mono early down
SMARCA4	Mono early down
SMARCA5	Global up
SMARCAD1	Not significant
SMARCAL1	Not significant
SMARCB1	Not significant
SMARCC1	Mono early down
SMARCC2	B down

SMARCD1	Not significant
SMARCE1	Not significant
SMC1A	Not significant
SMC2	Not significant
SMC3	Lymph late up
SMC4	Lymph late up
SMC5	Mono early down
SMC6	NK mid up
SMCHD1	Global up
SMCO4	Not significant
SMDT1	Global late down
SMG1	Not significant
SMG5	Not significant
SMG7	Not significant
SMG9	Not significant
SMIM11A	Not significant
SMIM12	Not significant
SMIM13	Not significant
SMIM14	Not significant
SMIM15	Not significant
SMIM19	Not significant
SMIM3	Not significant
SMIM4	Not significant
SMIM8	Not significant
SMN1	Not significant
SMNDC1	Lymph late up
SMOX	Not significant
SMPD1	Not significant
SMPD4	Not significant
SMPDL3A	Mono late up
SMS	Not significant
SMTNL1	Not significant
SMU1	Not significant
SMURF2	Not significant
SMYD4	Not significant
SMYD5	Not significant
SNAP23	Mono late down
SNAP29	Not significant
SNAP47	Not significant
SNAPC2	Not significant
SNAPC4	Not significant
SND1	Mono early down
SNF8	Not significant
SNIP1	Not significant
SNN	Mono late down

SNRK	Global late down
SNRNP200	Lymph late up
SNRNP25	Not significant
SNRNP27	Not significant
SNRNP35	Not significant
SNRNP48	Not significant
SNRPA	Not significant
SNRPA1	B/T early up
SNRPB	Not significant
SNRPB2	Not significant
SNRPC	Not significant
SNRPD1	Not significant
SNRPD2	Mono late up
SNRPD3	Not significant
SNRPE	Not significant
SNU13	Not significant
SNURF	Not significant
SNW1	Not significant
SNX1	Mono late up
SNX11	Not significant
SNX12	Not significant
SNX13	Not significant
SNX14	Not significant
SNX15	Not significant
SNX17	Not significant
SNX19	Not significant
SNX2	Mono late up
SNX25	Not significant
SNX27	Not significant
SNX29	Not significant
SNX3	B down
SNX4	Not significant
SNX5	Mono late down
SNX6	Not significant
SNX9	Not significant
SOCS1	Not significant
SOCS4	Not significant
SOCS5	Not significant
SOCS6	Not significant
SOD1	Not significant
SOD2	Mono late up
SON	Mono early down
SORBS1	Not significant
SORBS3	Not significant
SORL1	Global late down

SOS1	Lymph late up
SOS2	Not significant
SOX4	Not significant
SP1	Not significant
SP100	Global up
SP2	Not significant
SP3	Not significant
SP4	Not significant
SPAG16	Not significant
SPAG7	Not significant
SPAG9	Not significant
SPART	Not significant
SPAST	Not significant
SPATA2	Not significant
SPATA5	Not significant
SPATA5L1	Not significant
SPATA7	Not significant
SPATS2	Not significant
SPATS2L	Mono late up
SPCS1	Not significant
SPCS2	Not significant
SPCS3	Not significant
SPDEF	Not significant
SPDL1	Not significant
SPECC1L	Not significant
SPEN	Mono early down
SPG11	Not significant
SPG21	Mono late down
SPG7	Not significant
SPICE1	Not significant
SPIDR	Not significant
SPIN3	Not significant
SPINT2	Not significant
SPN	Not significant
SPNS1	Not significant
SPOCK2	Global down
SPOP	Not significant
SPOPL	Not significant
SPOUT1	Not significant
SPPL2A	Not significant
SPR	Not significant
SPRTN	Not significant
SPRYD3	Not significant
SPRYD7	Not significant
SPSB1	Not significant

SPSB3	Global down
SPTAN1	Global down
SPTBN1	Global down
SPTLC1	Not significant
SPTLC2	Not significant
SPTY2D1	Not significant
SQLE	Not significant
SQSTM1	Not significant
SRA1	Not significant
SRBD1	Not significant
SREBF2	Not significant
SREK1IP1	Not significant
SRF	Not significant
SRFBP1	Not significant
SRGN	B/T early up
SRI	Not significant
SRP14	Not significant
SRP54	Not significant
SRP68	Not significant
SRP72	Not significant
SRP9	Not significant
SRPK1	Not significant
SRPK2	Not significant
SRPRA	Not significant
SRRD	Not significant
SRRM1	Not significant
SRRT	Not significant
SRSF10	Not significant
SRSF11	Not significant
SRSF2	Not significant
SRSF3	Not significant
SRSF4	Not significant
SRSF6	Not significant
SRSF7	B/T early up
SRSF8	Not significant
SRSF9	Not significant
SRXN1	Not significant
SS18	Not significant
SS18L2	Not significant
SSB	Lymph late up
SSBP1	Not significant
SSBP2	Not significant
SSBP3	Not significant
SSBP4	Not significant
SSFA2	Mono late down

SSH2	Lymph late up
SSR1	Not significant
SSR2	Global down
SSR3	Not significant
SSR4	Not significant
SSRP1	Not significant
SSSCA1	Not significant
SSU72	Not significant
ST13	Not significant
ST3GAL1	Global down
ST3GAL4	Not significant
ST6GAL1	Not significant
ST6GALNAC4	Not significant
ST6GALNAC5	Not significant
ST6GALNAC6	Not significant
ST7L	Not significant
ST8SIA4	Not significant
STAG1	Not significant
STAG2	Not significant
STAG3	Not significant
STAM	Not significant
STAM2	Not significant
STAMBPL1	Not significant
STARD10	Not significant
STARD3	Not significant
STARD3NL	Not significant
STARD4	Not significant
STAT1	Global up
STAT2	Not significant
STAT3	Global up
STAT4	Not significant
STAT5A	Not significant
STAT5B	Not significant
STAT6	Mono late down
STAU1	Not significant
STAU2	Not significant
STIM1	Not significant
STIM2	Not significant
STIP1	Global down
STK10	Not significant
STK11	Global down
STK11IP	Not significant
STK17A	Global up
STK24	B down
STK25	Global down

STK26	Global late down
STK3	Not significant
STK35	Not significant
STK39	Not significant
STK4	Not significant
STK40	Not significant
STMN1	Not significant
STN1	Not significant
STOML2	Not significant
STRAP	Not significant
STRBP	Not significant
STRC	Not significant
STRIP1	Not significant
STRN	Not significant
STRN3	Not significant
STS	Not significant
STT3A	Not significant
STT3B	Mono early up
STUB1	Not significant
STX10	Not significant
STX11	Not significant
STX16	Not significant
STX17	Not significant
STX18	Not significant
STX2	Not significant
STX3	Not significant
STX4	Not significant
STX5	Not significant
STX6	Not significant
STX7	Not significant
STX8	Not significant
STXBP2	Not significant
STXBP3	Not significant
STXBP5	Not significant
STYX	Not significant
SUB1	Mono early up
SUCLA2	Not significant
SUCLG1	Not significant
SUCLG2	Not significant
SUCO	Not significant
SUDS3	Not significant
SUFU	Not significant
SUGP1	Not significant
SUGP2	Not significant
SUGT1	Not significant

SUMF1	Not significant
SUMO1	Not significant
SUMO2	Not significant
SUN1	Not significant
SUN2	Not significant
SUPT16H	Not significant
SUPT20H	Not significant
SUPT3H	Not significant
SUPT4H1	Global up
SUPT5H	Not significant
SUPT6H	Not significant
SUPT7L	Not significant
SURF1	Not significant
SURF2	Not significant
SURF4	Not significant
SUSD3	Not significant
SUSD6	Mono late down
SUZ12	Not significant
SVBP	Not significant
SVIL	Not significant
SVIP	Not significant
SWAP70	B down
SWT1	Not significant
SYAP1	Not significant
SYCE1	Not significant
SYF2	Not significant
SYMPK	Not significant
SYNCRIP	Not significant
SYNE1	Global down
SYNE2	Global up
SYNE3	Not significant
SYNGR2	Not significant
SYNJ1	Not significant
SYNJ2	Not significant
SYNRG	Not significant
SYPL1	Not significant
SYS1	Not significant
SYTL1	Not significant
SYTL2	Lymph late up
SZRD1	Not significant
SZT2	Not significant
TAB1	Not significant
TAB2	Global late down
TACC1	Mono early down
TACC3	Not significant

TADA2A	Not significant
TADA2B	Not significant
TADA3	Not significant
TAF1	Not significant
TAF10	Not significant
TAF11	Not significant
TAF12	Not significant
TAF15	Not significant
TAF1B	Not significant
TAF1C	Not significant
TAF1D	Not significant
TAF2	Not significant
TAF3	Not significant
TAF4	Not significant
TAF4B	Not significant
TAF5	Not significant
TAF5L	Not significant
TAF6	Not significant
TAF8	Not significant
TAF9	Not significant
TAF9B	Not significant
TAGAP	B/T early up
TAGLN2	Global down
TALDO1	Not significant
TANC1	Not significant
TANGO6	Not significant
TANK	Global up
TAOK1	Not significant
TAOK2	Not significant
TAOK3	Mono early down
TAPBP	Not significant
TAPT1	Not significant
TARBP1	Not significant
TARBP2	Not significant
TARDBP	Not significant
TARS	Mono late up
TARS2	Not significant
TARSL2	Not significant
TASP1	Not significant
TATDN1	Not significant
TAX1BP1	B down
TAX1BP3	Not significant
TBC1D1	Not significant
TBC1D10C	Not significant
TBC1D13	Not significant

TBC1D14	Not significant
TBC1D15	Not significant
TBC1D17	Not significant
TBC1D22A	Not significant
TBC1D23	Not significant
TBC1D24	Mono early up
TBC1D25	Not significant
TBC1D2B	Not significant
TBC1D31	Not significant
TBC1D4	Not significant
TBC1D5	Not significant
TBC1D9B	Not significant
TBCB	Not significant
TBCC	Not significant
TBCD	Not significant
TBCE	Not significant
TBCK	Not significant
TBK1	NK mid up
TBL1X	Not significant
TBL1XR1	Not significant
TBL2	Not significant
TBL3	Not significant
TBP	Not significant
TBPL1	Not significant
TBRG1	Not significant
TBRG4	Not significant
TBX21	NK mid up
TBXA2R	Not significant
TC2N	Not significant
TCAF1	Not significant
TCAIM	Not significant
TCEA1	Not significant
TCEA2	Not significant
TCEA3	Not significant
TCEAL1	Not significant
TCEAL8	Not significant
TCEANC	Not significant
TCEB2	Not significant
TCERG1	Lymph late up
TCF12	Not significant
TCF20	Not significant
TCF25	Not significant
TCF3	B down
TCF7	Global late down
TCFL5	Not significant

TCHP	Not significant
TCIRG1	Mono early down
TCOF1	Not significant
TCP1	Not significant
TCP11L2	Not significant
TDG	Not significant
TDP2	Not significant
TDRD3	Not significant
TDRD7	Not significant
TECPR1	Not significant
TECPR2	Not significant
TECR	Not significant
TEDC1	Not significant
TEP1	Mono early down
TEPSIN	Not significant
TERF1	Not significant
TERF2	Not significant
TERF2IP	Not significant
TES	Global down
TESC	Global late down
TESK1	Not significant
TESK2	Not significant
TESPA1	Not significant
TET1	Not significant
TET2	Not significant
TET3	Not significant
TEX10	Not significant
TEX2	Not significant
TEX261	Not significant
TEX264	Not significant
TEX30	Not significant
TFAM	Not significant
TFB1M	Not significant
TFB2M	Not significant
TFCP2	Not significant
TFDP1	Not significant
TFDP2	Not significant
TFE3	Not significant
TFG	Not significant
TFIP11	Not significant
TFPT	Not significant
TFRC	Not significant
TGDS	Not significant
TGFB1	Not significant
TGFBR1	Not significant

TGFBR2	Not significant
TGFBR3	Global late down
TGFBRAP1	Not significant
TGIF1	Not significant
TGOLN2	Not significant
TGS1	Not significant
THADA	Not significant
THAP1	Not significant
THAP11	Not significant
THAP12	Not significant
THAP5	Not significant
THAP7	Not significant
THBS3	Not significant
THEMIS	Not significant
THOC1	Not significant
THOC2	Mono early down
THOC3	Not significant
THOC5	Not significant
THOC6	Not significant
THOC7	Not significant
THRAP3	Not significant
THUMPD1	B/T early up
THUMPD2	Not significant
THUMPD3	Not significant
THYN1	Not significant
TIA1	Not significant
TIAL1	Not significant
TIAM1	Global down
TIE1	Not significant
TIGAR	Not significant
TIGD1	Not significant
TIGD2	Not significant
TIGD7	Not significant
TIMELESS	Not significant
TIMM13	Not significant
TIMM17A	Not significant
TIMM44	Not significant
TIMMDC1	Not significant
TIMP1	Not significant
TINF2	Not significant
TIPARP	Not significant
TIPRL	Not significant
TJP2	Not significant
TK2	Not significant
TKT	Not significant

TLE2	Not significant
TLE3	B down
TLE4	Not significant
TLK1	Global down
TLK2	Not significant
TLN1	Global down
TM2D1	Not significant
TM2D3	Not significant
TM7SF2	Not significant
TM9SF1	Not significant
TM9SF2	Not significant
TM9SF3	Not significant
TM9SF4	Not significant
TMA7	Not significant
TMBIM1	Not significant
TMBIM6	Not significant
TMC6	Not significant
TMC8	Not significant
TMCC1	Not significant
TMCO1	Not significant
TMCO3	Not significant
TMED1	Not significant
TMED10	Global late down
TMED2	Not significant
TMED3	Not significant
TMED4	Not significant
TMED9	Not significant
TMEM106B	Not significant
TMEM106C	Not significant
TMEM107	Mono early down
TMEM109	Not significant
TMEM120A	Not significant
TMEM126B	Not significant
TMEM129	Not significant
TMEM131	Mono early down
TMEM131L	Not significant
TMEM134	Not significant
TMEM140	Not significant
TMEM141	Not significant
TMEM147	Not significant
TMEM14B	Mono late down
TMEM154	Not significant
TMEM156	Not significant
TMEM159	Not significant
TMEM161A	Not significant

TMEM161B	Not significant
TMEM164	Not significant
TMEM165	Not significant
TMEM167A	Not significant
TMEM168	Not significant
TMEM173	Not significant
TMEM175	Not significant
TMEM179B	Not significant
TMEM18	Not significant
TMEM184C	Not significant
TMEM186	Not significant
TMEM187	Not significant
TMEM189	Not significant
TMEM192	Not significant
TMEM2	Not significant
TMEM203	Not significant
TMEM205	Not significant
TMEM206	Not significant
TMEM208	Not significant
TMEM219	Global down
TMEM222	Not significant
TMEM243	Not significant
TMEM248	Global late down
TMEM25	Not significant
TMEM250	Not significant
TMEM256	Not significant
TMEM258	Not significant
TMEM259	Global down
TMEM263	Not significant
TMEM30A	Not significant
TMEM33	Not significant
TMEM35B	Not significant
TMEM38B	Not significant
TMEM39A	Not significant
TMEM39B	Not significant
TMEM41B	Not significant
TMEM42	Not significant
TMEM43	Mono late down
TMEM50A	B/T early up
TMEM59	NK mid up
TMEM60	Not significant
TMEM62	Not significant
TMEM63A	Not significant
TMEM63B	Not significant
TMEM64	Not significant

TMEM70	Not significant
TMEM71	Not significant
TMEM87A	Not significant
TMEM87B	Not significant
TMEM8A	Mono late down
TMEM9	Not significant
TMEM91	Not significant
TMEM94	Not significant
TMEM97	Not significant
TMEM99	Not significant
TMEM9B	Not significant
TMF1	Not significant
TMOD2	Not significant
TMOD3	Mono late down
TMOD4	Not significant
TMPO	Not significant
TMTC2	Not significant
TMTC3	Not significant
TMTC4	Not significant
TMX1	Not significant
TMX3	Not significant
TMX4	Not significant
TNFAIP3	B/T early up
TNFAIP8	Global down
TNFRSF10A	Not significant
TNFRSF10B	Not significant
TNFRSF10D	Not significant
TNFRSF14	Mono late down
TNFRSF18	Not significant
TNFRSF1A	Not significant
TNFRSF1B	Not significant
TNFRSF25	Global down
TNFSF10	Mono late up
TNFSF12	Mono late down
TNFSF13B	Mono early up
TNFSF4	Not significant
TNFSF8	Not significant
TNIK	Not significant
TNIP1	Not significant
TNIP2	Not significant
TNK2	Global up
TNKS	Not significant
TNKS2	Not significant
TNNC1	Not significant
TNNT3	Not significant

TNPO1	Not significant
TNPO2	Not significant
TNPO3	Not significant
TNRC18	Not significant
TNRC6A	Mono early down
TNRC6C	Not significant
TOB1	B/T early up
TOB2	Not significant
TOE1	Not significant
TOGARAM1	Not significant
TOLLIP	Not significant
TOM1	Not significant
TOMM20	Not significant
TOMM22	Not significant
TOMM40	Not significant
TOMM6	Not significant
TOMM70	Not significant
TOP1	Global up
TOP1MT	Not significant
TOP2A	Not significant
TOP2B	Global down
TOP3A	Not significant
TOP3B	Not significant
TOPBP1	Not significant
TOPORS	Not significant
TOR1AIP1	Not significant
TOR1AIP2	Not significant
TOR1B	Not significant
TOR2A	Not significant
TOX	Not significant
TOX2	Not significant
TOX4	Not significant
TP53	Not significant
TP53BP1	Not significant
TP53BP2	Not significant
TP53I13	Not significant
TPCN1	Not significant
TPD52	Not significant
TPD52L2	Not significant
TPM1	Not significant
TPM3	Lymph late up
TPM4	Not significant
TPP2	Mono late down
TPR	Mono early down
TPRG1L	Not significant

TPRKB	Not significant
TPRN	Not significant
TPST2	Not significant
TPT1	B/T early up
TPX2	Not significant
TRA2A	Mono late down
TRA2B	NK mid up
TRABD	Not significant
TRADD	Not significant
TRAF1	Not significant
TRAF2	Not significant
TRAF3	Not significant
TRAF3IP1	Not significant
TRAF3IP2	Not significant
TRAF3IP3	Not significant
TRAF5	Not significant
TRAF7	Not significant
TRAFD1	Not significant
TRAK1	Mono late down
TRAM1	B/T early up
TRANK1	Global up
TRAP1	Not significant
TRAPPC1	Not significant
TRAPPC10	Not significant
TRAPPC11	Not significant
TRAPPC12	Not significant
TRAPPC13	Not significant
TRAPPC3	Not significant
TRAPPC4	Not significant
TRAPPC6A	Not significant
TRAPPC8	Not significant
TRAPPC9	Not significant
TRAT1	Not significant
TREML2	Global up
TRERF1	Not significant
TRIAP1	Not significant
TRIB1	Mono early up
TRIB2	Lymph late up
TRIM13	Not significant
TRIM14	Not significant
TRIM21	Not significant
TRIM22	Global up
TRIM24	Not significant
TRIM25	Global up
TRIM26	Not significant

TRIM27	Not significant
TRIM28	Not significant
TRIM32	Not significant
TRIM33	Not significant
TRIM37	Not significant
TRIM38	Global up
TRIM4	Not significant
TRIM41	Not significant
TRIM44	Not significant
TRIM45	Not significant
TRIM5	Global up
TRIM52	Not significant
TRIM56	Not significant
TRIM8	Not significant
TRIOBP	Not significant
TRIP11	Not significant
TRIP12	Global down
TRIP4	Not significant
TRIP6	Not significant
TRIR	Global late down
TRIT1	Not significant
TRMO	Not significant
TRMT1	Not significant
TRMT10B	Not significant
TRMT10C	Not significant
TRMT11	Not significant
TRMT112	Not significant
TRMT13	Not significant
TRMT1L	Not significant
TRMT2A	Not significant
TRMT6	Not significant
TRMT61B	Not significant
TRMU	Not significant
TRNAU1AP	Not significant
TRNT1	Not significant
TROVE2	Not significant
TRPC4AP	Not significant
TRPM7	Not significant
TRPS1	Not significant
TRPT1	Not significant
TRPV2	Not significant
TRRAP	Not significant
TRUB2	Not significant
TSC2	Not significant
TSC22D1	Not significant

TSC22D3	Global late down
TSC22D4	Not significant
TSEN15	Not significant
TSEN2	Not significant
TSEN34	Not significant
TSEN54	Not significant
TSG101	Not significant
TSGA10	Not significant
TSHZ1	Not significant
TSHZ2	Not significant
TSN	Not significant
TSNAX	Not significant
TSPAN14	Not significant
TSPAN17	Not significant
TSPAN2	Not significant
TSPAN3	Mono early up
TSPAN31	Not significant
TSPAN32	Not significant
TSPAN5	Not significant
TSPO	Mono early up
TSPYL2	Mono early down
TSPYL4	Not significant
TSR1	Not significant
TSR2	Not significant
TSSC4	Not significant
TSTA3	Not significant
TSTD2	Not significant
TTBK2	Not significant
TTC1	Not significant
TTC12	Not significant
TTC13	Not significant
TTC17	Mono early down
TTC19	Not significant
TTC21B	Not significant
TTC27	Not significant
TTC3	Global late down
TTC31	Not significant
TTC37	Not significant
TTC39C	Not significant
TTC5	Not significant
TTC7A	Not significant
TTC9C	Not significant
TTF1	Not significant
TTF2	Not significant
TTI1	Not significant

TTI2	Not significant
TTLL12	Not significant
TTLL5	Not significant
TUBA1A	Global down
TUBA1B	NK mid up
TUBA1C	Mono late up
TUBA4A	B/T early up
TUBB	Not significant
TUBB2B	Not significant
TUBB4B	B/T early up
TUBGCP2	Not significant
TUBGCP3	Not significant
TUBGCP4	Not significant
TUBGCP5	Not significant
TUBGCP6	Not significant
TUFM	Not significant
TULP4	Not significant
TUT1	Not significant
TVP23B	Not significant
TWF1	Not significant
TWF2	Global down
TWISTNB	Not significant
TXK	Not significant
TXLNA	Not significant
TXLNG	Not significant
TXN	Mono early up
TXNDC11	Not significant
TXNDC15	Not significant
TXNDC9	Not significant
TXNIP	Mono early down
TXNL1	Not significant
TXNL4A	Not significant
TXNL4B	Not significant
TXNRD1	Mono early up
TYK2	Not significant
TYW1	Not significant
TYW3	Not significant
TYW5	Not significant
U2SURP	Not significant
UAP1	Not significant
UBA1	Not significant
UBA2	Not significant
UBA3	Not significant
UBA5	Not significant
UBA52	Global late down

UBA6	Not significant
UBA7	Not significant
UBAC1	Not significant
UBAC2	Not significant
UBALD2	Mono late up
UBAP1	Not significant
UBAP2	Not significant
UBAP2L	Not significant
UBASH3A	Not significant
UBASH3B	Not significant
UBB	B/T early up
UBC	B/T early up
UBE2A	Not significant
UBE2B	Not significant
UBE2D1	Not significant
UBE2D2	Not significant
UBE2D3	B/T early up
UBE2D4	Not significant
UBE2F	Not significant
UBE2G1	Not significant
UBE2G2	Not significant
UBE2I	Not significant
UBE2J1	B/T early up
UBE2J2	Not significant
UBE2K	Not significant
UBE2L3	Mono late up
UBE2L6	Global up
UBE2N	Not significant
UBE2O	Not significant
UBE2Q1	Not significant
UBE2R2	Mono late down
UBE2S	Not significant
UBE2V2	Not significant
UBE3A	Not significant
UBE3B	Not significant
UBE3C	Not significant
UBE4B	Not significant
UBL3	Not significant
UBL4A	Not significant
UBLCP1	Not significant
UBN1	B down
UBN2	Not significant
UBOX5	Not significant
UBP1	Not significant
UBQLN2	Not significant

UBR1	Not significant
UBR2	Not significant
UBR3	Not significant
UBR4	Not significant
UBR5	Mono early down
UBR7	Not significant
UBTF	Global down
UBXN1	Mono early down
UBXN2A	Not significant
UBXN2B	Not significant
UBXN4	Not significant
UBXN6	Not significant
UBXN7	Not significant
UCHL3	Not significant
UCHL5	Not significant
UCKL1	Not significant
UCP2	Not significant
UEVLD	Not significant
UFC1	Not significant
UFD1	Not significant
UFL1	Not significant
UFSP2	Not significant
UGCG	Not significant
UGDH	Not significant
UGGT1	Not significant
UGP2	Mono early up
UHMK1	Not significant
UHRF1BP1L	Not significant
UHRF2	Not significant
UIMC1	Not significant
ULK2	Mono late down
ULK3	Not significant
UMAD1	Not significant
UMPS	Not significant
UNC119	Not significant
UNC13D	Not significant
UNC45A	Not significant
UNC50	Not significant
UNC93B1	Not significant
UPF1	Not significant
UPF2	Not significant
UPF3A	Not significant
UPF3B	Not significant
UPP1	Not significant
UQCC1	Not significant

UQCC3	Not significant
UQCRB	Not significant
UQCRC1	Not significant
UQCRC2	Not significant
UQCRH	Not significant
URB1	Not significant
URB2	Not significant
URGCP	Not significant
URI1	Not significant
UROD	Not significant
UROS	Not significant
USE1	Not significant
USF2	Not significant
USH1C	Not significant
USO1	Not significant
USP1	Not significant
USP11	Not significant
USP14	Not significant
USP15	B/T early up
USP16	Not significant
USP19	Not significant
USP20	Not significant
USP21	Not significant
USP22	Not significant
USP24	Not significant
USP25	Global up
USP3	Mono late down
USP32	Not significant
USP33	Not significant
USP34	Not significant
USP36	Mono late down
USP37	Not significant
USP38	Not significant
USP39	Not significant
USP4	Not significant
USP40	Not significant
USP44	Not significant
USP45	Not significant
USP47	Not significant
USP48	B down
USP5	Not significant
USP53	Not significant
USP6NL	Not significant
USP8	Mono early down
USP9X	Not significant

USP9Y	Not significant
USPL1	Not significant
UTP11	Not significant
UTP14A	Not significant
UTP15	Not significant
UTP18	Not significant
UTP20	Not significant
UTP23	Not significant
UTP3	Not significant
UTP4	Not significant
UTP6	Not significant
UTY	Not significant
UVRAG	B/T early up
UXS1	Not significant
VAC14	Not significant
VAMP1	Not significant
VAMP2	Not significant
VAMP3	Not significant
VAMP4	Not significant
VAMP5	Global up
VAMP7	Not significant
VAMP8	Mono late down
VAPB	Not significant
VAR5	Not significant
VAR52	Not significant
VASP	B down
VAT1	Mono late up
VAV1	Not significant
VAV3	Not significant
VBP1	Not significant
VCAN	Mono early up
VCL	Mono late down
VCP	Not significant
VCPIP1	Not significant
VDAC1	Not significant
VDAC2	Not significant
VDAC3	Not significant
VEGFB	Not significant
VEZF1	NK mid up
VEZT	Not significant
VGLL4	Not significant
VIM	B down
VIPAS39	Not significant
VIRMA	Not significant
VMA21	Not significant

VOPP1	NK mid up
VPS11	Not significant
VPS13A	Not significant
VPS13B	Mono early down
VPS13D	Not significant
VPS16	Not significant
VPS18	Not significant
VPS25	Not significant
VPS26A	Not significant
VPS26B	Not significant
VPS26C	Not significant
VPS28	Not significant
VPS29	Not significant
VPS33A	Not significant
VPS33B	Not significant
VPS35	Not significant
VPS36	Mono early down
VPS37A	Not significant
VPS37B	Not significant
VPS39	Not significant
VPS41	Not significant
VPS45	Not significant
VPS4A	Not significant
VPS4B	Not significant
VPS50	Not significant
VPS51	Not significant
VPS52	Not significant
VPS53	Not significant
VPS54	Not significant
VPS72	Not significant
VPS8	Not significant
VRK1	Not significant
VRK2	Not significant
VRK3	Not significant
VSIG1	Not significant
VTA1	Not significant
VTI1B	Not significant
VWA3A	Not significant
VWA8	Not significant
WAC	Not significant
WAPL	Mono early down
WARS	Global up
WARS2	Not significant
WAS	Not significant
WASF2	Mono early down

WASHC3	Not significant
WASHC4	Not significant
WASHC5	Not significant
WASL	Not significant
WBP1	Not significant
WBP11	Not significant
WBP1L	Not significant
WBP2	Not significant
WBP4	Not significant
WDFY1	Not significant
WDFY2	Not significant
WDPCP	Not significant
WDR1	Mono late up
WDR11	Not significant
WDR13	Not significant
WDR20	Not significant
WDR24	Not significant
WDR25	Not significant
WDR26	Not significant
WDR3	Mono early down
WDR33	Not significant
WDR34	Not significant
WDR36	Not significant
WDR37	Not significant
WDR4	Not significant
WDR41	Not significant
WDR43	Not significant
WDR44	Not significant
WDR45	Not significant
WDR45B	Not significant
WDR46	Not significant
WDR47	Not significant
WDR48	Not significant
WDR5	Not significant
WDR54	Not significant
WDR59	Not significant
WDR60	Not significant
WDR61	Not significant
WDR7	Not significant
WDR70	Not significant
WDR74	Not significant
WDR75	Not significant
WDR76	Not significant
WDR82	Not significant
WDR83	Not significant

WDR83OS	Mono late down
WDSUB1	Not significant
WDTC1	Not significant
WFIKKN1	Not significant
WHAMM	Not significant
WIPF1	B/T early up
WIPI2	Not significant
WNK1	Global down
WRAP53	Not significant
WRAP73	Not significant
WRB	Not significant
WRN	Not significant
WRNIP1	Not significant
WSB1	Not significant
WTAP	Not significant
WWC3	Not significant
XAB2	Not significant
XAF1	Global up
XPB1	Not significant
XIAP	Not significant
XPA	Not significant
XPC	Not significant
XPNPEP1	Not significant
XPO1	Not significant
XPO4	Not significant
XPO5	Not significant
XPO6	Not significant
XPO7	Not significant
XPOT	Not significant
XRCC1	Not significant
XRCC5	Mono late up
XRCC6	Not significant
XRN1	Global up
XRN2	Lymph late up
XXYLT1	Not significant
XYLT1	Not significant
XYLT2	Not significant
YAE1D1	Not significant
YAF2	Not significant
YARS	Mono late up
YARS2	Not significant
YIF1A	Not significant
YIPF3	Not significant
YIPF5	Not significant
YJEFN3	Not significant

YKT6	Not significant
YLPM1	Not significant
YME1L1	Not significant
YPEL1	Not significant
YPEL2	Mono late down
YPEL3	Not significant
YPEL4	Not significant
YPEL5	B/T early up
YTHDF1	Not significant
YTHDF2	Not significant
YTHDF3	Not significant
YWHAB	Global late down
YWHAE	Mono late up
YWHAG	Mono late up
YWHAH	Not significant
YWHAQ	Not significant
YWHAZ	B/T early up
YY1	Not significant
YY1AP1	Not significant
ZADH2	Not significant
ZAP70	Global late down
ZBED1	Not significant
ZBED5	Not significant
ZBTB1	Not significant
ZBTB10	Not significant
ZBTB11	Not significant
ZBTB14	Not significant
ZBTB16	Not significant
ZBTB17	Not significant
ZBTB18	Not significant
ZBTB2	Not significant
ZBTB20	Not significant
ZBTB21	Not significant
ZBTB24	Not significant
ZBTB33	Not significant
ZBTB38	Global late down
ZBTB39	Not significant
ZBTB40	Not significant
ZBTB43	Mono late down
ZBTB44	Not significant
ZBTB48	Not significant
ZBTB49	Not significant
ZBTB5	Not significant
ZBTB7B	Not significant
ZBTB80S	Not significant

ZC2HC1A	Not significant
ZC3H11A	Global down
ZC3H13	Not significant
ZC3H14	Not significant
ZC3H15	Not significant
ZC3H18	Not significant
ZC3H4	Not significant
ZC3H6	Not significant
ZC3H7A	Lymph late up
ZC3H7B	Not significant
ZC3HAV1	Not significant
ZCCHC10	Not significant
ZCCHC14	Not significant
ZCCHC17	Not significant
ZCCHC2	Mono late up
ZCCHC8	Not significant
ZCCHC9	Not significant
ZCRB1	Not significant
ZDBF2	Not significant
ZDHHC12	Not significant
ZDHHC13	Not significant
ZDHHC16	Not significant
ZDHHC17	Not significant
ZDHHC18	Not significant
ZDHHC20	Mono late down
ZDHHC3	Not significant
ZDHHC6	Not significant
ZDHHC7	Not significant
ZEB1	Not significant
ZEB2	Not significant
ZFAND2B	Not significant
ZFAND3	Not significant
ZFAND4	Not significant
ZFP30	Not significant
ZFP36	B/T early up
ZFP36L1	Global late down
ZFP36L2	B/T early up
ZFP37	Not significant
ZFP62	Not significant
ZFP69	Not significant
ZFP82	Not significant
ZFP90	Not significant
ZFPL1	Not significant
ZFR	NK mid up
ZFX	Not significant

ZFY	Not significant
ZFYVE16	Mono late down
ZFYVE19	Not significant
ZFYVE21	Not significant
ZFYVE26	Not significant
ZFYVE27	Not significant
ZFYVE9	Not significant
ZGPAT	Not significant
ZHX1	Not significant
ZHX2	Not significant
ZIK1	Not significant
ZKSCAN1	Not significant
ZKSCAN4	Not significant
ZKSCAN5	Not significant
ZMAT1	Not significant
ZMAT2	Not significant
ZMAT3	Not significant
ZMPSTE24	Not significant
ZMYM1	Not significant
ZMYM2	Not significant
ZMYM3	Not significant
ZMYM4	Not significant
ZMYM5	Not significant
ZMYM6	Not significant
ZMYND11	Not significant
ZMYND19	Not significant
ZMYND8	Not significant
ZNF100	Not significant
ZNF101	Not significant
ZNF106	Mono early down
ZNF107	Global up
ZNF114	Not significant
ZNF12	Not significant
ZNF121	Not significant
ZNF124	Not significant
ZNF131	Not significant
ZNF134	Not significant
ZNF14	Not significant
ZNF140	Not significant
ZNF141	Not significant
ZNF142	Not significant
ZNF143	Not significant
ZNF146	Not significant
ZNF148	Not significant
ZNF154	Not significant

ZNF155	Not significant
ZNF16	Not significant
ZNF160	Not significant
ZNF169	Not significant
ZNF177	Not significant
ZNF18	Not significant
ZNF180	Not significant
ZNF181	Not significant
ZNF182	Not significant
ZNF184	Not significant
ZNF195	Not significant
ZNF200	Not significant
ZNF202	Not significant
ZNF207	Not significant
ZNF211	Not significant
ZNF212	Not significant
ZNF217	Not significant
ZNF22	Not significant
ZNF224	Not significant
ZNF226	Not significant
ZNF23	Not significant
ZNF232	Not significant
ZNF236	Not significant
ZNF239	Not significant
ZNF24	Not significant
ZNF248	Not significant
ZNF250	Not significant
ZNF256	Not significant
ZNF26	Not significant
ZNF260	Not significant
ZNF263	Not significant
ZNF267	B/T early up
ZNF268	Not significant
ZNF273	Not significant
ZNF274	Not significant
ZNF275	Not significant
ZNF276	Not significant
ZNF277	Not significant
ZNF280C	Not significant
ZNF280D	Not significant
ZNF281	Not significant
ZNF282	Not significant
ZNF287	Not significant
ZNF292	Global down
ZNF3	Not significant

ZNF300	Not significant
ZNF304	Not significant
ZNF317	Not significant
ZNF318	Mono late down
ZNF319	Not significant
ZNF32	Not significant
ZNF326	Mono early down
ZNF330	Not significant
ZNF331	Not significant
ZNF335	Not significant
ZNF33A	Not significant
ZNF33B	Not significant
ZNF34	Not significant
ZNF350	Not significant
ZNF354A	Not significant
ZNF354B	Not significant
ZNF367	Not significant
ZNF384	Not significant
ZNF394	Not significant
ZNF395	Not significant
ZNF407	Not significant
ZNF408	Not significant
ZNF41	Not significant
ZNF410	Not significant
ZNF414	Not significant
ZNF420	Not significant
ZNF426	Not significant
ZNF430	Not significant
ZNF431	Not significant
ZNF44	Not significant
ZNF441	Not significant
ZNF444	Not significant
ZNF445	Not significant
ZNF446	Not significant
ZNF45	Not significant
ZNF451	Not significant
ZNF460	Not significant
ZNF462	Not significant
ZNF468	Not significant
ZNF471	Not significant
ZNF473	Not significant
ZNF48	Not significant
ZNF480	Not significant
ZNF493	Not significant
ZNF506	Not significant

ZNF507	Not significant
ZNF510	Not significant
ZNF511	Not significant
ZNF512	Not significant
ZNF512B	Not significant
ZNF518A	Not significant
ZNF518B	Not significant
ZNF524	Not significant
ZNF528	Not significant
ZNF549	Not significant
ZNF555	Not significant
ZNF559	Not significant
ZNF565	Not significant
ZNF568	Not significant
ZNF569	Not significant
ZNF571	Not significant
ZNF574	Not significant
ZNF581	Not significant
ZNF585A	Not significant
ZNF586	Not significant
ZNF592	Not significant
ZNF595	Not significant
ZNF597	Not significant
ZNF605	Not significant
ZNF609	Not significant
ZNF614	Not significant
ZNF615	Not significant
ZNF616	Not significant
ZNF618	Not significant
ZNF623	Not significant
ZNF626	Not significant
ZNF638	Mono early down
ZNF639	Not significant
ZNF644	Mono early down
ZNF646	Not significant
ZNF649	Not significant
ZNF652	Not significant
ZNF654	Not significant
ZNF664	Not significant
ZNF668	Not significant
ZNF671	Not significant
ZNF672	Not significant
ZNF680	Not significant
ZNF682	Not significant
ZNF684	Not significant

ZNF687	Not significant
ZNF688	Not significant
ZNF689	Not significant
ZNF692	Not significant
ZNF7	Not significant
ZNF700	Not significant
ZNF703	Mono late down
ZNF706	Not significant
ZNF707	Not significant
ZNF708	Not significant
ZNF710	Not significant
ZNF711	Not significant
ZNF738	Not significant
ZNF740	Not significant
ZNF746	Not significant
ZNF75A	Not significant
ZNF75D	Not significant
ZNF766	Not significant
ZNF770	Not significant
ZNF777	Not significant
ZNF780B	Not significant
ZNF782	Not significant
ZNF783	Not significant
ZNF791	Not significant
ZNF8	Not significant
ZNF800	Not significant
ZNF805	Not significant
ZNF827	Not significant
ZNF83	Not significant
ZNF830	Not significant
ZNF831	Not significant
ZNF836	Not significant
ZNF839	Not significant
ZNF84	Not significant
ZNF845	Not significant
ZNF846	Not significant
ZNF85	Not significant
ZNF91	Not significant
ZNF92	B/T early up
ZNF93	Not significant
ZNFX1	Global up
ZNHIT1	Not significant
ZNHIT2	Not significant
ZNHIT6	Not significant
ZNRD1	Not significant

ZRANB1	Not significant
ZRANB2	Not significant
ZRANB3	Not significant
ZSCAN21	Not significant
ZSCAN25	Not significant
ZSCAN26	Not significant
ZSCAN29	Not significant
ZSCAN32	Not significant
ZSWIM6	Not significant
ZSWIM7	Not significant
ZSWIM8	Not significant
ZUFSP	Not significant
ZW10	Not significant
ZWILCH	Not significant
ZXDC	Not significant
ZYX	Not significant
ZZEF1	Not significant
ABCA1	Not significant
ABCF3	Not significant
ACOT8	Not significant
ALAD	Not significant
AMN1	Not significant
ANKAR	Not significant
AP4M1	Not significant
APH1B	Not significant
APOM	Not significant
ARSA	Not significant
B4GALT5	Not significant
BANP	Not significant
BAX	Not significant
BCL2L1	Not significant
BTBD10	Not significant
C7H14orf119	Not significant
C7orf25	Not significant
CATSPER2	Not significant
CCDC159	Not significant
CD1C	B down
CD86	Not significant
CETN3	Not significant
CFAP53	Not significant
CHN1	Not significant
CKAP2	Not significant
CLCN7	Not significant
CPT1B	Not significant
CXHXorf21	Mono late up

CYB5RL	Not significant
DCTN3	Not significant
DENND1A	Not significant
DHRS11	Not significant
DTD2	Not significant
EFCAB11	Not significant
ENSMMUG00000000703	Not significant
ENSMMUG00000000717	Not significant
ENSMMUG00000002301	Not significant
ENSMMUG00000010764	Not significant
ENSMMUG00000015475	Not significant
ENSMMUG00000017209	Not significant
ENSMMUG00000018530	Not significant
ENSMMUG00000023311	Not significant
ENSMMUG00000037794	Not significant
ENSMMUG00000038976	Not significant
ENSMMUG00000040669	Not significant
ENSMMUG00000041972	Not significant
ENSMMUG00000042729	Not significant
ENSMMUG00000042885	Not significant
ENSMMUG00000044661	Not significant
ENSMMUG00000045559	Not significant
ENSMMUG00000048099	Not significant
EPAS1	Not significant
EPB41L2	Not significant
FAM241B	Not significant
FCF1	Not significant
GALK2	Not significant
GAN	Not significant
GFPT1	Not significant
GID8	Not significant
GIN1	Not significant
GNA11	Not significant
GORAB	Not significant
GRAMD2B	Not significant
GSS	Not significant
HDAC8	Not significant
HRASLS2	Lymph late up
INPP5B	Not significant
KIF5C	Not significant
KLHL20	Not significant
LIN37	Not significant
LMO2	Mono late down
LMO7	Not significant
LRIG2	Not significant

MBLAC1	Not significant
MED7	Not significant
MINPP1	Not significant
MPND	Not significant
MRNIP	Not significant
MYEF2	Not significant
MYL9	Not significant
NME7	Not significant
NMNAT3	Not significant
NPRL3	Not significant
OCEL1	Not significant
OPRL1	Not significant
PARVA	Not significant
PATL2	Not significant
PDE7B	Not significant
PEX6	Not significant
PHKA1	Not significant
PLA2G15	Not significant
PLD2	Not significant
PLEKHM3	Not significant
PLK4	Not significant
PLSCR1	Mono late up
PM20D1	Not significant
PRELID1	Not significant
PRMT5	Not significant
RAB9B	Not significant
RABEPK	Not significant
RAD18	Not significant
REC8	Not significant
RGS18	Mono early up
RNF5	Not significant
SBF2	Not significant
SCRN3	Not significant
SIDT1	Not significant
SLC18B1	Not significant
SLC25A19	Not significant
SLC38A6	Not significant
SLC4A2	Not significant
SLC9B2	Not significant
SNX8	Not significant
STAMPB	Not significant
STIL	Not significant
STRADA	Not significant
STRN4	Not significant
SULT1A3	Not significant

SYNM	Not significant
THAP4	Not significant
TIFA	Not significant
TIMM23	Not significant
TPGS2	Not significant
TRAPPC6B	Not significant
TRIB3	Not significant
TTYH3	Not significant
UNG	Not significant
USP28	Not significant
USP51	Not significant
VPS35L	Not significant
WDHD1	Not significant
YEATS4	Not significant
ZDHHC4	Not significant
ZNF251	Not significant
ZNF382	Not significant
ZNF429	Not significant
ZNF551	Not significant
ZNF567	Not significant
ZNF577	Not significant
ZNF611	Not significant
ZNF681	Not significant
ZNF841	Not significant
ZNF862	Not significant
ACP5	Not significant
ACYP1	Not significant
AUH	Not significant
B4GAT1	Not significant
C14orf93	Not significant
C16orf70	Not significant
C19orf44	Not significant
C2H3orf18	Not significant
CCDC171	Not significant
CDH26	Not significant
CHCHD6	Not significant
CSKMT	Not significant
CSMD3	Not significant
DHDH	Not significant
EEFSEC	Not significant
ENSMMUG00000011256	Not significant
ENSMMUG00000011937	Not significant
ENSMMUG00000012166	Not significant
ENSMMUG00000021239	Not significant
ENSMMUG00000038836	Not significant

ENSMMUG00000039188	Not significant
ENSMMUG00000039966	Not significant
ENSMMUG00000044726	Not significant
ENSMMUG00000047376	Not significant
ENSMMUG00000049195	Not significant
ENSMMUG00000049206	Not significant
EYA3	Not significant
FAM83G	Not significant
GAL	Not significant
GNPDA1	Not significant
GPATCH2L	Not significant
HEMGN	Not significant
HLA-DQA1	Mono late down
HYLS1	Not significant
IFT27	Not significant
KNDC1	Not significant
KRT222	Not significant
LHPP	Not significant
LIMK1	Not significant
LYN	Mono late down
MAMU-DQA1	Mono late down
MCAT	Not significant
MCM5	Not significant
MCM8	Not significant
MLH1	Not significant
MNDA	Mono late down
MPI	Not significant
MRI1	Not significant
MRPL19	Not significant
MVB12B	Not significant
MYO15B	Not significant
NOD1	Not significant
PARP12	Not significant
PLEK	Mono early up
POLQ	Not significant
PRAG1	Not significant
PYCR1	Not significant
RAB34	Not significant
RAMP1	Not significant
RF00012	Not significant
RF00283	Not significant
RHOA	Not significant
SHMT1	Not significant
SLC25A12	Not significant
SLC25A45	Not significant

SLC39A14	Not significant
SLC5A6	Not significant
SNUPN	Not significant
SP140	Lymph late up
SUSD4	Not significant
SYCP2	Not significant
TCTN3	Not significant
TMCO4	Not significant
TMIGD2	Not significant
WDR18	Not significant
ZBTB34	Not significant
ZC3H8	Not significant
ZNF174	Not significant
ZNF197	Not significant
ZNF225	Not significant
ZNF337	Not significant
ZNF347	Not significant
ZNF484	Not significant
ZNF485	Not significant
ZNF674	Not significant
ZNF789	Not significant
ZNF879	Not significant
AASS	Not significant
ABAT	Not significant
ABCB6	Not significant
ABHD4	Not significant
ABHD5	Not significant
ABI3	Not significant
ACBD5	Not significant
ACOT11	Not significant
ACSS1	Not significant
ACTN3	Not significant
ADAMTSL5	Not significant
ADCK1	Not significant
ADGRG1	Global late down
ADRB2	Not significant
AFAP1L2	Lymph late up
AGFG2	Not significant
AKAP13	Not significant
ALDH4A1	Not significant
ALS2	Not significant
ANKRD50	Not significant
AOAH	Mono late down
AP2A1	Not significant
APOBEC3A	Mono early up

ARHGAP11A	Not significant
ARHGAP32	Not significant
ARL6	Not significant
ARRB1	Not significant
ARSB	Not significant
ASPM	Not significant
ATP1A3	Not significant
BLZF1	Not significant
BORA	Not significant
BORCS5	Not significant
BRCA2	Not significant
C11H12orf4	Not significant
C12orf40	Not significant
C12orf75	Not significant
C2orf42	Not significant
C4H6orf136	Not significant
CALHM2	Not significant
CAMK1D	Not significant
CAMTA2	Not significant
CASS4	Not significant
CAVIN2	Not significant
CCDC146	Not significant
CCL5	Not significant
CCNA2	Not significant
CCNB1IP1	Not significant
CCNJL	Not significant
CCR3	Not significant
CCR5	Not significant
CD300A	Mono early up
CDC25A	Not significant
CDC34	Not significant
CDK1	Not significant
CDKL5	Not significant
CDKN2C	Not significant
CENPM	Not significant
CENPN	Not significant
CENPU	Not significant
CERS2	Not significant
CHAF1A	Not significant
CHML	Not significant
CHST6	Not significant
CLEC12A	Global up
CLIC4	Not significant
CLNK	Not significant
CMA1	Not significant

COL11A1	Not significant
COMTD1	Not significant
COPG2	Not significant
COX17	Not significant
CPEB2	Not significant
CPTP	Not significant
CRIM1	Not significant
CST7	Not significant
CX3CR1	Not significant
CXCR6	Not significant
CYBB	Mono late up
CYTH4	Not significant
DCLRE1A	Not significant
DDAH2	Not significant
DMXL2	Not significant
DNAH7	Not significant
DNAJC3	Not significant
DOCK5	Mono late down
DPY19L1	Not significant
DVL3	Not significant
EBPL	Not significant
EFCAB7	Not significant
ELP6	Not significant
EML2	Not significant
ENSMMUG00000002922	Not significant
ENSMMUG00000004015	Mono early up
ENSMMUG00000008224	Not significant
ENSMMUG00000008227	Mono late down
ENSMMUG00000013289	Mono late down
ENSMMUG00000013779	Not significant
ENSMMUG00000014003	Not significant
ENSMMUG00000014402	Mono late up
ENSMMUG00000015285	Not significant
ENSMMUG00000018860	Not significant
ENSMMUG00000020008	Not significant
ENSMMUG00000020102	Not significant
ENSMMUG00000020856	Not significant
ENSMMUG00000031202	Not significant
ENSMMUG00000037542	Not significant
ENSMMUG00000037901	Not significant
ENSMMUG00000038113	Not significant
ENSMMUG00000038355	Not significant
ENSMMUG00000038533	Not significant
ENSMMUG00000039360	Not significant
ENSMMUG00000039788	Not significant

ENSMMUG00000040625	Not significant
ENSMMUG00000040626	Not significant
ENSMMUG00000040642	Not significant
ENSMMUG00000041183	Not significant
ENSMMUG00000041473	Not significant
ENSMMUG00000041939	Not significant
ENSMMUG00000041974	Not significant
ENSMMUG00000042057	Not significant
ENSMMUG00000042343	Mono early up
ENSMMUG00000042961	Not significant
ENSMMUG00000043350	Not significant
ENSMMUG00000043712	Not significant
ENSMMUG00000044591	Not significant
ENSMMUG00000045612	Not significant
ENSMMUG00000046263	Not significant
ENSMMUG00000047311	Not significant
ENSMMUG00000048107	Not significant
ENTPD1	Mono late down
EPB41L5	Not significant
EPN2	Not significant
ERCC6L	Not significant
EVI5	Mono early down
EXT1	Not significant
F2R	Not significant
FAM13A	Not significant
FAM184B	Not significant
FAM214B	Not significant
FAM49A	Mono late down
FASLG	Not significant
FBXL19	Not significant
FBXO30	Not significant
FCGR3	Mono late down
FGFBP2	Not significant
FGR	Not significant
FHL2	Not significant
FOCAD	Not significant
FRY	Not significant
GALNT3	Not significant
GAS7	Not significant
GFI1	Not significant
GK	Not significant
GK5	Not significant
GMPPB	Not significant
GNGT2	Not significant
GOT1	Not significant

GPR141	Not significant
GPR35	Not significant
GPR55	Not significant
GPT2	Not significant
GTDC1	Not significant
GTPBP2	Not significant
GZMA	Not significant
GZMM	Not significant
HEG1	Not significant
HIP1	Not significant
HJURP	Not significant
HLA-DQB1	B/T early up
HLCS	Not significant
HUNK	Not significant
HUS1	Not significant
IKZF2	Not significant
IL12RB2	Not significant
IL18RAP	Not significant
IL7	Not significant
IMPDH1	Not significant
INCENP	Not significant
INPP1	Not significant
IPPK	Not significant
IRF8	Not significant
ITGAM	Mono late up
ITGAV	Not significant
ITGAX	B down
JPT2	Not significant
KCNAB3	Not significant
KCNK5	Not significant
KIAA0141	Not significant
KIF11	Not significant
KIF15	Not significant
KIF21A	Not significant
KIF23	Not significant
KIF26B	Not significant
KIFC1	Not significant
KLHDC3	Not significant
KLRC1	Not significant
KLRD1	Not significant
KLRF1	Not significant
KLRG1	Not significant
KRBA2	Not significant
LCA5	Not significant
LIN7C	Not significant

LITAF	Mono late up
LRRC46	Not significant
LRRC56	Not significant
LY6E	Not significant
LYRM7	Not significant
MAGT1	Not significant
MAMLD1	Not significant
MAMU-DMA	Mono late down
MAMU-DMB	Mono late down
MAMU-DRB1	Mono late down
MAST3	Not significant
MCF2	Not significant
MCM2	Not significant
MCRIP1	Not significant
MED12L	Not significant
MED9	Not significant
MEI1	Not significant
METRNL	Not significant
MFSD4A	Not significant
MGST2	Not significant
MICAL2	Not significant
MICALCL	Not significant
MOB3A	Not significant
MON1A	Not significant
MPC1	Not significant
MYO1C	Not significant
MYO1E	Not significant
MYRF	Not significant
NCAPG	Not significant
NCKAP5L	Not significant
NCR1	Lymph late up
NCR3	Not significant
NDE1	Not significant
NDUFA5	Not significant
NDUFAF6	Not significant
NEU1	Not significant
NFE2L3	Not significant
NFKBID	Not significant
NHSL2	Not significant
NKG7	Not significant
NLRC3	Not significant
NR1H3	Not significant
NSMAF	Not significant
NTN4	Not significant
NTNG2	Not significant

NUF2	Not significant
NUP37	Not significant
NUSAP1	Not significant
OBSCN	Not significant
OGFRL1	Mono late down
OSR2	Not significant
PCDH1	Not significant
PCGF1	Not significant
PCNX3	Not significant
PERP	Not significant
PIK3R2	Not significant
PIP5K1C	Not significant
PITPNA	Not significant
PKNOX1	Not significant
PLCB1	Mono late down
PLCG2	Not significant
PLCXD2	Not significant
PLK1	Not significant
PLTP	Not significant
PMAIP1	Not significant
POLE	Not significant
POLR1A	Not significant
POLR3K	Not significant
POMT2	Not significant
PPP2R2B	Not significant
PQLC2	Not significant
PRKCA	Not significant
PRSS57	Not significant
PSEN2	Not significant
PTGDR	Not significant
PTK7	Not significant
PTMS	Not significant
PVRIG	Not significant
RALGPS1	Not significant
RAVER1	Not significant
RBBP4	Not significant
RETSAT	Not significant
RHBDF2	Mono late up
RHOBTB1	Not significant
RHOBTB3	Not significant
RHOF	Not significant
RIN3	Not significant
RPA2	Not significant
RTP5	Not significant
S1PR5	Not significant

SAMD3	Not significant
SCAF1	Not significant
SEC24C	Not significant
SELENOP	Mono late down
SEMA4F	Not significant
SERPINB6	Not significant
SERPINI1	Not significant
SFR1	Not significant
SGCB	Not significant
SH3TC1	Not significant
SIGLEC5	Not significant
SKAP2	Not significant
SLAMF6	Not significant
SLAMF7	Not significant
SLC11A1	Not significant
SLC12A4	Not significant
SLC1A4	Not significant
SLC31A2	Not significant
SLC43A3	Mono late up
SLC4A10	Not significant
SLC6A6	Not significant
SLCO4C1	Not significant
SMARCD2	Not significant
SMIM29	Not significant
SNRNP40	Not significant
SNX10	Mono late up
SOAT1	Not significant
SPINK2	Not significant
SPRY2	Not significant
SRGAP2	Not significant
SRM	Not significant
SSH1	Not significant
SSH3	Not significant
STXBP4	Not significant
SYK	B down
SYT11	Not significant
TAF6L	Not significant
TBC1D20	Not significant
TBKBP1	Not significant
TEC	Not significant
TFEB	Not significant
THEM4	Not significant
THY1	Not significant
TIMM21	Not significant
TLN2	Not significant

TLR6	Not significant
TM7SF3	Not significant
TMEM104	Not significant
TMEM229B	Not significant
TMEM68	Not significant
TNFSF14	Not significant
TPCN2	Not significant
TRAV6	Not significant
TSHZ3	Not significant
TSPAN33	Mono late down
TTLL4	Not significant
TUBB1	Not significant
TYROBP	Global late down
U2AF2	Not significant
UBALD1	Not significant
USP54	Not significant
VANGL1	Not significant
VWA5A	Not significant
WDR63	NK mid up
WEE1	Not significant
ZBED4	Not significant
ZBP1	Not significant
ZBTB22	Not significant
ZBTB32	Not significant
ZC3H10	Not significant
ZFAT	Not significant
ZGRF1	Not significant
ZMAT5	Not significant
ZNF438	Not significant
ZNF449	Not significant
ZNF496	Not significant
ZNF502	Not significant
ZNF79	Not significant
ABCB1	Not significant
AKR1C1	Not significant
APEX2	Not significant
ARHGAP1	Not significant
BANK1	Global up
C1orf216	Not significant
C22orf39	Not significant
C8H8orf76	Not significant
CARD6	Not significant
CHPT1	Not significant
CREB3	Not significant
ENSMMUG00000001245	Not significant

EXOG	Not significant
FADS3	Not significant
GGCT	Not significant
HAVCR2	Not significant
KIAA1217	Not significant
MCM10	Not significant
METTL6	Not significant
NRM	Not significant
OLFM1	Not significant
PALLD	Mono late down
PIDD1	Not significant
PMPCA	Not significant
RASSF2	Not significant
RNASEL	Not significant
SDK2	Not significant
SNTB1	Not significant
TAMM41	Not significant
TM6SF1	Not significant
TRIM59	Not significant
TXNDC16	Not significant
VEGFA	Lymph late up
ZNF432	Not significant
ADAM19	Not significant
ARHGEF39	Not significant
ARL11	Not significant
ATP5F1	Not significant
AURKA	Not significant
AURKB	Not significant
BIRC5	Not significant
BOLA1	Not significant
BUB1	Not significant
C9orf40	Not significant
CAB39L	Not significant
CCDC126	Not significant
CCDC150	Not significant
CCNB2	Not significant
CCNE1	Not significant
CCNF	Not significant
CDC20	Not significant
CDC6	Not significant
CDCA2	Not significant
CDCA7	Not significant
CDKN3	Not significant
CDPF1	Not significant
CENPW	Not significant

CEP55	Not significant
CHAF1B	Not significant
CHMP1A	Not significant
CHTF18	Not significant
CIT	Not significant
CLDN15	Not significant
CLSPN	Not significant
CTBP2	Mono late down
CYB5R1	Not significant
DDX11	Not significant
DHCR7	Not significant
DLGAP5	Not significant
DTL	Not significant
E2F1	Not significant
ENSMMUG00000001764	Mono early up
ENSMMUG00000001895	Not significant
ENSMMUG00000002722	Not significant
ENSMMUG00000003926	Not significant
ENSMMUG00000006011	Not significant
ENSMMUG00000006517	Not significant
ENSMMUG00000006814	Not significant
ENSMMUG00000009657	Not significant
ENSMMUG00000010333	Not significant
ENSMMUG00000013527	Not significant
ENSMMUG00000013925	Not significant
ENSMMUG00000014009	Not significant
ENSMMUG00000014717	Not significant
ENSMMUG00000017133	Not significant
ENSMMUG00000018296	Not significant
ENSMMUG00000020594	Not significant
ENSMMUG00000022587	Not significant
ENSMMUG00000029945	Not significant
ENSMMUG00000030465	Not significant
ENSMMUG00000030696	Not significant
ENSMMUG00000030901	Not significant
ENSMMUG00000031047	Not significant
ENSMMUG00000031343	Not significant
ENSMMUG00000031396	Not significant
ENSMMUG00000032194	Not significant
ENSMMUG00000032370	Not significant
ENSMMUG00000038094	Not significant
ENSMMUG00000038584	Not significant
ENSMMUG00000039415	Not significant
ENSMMUG00000040029	Not significant
ENSMMUG00000040105	Not significant

ENSMMUG00000040487	Not significant
ENSMMUG00000040849	Not significant
ENSMMUG00000041033	Not significant
ENSMMUG00000041283	Not significant
ENSMMUG00000041811	Not significant
ENSMMUG00000042994	Not significant
ENSMMUG00000043395	Not significant
ENSMMUG00000043635	Not significant
ENSMMUG00000044377	Not significant
ENSMMUG00000044960	Not significant
ENSMMUG00000046867	Not significant
ENSMMUG00000047507	Not significant
ENSMMUG00000047568	Not significant
ENSMMUG00000048391	Not significant
ERP29	Not significant
ETFDH	Not significant
EXO1	Not significant
EXOSC5	Not significant
FADS1	Not significant
FBXO6	Not significant
FEN1	Not significant
FES	Not significant
FOXM1	Not significant
GALM	Not significant
GEN1	Not significant
GNA15	Mono late up
GOT2	Not significant
GTF2H2	Not significant
GTSE1	Not significant
HAUS5	Not significant
HDGFL3	Not significant
HIST1H1B	Not significant
HIST1H2AH	Not significant
HK2	Not significant
HMMR	Not significant
IL23R	Not significant
ISYNA1	Not significant
KATNAL1	Not significant
KIF14	Not significant
KIF2C	Not significant
KIF4A	Not significant
KLRC3	Not significant
KNTC1	Not significant
LMO4	Not significant
LRR1	Not significant

LRRC42	Not significant
MECR	Not significant
METTL2A	Not significant
MFN2	Not significant
MGME1	Not significant
MRPL2	Not significant
MRPL35	Not significant
MRPL42	Not significant
MTMR11	Not significant
MYBL2	Not significant
MZB1	Not significant
NAT6	Not significant
NCAPH	Not significant
NCDN	Not significant
NDOR1	Not significant
NLK	Not significant
NPHP4	Not significant
NQO2	Not significant
NUDT16	Mono late up
OTUD7B	Not significant
PCMT1	Not significant
PDCD2L	Not significant
PDLIM7	Not significant
PEX14	Not significant
PGAM1	Not significant
PHGDH	Not significant
POC1A	Not significant
POLR2F	Not significant
PRAM1	Not significant
PRC1	Not significant
PSAT1	Not significant
RAD51	Not significant
RAD54L	Not significant
RFC2	Not significant
RRM2	Not significant
RTL10	Not significant
SEC23A	Not significant
SH3GL1	Not significant
SHCBP1	Not significant
SLC25A10	Not significant
SLC25A11	Not significant
SLC29A1	Not significant
SPAG5	Not significant
TATDN3	Not significant
THOP1	Not significant

TIMM17B	Not significant
TK1	Not significant
TMEM177	Not significant
TSFM	Not significant
TSR3	Not significant
TTC23	Not significant
TXNDC17	Not significant
UBTD2	Not significant
UHRF1	Not significant
WFS1	Not significant
ZBED2	Not significant
ZNF253	Not significant
ZNF322	Not significant
A4GALT	Not significant
ABCA4	Not significant
ABCC4	Not significant
ABCD2	Not significant
ADAM9	Not significant
ADAMTS13	Not significant
ADAP1	Not significant
ADARB1	Not significant
ADAT2	Not significant
AEBP1	Not significant
AFMID	Not significant
AGBL2	Not significant
AIFM3	Not significant
ALKBH6	Not significant
ANK1	Not significant
ANKMY2	Not significant
ANXA4	Not significant
AREG	Not significant
ARHGAP24	Not significant
ARHGAP31	Not significant
ARID3A	Not significant
ARL10	Not significant
ARL4D	Not significant
ARL5B	Not significant
ATG16L2	Not significant
ATP6V0A1	Not significant
ATP8B1	Not significant
B4GALT2	Not significant
BASP1	Not significant
BCL7A	Not significant
BEND6	Not significant
BEND7	Not significant

BFAR	Not significant
BICDL2	Not significant
BLK	Not significant
BLNK	Not significant
BMF	Not significant
BTBD3	Not significant
CACNA1A	Not significant
CADM1	Not significant
CALY	Not significant
CCDC125	Not significant
CCDC187	Not significant
CCDC191	Not significant
CCDC28A	Not significant
CCDC32	Not significant
CCDC80	Not significant
CCSER1	Not significant
CD180	Not significant
CD19	B down
CD22	Not significant
CD24	Not significant
CD40	Not significant
CD72	Not significant
CDCA7L	Not significant
CDH2	Not significant
CDH20	Not significant
CDK14	Not significant
CELF6	Not significant
CGN	Not significant
CHST15	Not significant
CIITA	Not significant
CLCF1	Not significant
CLEC17A	Not significant
CLUAP1	Not significant
CMTM8	Not significant
CNR2	Not significant
COL8A2	Not significant
CPPED1	Not significant
CSF2RB	Mono late up
CSGALNACT1	Not significant
CTNND1	Not significant
CYB561A3	Not significant
CYP27A1	Mono late down
DAPK1	Mono late down
DAPP1	Not significant
DENND2A	Not significant

DENND3	Not significant
DENND5B	Not significant
DERL3	Not significant
DFFA	Not significant
DGKG	Not significant
DIRAS2	Not significant
DLL1	Not significant
DMD	Not significant
DMPK	Not significant
DNPH1	Not significant
DOK3	Not significant
DRAM2	Not significant
DSE	Not significant
DUSP28	Not significant
DYNLRB2	Not significant
E2F5	Not significant
EA2F	B/T early up
EBF1	Not significant
ELL3	Not significant
EMILIN2	Not significant
ENC1	Not significant
ENSMMUG00000002200	Not significant
ENSMMUG00000002764	Not significant
ENSMMUG00000004807	Not significant
ENSMMUG00000004839	Not significant
ENSMMUG00000007341	Not significant
ENSMMUG00000007379	Not significant
ENSMMUG00000007849	Not significant
ENSMMUG00000008000	Not significant
ENSMMUG00000008181	Not significant
ENSMMUG00000008434	Not significant
ENSMMUG00000009038	Not significant
ENSMMUG00000010647	Not significant
ENSMMUG00000011303	Not significant
ENSMMUG00000011424	Not significant
ENSMMUG00000012083	Not significant
ENSMMUG00000012407	Not significant
ENSMMUG00000012859	Not significant
ENSMMUG00000013172	Not significant
ENSMMUG00000014259	Not significant
ENSMMUG00000014641	Not significant
ENSMMUG00000014661	Not significant
ENSMMUG00000015202	Not significant
ENSMMUG00000015443	Not significant
ENSMMUG00000016634	Not significant

ENSMMUG00000016682	Not significant
ENSMMUG00000017111	Not significant
ENSMMUG00000018611	Not significant
ENSMMUG00000019087	Not significant
ENSMMUG00000019253	Not significant
ENSMMUG00000019689	Not significant
ENSMMUG00000022836	Not significant
ENSMMUG00000029022	Not significant
ENSMMUG00000029059	Not significant
ENSMMUG00000037520	Not significant
ENSMMUG00000037569	Not significant
ENSMMUG00000038067	Not significant
ENSMMUG00000038237	Not significant
ENSMMUG00000038358	Mono late down
ENSMMUG00000038544	Not significant
ENSMMUG00000039562	Not significant
ENSMMUG00000039742	Not significant
ENSMMUG00000041411	Not significant
ENSMMUG00000041723	Not significant
ENSMMUG00000041744	Not significant
ENSMMUG00000042014	Not significant
ENSMMUG00000042143	Mono late down
ENSMMUG00000042261	Not significant
ENSMMUG00000042625	Not significant
ENSMMUG00000043259	Not significant
ENSMMUG00000043450	Not significant
ENSMMUG00000043513	Not significant
ENSMMUG00000043771	Not significant
ENSMMUG00000044001	Not significant
ENSMMUG00000044197	Not significant
ENSMMUG00000044215	Not significant
ENSMMUG00000044802	Not significant
ENSMMUG00000044861	Not significant
ENSMMUG00000045221	Not significant
ENSMMUG00000045846	Not significant
ENSMMUG00000048370	Not significant
ENSMMUG00000048526	Not significant
ENSMMUG00000049030	Not significant
ENSMMUG00000049216	Not significant
ENSMMUG00000049226	Not significant
EPS8	Mono early up
ERMAP	Not significant
EVC2	Not significant
EYA2	Not significant
FAM117B	Not significant

FAM129C	Not significant
FAM135A	Not significant
FAM167A	Not significant
FAM173A	Not significant
FAM81A	Not significant
FANCL	Not significant
FARP2	Not significant
FBF1	Not significant
FBLN2	Not significant
FBXO10	Not significant
FCER2	Not significant
FCGR2A	Mono early up
FCRL1	Not significant
FCRL2	Not significant
FCRL3	Not significant
FCRL5	B/T early up
FCRLA	B/T early up
FFAR1	Not significant
FGD2	Mono late down
FGD4	Not significant
FGD6	Not significant
FGFR1	Not significant
FHAD1	Mono late up
FMNL2	Not significant
FMO5	Not significant
FOXP4	Not significant
FRMD4A	Not significant
FSD2	Not significant
FUOM	Not significant
GAB2	Not significant
GANC	Not significant
GAPT	Lymph late up
GATB	Not significant
GATM	Not significant
GBA2	Not significant
GNG7	Not significant
GPSM1	Not significant
GRHL1	Not significant
GRK3	Not significant
GRK4	Not significant
GSAP	Not significant
GSTT2	Not significant
HCK	Mono late up
HDAC9	Not significant
HES1	Not significant

HES6	Not significant
HEXIM2	Not significant
HHEX	B down
HIST1H2AD	Not significant
HIST2H3A	Not significant
HMOX1	Not significant
HPS3	Not significant
HRK	Not significant
HS3ST1	Not significant
HVCN1	Mono late up
IFNLR1	Not significant
IFT122	Not significant
IRF5	Mono early up
JAZF1	Not significant
JCHAIN	Not significant
KCNH3	Not significant
KCNIP3	Not significant
KEL	Not significant
KIAA0319	Not significant
KIF13A	Not significant
KIF18A	Not significant
KLRF2	Not significant
KMO	Not significant
KYNU	Not significant
LACTB2	Not significant
LAT2	Not significant
LDB2	Not significant
LGALS12	Not significant
LIPJ	Not significant
LIPN	Not significant
LONRF3	Not significant
LRRC25	Mono late down
LRRC61	Not significant
LRRC70	Not significant
LRRK1	Not significant
LRRK2	Mono late down
LRRN3	Not significant
MAMU-DOA	Not significant
MAMU-DOB	Not significant
MAP3K20	Not significant
MAP7D2	Not significant
	01-mar
MARCKS	Mono late up
MEF2C	Mono late down
MEIG1	Not significant

MIA	Not significant
MILR1	Not significant
MLYCD	Not significant
MND1	Not significant
MNS1	Not significant
MOCOS	Mono late up
MPP6	Not significant
MS4A7	Mono late down
MSC	Not significant
MTFR1	Not significant
MTHFR	Not significant
MTMR14	Not significant
NAPSA	Not significant
NCF1	Mono late up
NDST1	Not significant
NKX3-1	Not significant
NLRP1	Not significant
NOD2	Not significant
NOX1	Not significant
NPC2	Not significant
NRGN	Not significant
NUAK2	Not significant
NUGGC	Not significant
OGG1	Not significant
OSBPL10	Not significant
PADI2	B down
PALM2	Not significant
PAQR8	Not significant
PAX5	Not significant
PDCL	Not significant
PFKFB4	Not significant
PGAM2	Not significant
PGGT1B	Not significant
PHACTR1	Not significant
PHLPP1	Not significant
PIK3R6	Not significant
PIP5K1B	Not significant
PLBD1	B/T early up
PLD4	Not significant
PLEKHJ1	Not significant
PLXNB2	B down
PNOC	Not significant
POU2AF1	Not significant
POU2F2	Not significant
PPFIA2	Not significant

PPM1J	Not significant
PRCP	Mono late down
PRELID2	Not significant
PRUNE1	Not significant
PTAFR	Mono late down
PTCH1	Not significant
PTDSS2	Not significant
PTK2	Not significant
PTP4A3	Not significant
PTPDC1	Not significant
PUS10	Not significant
QSOX2	Not significant
RAB11B	Not significant
RAB30	Not significant
RAB3A	Not significant
RAB3C	Not significant
RAB44	Mono late up
RABEP2	Not significant
RANBP10	Not significant
RANGRF	Not significant
RAPGEF5	Not significant
RASGRP3	Not significant
RASSF4	Not significant
RBM3	Not significant
RF00191	Not significant
RF01957	Not significant
RGL1	Mono late up
RHOB	Not significant
RHOBTB2	Not significant
RHOQ	Not significant
RIPOR1	Not significant
RNASEK	Not significant
RNF144B	Not significant
RNF215	Not significant
RNFT1	Not significant
RUBCNL	Not significant
RYR1	Not significant
S100A13	Not significant
SAG	Not significant
SAP30	Not significant
SAV1	Not significant
SCAMP4	Not significant
SCFD2	Not significant
SCIMP	Not significant
SEMA4B	Not significant

SETMAR	Not significant
SGTB	Not significant
SIGLEC10	Not significant
SIGLEC6	Not significant
SIPA1L3	Not significant
SLC15A2	Not significant
SLC15A3	B down
SLC15A4	Not significant
SLC16A11	Not significant
SLC23A1	Not significant
SLC25A29	Not significant
SLC25A40	Not significant
SLC29A2	Not significant
SLC29A3	Not significant
SLC2A10	Not significant
SLC43A2	Not significant
SLC9A7	Not significant
SLCO5A1	Not significant
SLX4	Not significant
SMYD2	Not significant
SNX16	Not significant
SNX18	Not significant
SNX21	Not significant
SOBP	Not significant
SOGA1	Not significant
SOX5	Not significant
SPATA33	Not significant
SPATA6	Not significant
SPHK2	Not significant
SPI1	Not significant
SSPN	Not significant
ST3GAL5	Not significant
ST3GAL6	Not significant
STAP1	Mono late up
STARD5	Not significant
STARD7	Not significant
STARD9	Not significant
STK38L	Not significant
SYVN1	Not significant
TBC1D9	Not significant
TBCCD1	Not significant
TCEANC2	Not significant
TCF4	Not significant
TCTN1	Not significant
TEX9	Not significant

TFEC	Mono late up
THNSL2	Not significant
TIMM8A	Not significant
TLE1	Not significant
TLR1	Not significant
TLR10	B down
TLR9	Not significant
TMED7	Not significant
TMEM231	Not significant
TNNI2	Not significant
TNS3	Not significant
TP73	Not significant
TRIM47	Not significant
TRIM6	Not significant
TRIM7	Not significant
TRIO	Not significant
TRMT5	Not significant
TTC21A	Not significant
TYMP	Mono early up
UBE2E2	Not significant
UCHL1	Not significant
UFM1	Not significant
ULK4	Not significant
UPB1	Not significant
USP30	Not significant
USP46	Not significant
UTS2B	Not significant
VASH1	Not significant
VAV2	Not significant
VNN2	Mono late up
VPREB3	Not significant
VPS37C	Not significant
WDFY4	B down
WDR19	Not significant
WDR35	Not significant
WDR92	Not significant
WHRN	Not significant
WIF1	Not significant
WNT7B	Not significant
XKRX	Not significant
ZDHHC23	Not significant
ZMIZ1	Not significant
ZNF165	Not significant
ZNF175	Not significant
ZNF283	Not significant

ZNF333	Not significant
ZNF529	Not significant
ZNF557	Not significant
ZNF608	Not significant
ZNF621	Not significant
ZNF768	Not significant
ZNF790	Not significant
ZNF821	Not significant
ANKRD16	Not significant
ATN1	Not significant
BAIAP2	Not significant
BCKDHB	Not significant
BRSK1	Not significant
C1orf112	Not significant
CABP5	Not significant
CCDC154	Not significant
CHKA	Not significant
COL9A2	Not significant
CPNE8	Not significant
CTNNAL1	Not significant
DXO	Not significant
ENSMMUG00000000085	Not significant
ENSMMUG00000008515	Not significant
ENSMMUG00000008795	Not significant
ENSMMUG00000044638	Not significant
ENSMMUG00000047538	Not significant
JADE3	Not significant
KCND1	Not significant
KHDRBS3	Not significant
KSR1	Not significant
LDB3	Not significant
LRRC32	Not significant
MAMDC4	Not significant
MMS22L	Not significant
ODF3B	Mono early up
PAPSS2	Not significant
PRKAR2B	Not significant
RBM47	Not significant
RELB	Not significant
SAMD4A	Not significant
	10-sep
SETD7	Not significant
SLC16A1	Not significant
TAGLN	Not significant
TMEM50B	Not significant

TPST1	Not significant
TREX1	Not significant
UCK2	Not significant
ZNF613	Not significant
ZNF736	Not significant
ZNF776	Not significant
ATRNL1	Not significant
CST3	Mono late down
DEPP1	Not significant
GCA	Mono late up
RHEBL1	Not significant
RNF43	Not significant
SYNPO	Not significant
VWA3B	Not significant
ZMIZ2	Not significant
ZNF691	Not significant
ZSCAN5A	Not significant
ABCB8	Not significant
ADAMTS7	Not significant
ADAT1	Not significant
AGPAT4	Not significant
ALDH1A3	Not significant
ANGPT2	Not significant
ANKRD42	Not significant
ANKS1A	Not significant
ANO10	Not significant
ATG4A	Not significant
ATP11A	Not significant
ATP8B4	Not significant
BACE1	Not significant
BTNL3	Not significant
C3H7orf61	Not significant
CAMKMT	Not significant
CARNS1	Not significant
CASP6	Not significant
CCDC102A	Not significant
CCDC138	Not significant
CCDC158	Not significant
CCDC24	Not significant
CD244	Not significant
CD300C	Not significant
CD300LD	Not significant
CDYL2	Not significant
CGREF1	Not significant
CGRRF1	Not significant

CMTR2	Not significant
CNNM2	Not significant
COA7	Not significant
COL5A3	Not significant
CPE	Not significant
CPM	Not significant
CSRNP2	Not significant
CTRL	Not significant
CTTN	Not significant
CXCR2	Not significant
DHCR24	Not significant
DIXDC1	Not significant
DNASE1	Not significant
DPEP1	Not significant
DPH7	Not significant
EEF1AKMT3	Not significant
EHHADH	Not significant
ENO3	Not significant
ENSMMUG00000000126	Not significant
ENSMMUG000000002212	Not significant
ENSMMUG000000007596	Not significant
ENSMMUG000000007703	Not significant
ENSMMUG000000008567	Not significant
ENSMMUG000000009114	Not significant
ENSMMUG000000009165	Not significant
ENSMMUG000000009456	Not significant
ENSMMUG000000011326	Not significant
ENSMMUG000000012053	Not significant
ENSMMUG000000013741	Not significant
ENSMMUG000000016232	Not significant
ENSMMUG000000018317	Not significant
ENSMMUG000000018327	Not significant
ENSMMUG000000028816	Not significant
ENSMMUG000000029087	Not significant
ENSMMUG000000029772	Not significant
ENSMMUG000000029877	Not significant
ENSMMUG000000030006	Not significant
ENSMMUG000000037991	Not significant
ENSMMUG000000038017	Not significant
ENSMMUG000000038317	Not significant
ENSMMUG000000038434	Not significant
ENSMMUG000000039867	Not significant
ENSMMUG000000040340	Not significant
ENSMMUG000000040356	Not significant
ENSMMUG000000041097	Not significant

ENSMMUG00000041166	Not significant
ENSMMUG00000041546	Not significant
ENSMMUG00000041658	Not significant
ENSMMUG00000042228	Not significant
ENSMMUG00000043299	Not significant
ENSMMUG00000043726	Not significant
ENSMMUG00000043811	Not significant
ENSMMUG00000044222	Not significant
ENSMMUG00000045642	Not significant
ENSMMUG00000045910	Not significant
ENSMMUG00000046069	Not significant
ENSMMUG00000046257	Not significant
ENSMMUG00000047628	Not significant
ENSMMUG00000047929	Not significant
ENSMMUG00000047940	Not significant
ENSMMUG00000048804	Not significant
ENSMMUG00000049186	Not significant
ERMP1	Not significant
F12	Not significant
FAM102B	Not significant
FAR2	Not significant
FCER1G	Not significant
FCGBP	Not significant
FECH	Not significant
FNIP2	Not significant
FSIP1	Not significant
GCNA	Not significant
GDPD3	Not significant
GPR21	Not significant
GPR34	Not significant
GPR88	Not significant
GTF2E1	Not significant
GTF2H4	Not significant
HEATR9	Not significant
HES4	Not significant
HGD	Not significant
HIC1	Not significant
HPS6	Not significant
HTRA4	Not significant
IL12RB1	Not significant
INIP	Not significant
IPO13	Not significant
ITGA9	Not significant
ITLN1	Not significant
KANSL3	Not significant

KATNB1	Not significant
KIR2DL4	Not significant
KLHL29	Not significant
KRT23	Not significant
LARS2	Not significant
LATS2	Not significant
LIMD1	Not significant
LIPC	Not significant
LRRC20	Not significant
LRRC43	Not significant
LSM5	Not significant
MAMU-KIR	Not significant
MBD5	Not significant
MICB	Not significant
MICU3	Not significant
MMAA	Not significant
MMRN1	Not significant
MON1B	Not significant
MRC2	Not significant
MXD1	Not significant
MYO1D	Not significant
NAT1	Not significant
NCAM1	Mono late down
NEK10	Not significant
NEXN	Not significant
NUAK1	Not significant
ORAI2	Not significant
OSBPL5	Not significant
PAAF1	Not significant
PAEP	Not significant
PARD6A	Not significant
PC	Not significant
PDGFD	Not significant
PDGFRB	Not significant
PECR	Not significant
PGS1	Not significant
PIF1	Not significant
PIGP	Not significant
PLXNA2	Not significant
PLXND1	Not significant
POLDIP3	Not significant
PRKD1	Not significant
PRR5L	Not significant
PTAR1	Not significant
PTPN7	Not significant

RAB27B	Not significant
RAB40AL	Not significant
RAD21L1	Not significant
RFX1	Not significant
RNF165	Not significant
RNF170	Not significant
ROR2	Not significant
RPRD1B	Not significant
RUSC1	Not significant
SDSL	Not significant
SERAC1	Not significant
SERPINE2	Not significant
SH2B1	Not significant
SH2D1B	Not significant
SH2D4A	Not significant
SH3RF1	Not significant
SIGLEC1	Mono late up
SLA2	Not significant
SLC24A3	Not significant
SLC35E2B	Not significant
SLX1A	Not significant
SMIM10	Not significant
SMIM10L1	Not significant
SMKR1	Not significant
SMYD3	Not significant
SNRPG	Not significant
SRPRB	Not significant
SSX2IP	Not significant
STK16	Not significant
SUSD1	Not significant
TAF1L	Not significant
TBC1D2	Not significant
TBC1D7	Not significant
TDP1	Not significant
TLR3	Not significant
TMEM181	Not significant
TMEM254	Not significant
TMEM38A	Not significant
TMEM67	Not significant
TNFAIP8L2	Not significant
TONSL	Not significant
TRAPPC2L	Not significant
TRIM17	Not significant
TRIM3	Not significant
TRPM8	Not significant

TSPOAP1	Not significant
WIPI1	Not significant
ZBED6CL	Not significant
ZFP64	Not significant
ZNF334	Not significant
ZNF483	Not significant
ZNF544	Not significant
ZNF562	Not significant
ZNF620	Not significant
ZNF658	Not significant
ZNF699	Not significant
ZNF74	Not significant
ZNF749	Not significant
ZNF77	Not significant
ZNF81	Not significant
ZSCAN9	Not significant
AK9	Not significant
ARID3B	Not significant
CHCHD5	Not significant
ENSMMUG00000000324	Not significant
ENSMMUG00000045209	Not significant
IMP3	Not significant
RPUSD4	Not significant
TIAM2	Not significant
ABHD6	Not significant
AIF1	Mono late down
CD14	Not significant
CNGA1	Not significant
DOLPP1	Not significant
EIF1AY	Not significant
ENSMMUG00000004523	Not significant
ENSMMUG00000010128	Not significant
ENSMMUG00000023102	Not significant
ENSMMUG00000029285	Not significant
ENSMMUG00000041861	Not significant
ENSMMUG00000043113	Not significant
ENSMMUG00000045841	Not significant
FAM111B	Not significant
HCCS	Not significant
LRRC40	Not significant
RDH11	Not significant
RF00548	Not significant
S100A2	Mono late up
S100P	Mono late up
SFXN3	Not significant

SPATA1	Not significant
YIF1B	Not significant
ZNF213	Not significant
ZNF721	Not significant
ABCA6	Not significant
ABCC3	Not significant
ABHD2	Not significant
ACER3	Not significant
ACPP	Not significant
ACRBP	Not significant
ACSS2	Not significant
ACVR2A	Not significant
ADA2	Not significant
ADAM28	Mono late up
ADAMDEC1	Mono late up
ADAMTSL4	Not significant
ADAP2	Not significant
ADGRB3	Not significant
ADGRE1	Not significant
ADGRE2	Not significant
ADGRG3	Not significant
ADM	Mono late up
AFG1L	Not significant
AIFM2	Not significant
ALDH1A1	Not significant
ALDH3B1	Not significant
ALOX5	Not significant
AMACR	Not significant
AMDHD1	Not significant
AMDHD2	Not significant
ANKRD22	Mono late up
ANKRD9	Not significant
ANXA3	Mono late up
AQP3	Not significant
AQP9	Not significant
ARAP3	Not significant
ARG2	Not significant
ARHGAP42	Not significant
ARHGAP6	Not significant
ARHGEF10L	Mono late up
ARHGEF40	Not significant
ARL2BP	Not significant
ASAP2	Not significant
ATG7	Not significant
ATP1B1	Not significant

ATP6AP1	Not significant
ATP6V0D1	Not significant
ATP9A	Not significant
AZU1	Mono late up
B3GALNT1	Not significant
B3GALT4	Not significant
B3GNT8	Not significant
BATF3	Not significant
BCL2L14	Not significant
BCL2L15	Not significant
BMX	Not significant
BVES	Not significant
C10H20orf194	Not significant
C15H9orf64	Not significant
C15orf65	Not significant
C19orf38	Not significant
C1H1orf50	Not significant
C1QB	Not significant
C1QC	Not significant
C1orf122	Not significant
C1orf127	Not significant
C1orf162	Not significant
C20orf27	Not significant
C3	Mono late up
C3AR1	Mono late up
C5AR1	Mono early up
CALCRL	Not significant
CAMK1	Not significant
CAMP	Mono late down
CARD9	Mono late down
CASP5	Not significant
CATIP	Not significant
CAVIN3	Not significant
CCDC149	Not significant
CCDC151	Not significant
CCDC152	Mono late down
CCDC189	Not significant
CCL2	Not significant
CCL3	Not significant
CCL8	Not significant
CCR1	Mono early up
CCR2	Not significant
CCS	Not significant
CD163	Mono early up
CD163L1	Not significant

CD177	Mono late up
CD1B	Not significant
CD1D	Not significant
CD300LB	Not significant
CD300LF	Not significant
CD33	Not significant
CD36	Not significant
CD68	Not significant
CD93	Not significant
CDA	Not significant
CDC42BPA	Not significant
CDC42EP4	Not significant
CDKN1C	Not significant
CDKN2B	Not significant
CEBPD	Not significant
CELSR1	Not significant
CEND1	Not significant
CFH	Not significant
CHIT1	Not significant
CISD2	Not significant
CLCN4	Not significant
CLCN5	Not significant
CLEC10A	Not significant
CLEC4A	Not significant
CLEC6A	Not significant
CLEC7A	Not significant
CLMN	Not significant
CLN8	Not significant
CMBL	Not significant
CMKLR1	Not significant
CMTM2	Not significant
CNOT11	Not significant
CNTLN	Not significant
COMMD10	Not significant
COMP	Not significant
CPED1	Not significant
CPNE2	Not significant
CPVL	Mono late down
CRIP1	Not significant
CRISPLD2	Not significant
CRTAP	Not significant
CSF1R	Not significant
CSF2RA	Not significant
CSF3R	Mono early up
CSTA	Mono early up

CTH	Not significant
CUEDC1	Not significant
CXCL1	Not significant
CXCL10	Not significant
CXCL16	Mono late down
CXCL2	Not significant
CXCL3	Not significant
CXHXorf57	Not significant
CYBRD1	Not significant
CYFIP1	Not significant
CYP1B1	Not significant
CYP39A1	Not significant
CYP3A5	Not significant
CYP4V2	Not significant
D2HGDH	Not significant
DAGLB	Not significant
DBT	Not significant
DCN	Not significant
DDR1	Not significant
DERA	Not significant
DES	Not significant
DES1	Not significant
DGAT2	Not significant
DHRS9	Mono late up
DIRC2	Not significant
DISC1	Not significant
DKK2	Not significant
DNASE2	Not significant
DNM1	Not significant
DOCK4	Not significant
DOCK7	Not significant
DPYD	Not significant
DPYSL3	Not significant
DRAM1	Not significant
DYSF	Mono late up
E2F6	Not significant
EGFL7	Not significant
EIF4E	Not significant
EIF5A2	Not significant
EML6	Not significant
EMP1	Not significant
ENPP2	Not significant
ENSMMUG00000000729	Not significant
ENSMMUG00000002513	Not significant

ENSMMUG00000005766	Not significant
ENSMMUG00000006604	Not significant
ENSMMUG00000007560	Not significant
ENSMMUG00000007936	Not significant
ENSMMUG00000008289	Not significant
ENSMMUG00000011569	Not significant
ENSMMUG00000012749	Not significant
ENSMMUG00000013897	Not significant
ENSMMUG00000014404	Not significant
ENSMMUG00000016578	Not significant
ENSMMUG00000016619	Not significant
ENSMMUG00000017246	Not significant
ENSMMUG00000017871	Not significant
ENSMMUG00000018146	Not significant
ENSMMUG00000018408	Not significant
ENSMMUG00000018474	Not significant
ENSMMUG00000019688	Not significant
ENSMMUG00000019939	Not significant
ENSMMUG00000020005	Not significant
ENSMMUG00000020012	Not significant
ENSMMUG00000020155	Not significant
ENSMMUG00000020182	Not significant
ENSMMUG00000020473	Not significant
ENSMMUG00000021876	Not significant
ENSMMUG00000022334	Not significant
ENSMMUG00000029123	Not significant
ENSMMUG00000029821	Not significant
ENSMMUG00000030384	Not significant
ENSMMUG00000032418	Not significant
ENSMMUG00000037682	Not significant
ENSMMUG00000037683	Not significant
ENSMMUG00000037684	Mono late up
ENSMMUG00000037774	Not significant
ENSMMUG00000037831	Not significant
ENSMMUG00000038238	Not significant
ENSMMUG00000038383	Not significant
ENSMMUG00000039160	Not significant
ENSMMUG00000039900	Not significant
ENSMMUG00000040509	Not significant
ENSMMUG00000041076	Not significant
ENSMMUG00000041102	Not significant
ENSMMUG00000041198	Not significant
ENSMMUG00000041249	Not significant
ENSMMUG00000042810	Not significant
ENSMMUG00000043523	Not significant

ENSMMUG00000043877	Not significant
ENSMMUG00000043970	Not significant
ENSMMUG00000044290	Not significant
ENSMMUG00000044652	Mono early up
ENSMMUG00000045046	Not significant
ENSMMUG00000045247	Not significant
ENSMMUG00000045411	Mono late down
ENSMMUG00000045501	Not significant
ENSMMUG00000046296	Not significant
ENSMMUG00000046614	Not significant
ENSMMUG00000046629	Not significant
ENSMMUG00000048321	Not significant
ENSMMUG00000048414	Not significant
ENSMMUG00000049010	Not significant
ENSMMUG00000049230	Not significant
EPB41L3	Not significant
EPHB2	Not significant
ERBB2	Not significant
EREG	Mono early up
ERLIN2	Not significant
F13A1	Mono late up
FAM120AOS	Not significant
FAM122A	Not significant
FAM127A	Not significant
FAM131A	Not significant
FAM151B	Not significant
FAM161B	Not significant
FAM72A	Not significant
FBP1	Not significant
FCAR	Mono early up
FCGR1A	Mono late up
FFAR4	Not significant
FKBP1B	Not significant
FKBP9	Not significant
FLT3	Not significant
FLVCR2	Not significant
FN1	Not significant
FOPNL	Not significant
FOSL1	Not significant
FOXK1	Not significant
FPR1	Mono late up
FPR2	Not significant
FPR3	Not significant
FRRS1	Not significant
G0S2	Mono early up

GAB1	Not significant
GABARAPL2	Not significant
GAS2L1	Not significant
GAS6	Not significant
GDAP2	Not significant
GJB2	Not significant
GLB1L	Not significant
GLRB	Not significant
GLUL	Not significant
GNB4	Not significant
GOLM1	Not significant
GOSR2	Not significant
GPNMB	Not significant
GPR162	Not significant
GPR84	Mono late up
GRB10	Not significant
GSTO1	Not significant
GUCY1A1	Not significant
GUCY1B1	Mono late down
HBEGF	Mono late down
HDHD3	Not significant
HFE	Not significant
HGF	Not significant
HINT3	Not significant
HIST1H2BK	Not significant
HK3	Mono late up
HOMEZ	Not significant
HRH1	Not significant
HRH2	Not significant
HSD17B12	Not significant
HTRA1	Not significant
HYAL2	Not significant
ICA1	Not significant
ID1	Not significant
IDO1	Mono late up
IER5L	Not significant
IFNGR2	Not significant
IFT22	Not significant
IFT81	Not significant
IGF2BP2	Not significant
IGFBP7	Not significant
IGSF6	Mono late down
IL15RA	Not significant
IL1A	Not significant
IL1B	Mono late down

IL1RAP	Not significant
IL1RN	Mono late up
IL6	Not significant
INSR	Not significant
IPMK	Not significant
IRAK3	Not significant
ISCA2	Not significant
JAG1	Not significant
JDP2	Not significant
JOSD2	Not significant
JUP	Not significant
KANK2	Not significant
KBTBD11	Not significant
KCNE3	Not significant
KCNJ15	Not significant
KCNJ2	Not significant
KCNQ1	Not significant
KIF9	Not significant
KLF7	Not significant
KRBA1	Not significant
LACC1	Not significant
LAMB2	Not significant
LAMC1	Not significant
LARGE1	Not significant
LCN2	Not significant
LDLRAD3	Mono early up
LIAS	Not significant
LILRA2	Not significant
LILRA3	Mono early up
LILRA5	Not significant
LILRA6	Not significant
LILRB5	Not significant
LLPH	Not significant
LMF1	Not significant
LPCAT2	Not significant
LRP1	Mono late down
LRP11	Not significant
LRRC4	Not significant
LRRC75A	Not significant
LTB4R	Not significant
LTBR	Not significant
LYRM4	Not significant
LYSMD2	Not significant
MAATS1	Not significant
MAFB	Not significant

MAK	Not significant
MANBA	Not significant
MAOA	Not significant
MBTPS2	Not significant
MCEMP1	Mono late up
MCTP1	Not significant
MEFV	Mono late down
MEGF9	Not significant
METTL1	Not significant
MGST1	Not significant
MICALL2	Not significant
MIDN	Not significant
MITF	Not significant
MLF1	Not significant
MMP1	Not significant
MMP19	Not significant
MPEG1	Not significant
MPO	Mono late up
MPP5	Not significant
MR1	Not significant
MRC1	Not significant
MS4A4A	Not significant
MS4A4E	Mono late up
MS4A6A	Mono late up
MSR1	Not significant
MSRA	Not significant
MT1E	Not significant
MTSS1L	Not significant
MTURN	Not significant
MYOF	Mono late up
NACC2	Not significant
NAGA	Not significant
NAIP	Not significant
NANP	Not significant
NAPRT	Not significant
NAXD	Not significant
NCEH1	Not significant
NCKIPSD	Not significant
NECAP1	Not significant
NFE2	Mono late up
NGFR	Not significant
NHEJ1	Not significant
NLRP12	Not significant
NLRP3	Not significant
NMRK1	Not significant

NOCT	Not significant
NPL	Not significant
NPTX2	Not significant
NRG1	Not significant
NRP1	Not significant
NUDT13	Not significant
NUDT7	Not significant
NUPR1	Not significant
OAF	Not significant
OLR1	Not significant
OSM	Mono early up
P2RX4	Not significant
P2RY1	Not significant
P2RY12	Not significant
P2RY13	Not significant
P2RY2	Not significant
P2RY6	Not significant
PADI4	Not significant
PAK1	Not significant
PAQR7	Not significant
PAXX	Not significant
PBLD	Not significant
PDE8B	Not significant
PDSS1	Not significant
PELI3	Not significant
PEX13	Not significant
PGPEP1	Not significant
PHLDA2	Not significant
PID1	Mono early down
PIGB	Not significant
PILRA	Mono late down
PISD	Not significant
PKIB	Not significant
PKP4	Not significant
PLA1A	Not significant
PLA2G12A	Not significant
PLA2G4A	Not significant
PLA2G7	Not significant
PLAU	Not significant
PLAUR	Mono early up
PLCB3	Not significant
PLCD1	Not significant
PLLP	Not significant
PLOD1	Not significant
PLPPR2	Not significant

PLVAP	Mono late down
PLXDC2	Not significant
PMP22	Not significant
PNP	Not significant
PON2	Not significant
POPDC3	Not significant
PPARGC1B	Not significant
PPFIA4	Not significant
PPM1H	Not significant
PPM1L	Not significant
PRKRIP1	Not significant
PRRG4	Mono early up
PRX	Not significant
PSTPIP2	Mono late up
PTGER2	Mono early up
PTGES	Not significant
PTGIR	Not significant
PTGS2	Mono late down
PTPRO	Not significant
PXMP2	Not significant
PYGL	Mono early up
QPCT	Mono early up
RAB13	Mono late up
RAB39A	Not significant
RAB3D	Not significant
RAB7B	Not significant
RAP2B	Not significant
RASL10A	Mono late down
RBKS	Not significant
RCVRN	Not significant
REC114	Not significant
RENBP	Not significant
REPS2	Not significant
RF00004	Not significant
RF00020	Not significant
RHEX	Not significant
RIN2	Mono late up
RNASE1	Not significant
RNASE2	Not significant
RNASE3	Not significant
RNF135	Not significant
RNF175	Not significant
ROBO2	Not significant
RPIA	Not significant
RRAGD	Not significant

RXRA	Not significant
S100A12	Not significant
SAC3D1	Not significant
SAR1B	Not significant
SASH1	Not significant
SCAMP5	Mono late down
SCIN	Not significant
SCN1B	Not significant
SCOC	Not significant
SDC2	Not significant
SDC3	Mono late up
SDHAF3	Not significant
SECTM1	Not significant
SELENOT	Not significant
SERPINB10	Mono early up
SERPINB2	Not significant
SERPINE1	Not significant
SERPING1	Not significant
SESTD1	Not significant
SETD9	Not significant
SH2B2	Not significant
SH3D21	Not significant
SHTN1	Mono early up
SIGLEC11	Not significant
SIGLEC12	Not significant
SIGLEC9	Not significant
SIRPB2	Not significant
SLAMF9	Not significant
SLC12A7	Not significant
SLC16A6	Not significant
SLC22A15	Not significant
SLC22A4	Not significant
SLC25A16	Not significant
SLC26A11	Not significant
SLC2A14	Not significant
SLC2A5	Mono late up
SLC2A8	Not significant
SLC30A1	Not significant
SLC31A1	Not significant
SLC35F5	Not significant
SLC44A3	Not significant
SLC46A1	Not significant
SLC46A2	Not significant
SLC47A1	Not significant
SLC5A10	Not significant

SLC7A7	Not significant
SLC8A1	Not significant
SLC8B1	Not significant
SLFN11	Not significant
SMAD1	Not significant
SNAPC1	Not significant
SNX24	Not significant
SORD	Not significant
SPAG1	Not significant
SPHK1	Not significant
SPRED1	Not significant
SRC	Not significant
SREBF1	Not significant
ST7	Not significant
STAB1	Not significant
STAC3	Not significant
STEAP4	Not significant
STK19	Not significant
SUCNR1	Mono late up
SULF2	Not significant
TBC1D8	Not significant
TBXAS1	Not significant
TCF7L1	Not significant
TCF7L2	Not significant
TFPI	Not significant
TFPI2	Not significant
TGFBI	Mono late down
THAP10	Not significant
THBD	Not significant
THBS1	Not significant
THEMIS2	Not significant
TICAM1	Not significant
TKTL1	Not significant
TLR2	Mono early up
TLR4	Not significant
TLR5	Not significant
TLR8	Not significant
TMEM128	Not significant
TMEM184B	Not significant
TMEM218	Not significant
TMEM51	Not significant
TMEM86A	Not significant
TMLHE	Not significant
TMPRSS3	Not significant
TMX2	Not significant

TNFAIP2	Not significant
TNFAIP6	Not significant
TNFRSF21	Not significant
TOMM5	Not significant
TPP1	Not significant
TPPP3	Not significant
TRAM2	Not significant
TREM1	Not significant
TRIM36	Not significant
TRIM55	Not significant
TRPM2	Not significant
TRPM6	Not significant
TSKS	Not significant
TSPAN4	Not significant
TST	Not significant
TTC39B	Not significant
TTYH2	Not significant
TWIST2	Not significant
UAP1L1	Not significant
UBE2E3	Not significant
UNC13B	Not significant
USHBP1	Not significant
VDR	Not significant
VMO1	Mono late down
VNN1	Not significant
VSIR	Not significant
VSTM1	Not significant
WDFY3	Not significant
WLS	Not significant
WWC1	Not significant
WWC2	Not significant
XPR1	Not significant
YBX3	Mono late down
YIPF4	Not significant
ZBTB47	Not significant
ZCCHC24	Not significant
ZCWPW1	Not significant
ZFHX3	Not significant
ZNF117	Not significant
ZNF503	Not significant
ZNF516	Not significant
ZNF593	Not significant
ZNF784	Not significant
ZNF823	Not significant
ZNRF2	Not significant

A2M	Not significant
ABCA3	Not significant
ABT1	Not significant
ACER2	Not significant
ACKR1	Not significant
ACOD1	Not significant
ACVRL1	Not significant
AGPAT2	Not significant
AK3	Not significant
AKR7A2	Not significant
ALPL	Not significant
ANLN	Not significant
APH1A	Not significant
APLF	Not significant
APOD	Not significant
ARF1	Not significant
ARHGAP17	Not significant
ARMC5	Not significant
ASAP3	Not significant
ATP6V1A	Not significant
B3GLCT	Not significant
BAMBI	Not significant
BCORL1	Not significant
BGLAP	Not significant
BMT2	Not significant
BNIP3	Not significant
BORCS8	Not significant
BTBD9	Not significant
C16H17orf62	Not significant
C1orf198	Not significant
C7orf49	Not significant
CALML6	Not significant
CAV2	Not significant
CCDC30	Not significant
CCDC51	Not significant
CD59	Not significant
CDC45	Not significant
CDCA8	Not significant
CEBPE	Not significant
CENPI	Not significant
CENPO	Not significant
CIAPIN1	Not significant
CKB	Not significant
CLEC1B	Not significant
CLEC4D	Not significant

CLEC4E	Not significant
CLU	Mono late up
CLUH	Not significant
COMMD2	Not significant
COQ10B	Not significant
CPT2	Not significant
CRLS1	Not significant
CTPS2	Not significant
CTTNBP2	Not significant
CXCR1	Not significant
CYB561D2	Not significant
CYP2J2	Not significant
DACH1	Not significant
DCK	Not significant
DEPDC1	Not significant
DGKH	Not significant
DHRS7B	Not significant
DHX34	Not significant
DIAPH3	Not significant
DLEU7	Not significant
DNAJA3	Not significant
DNAJC5	Not significant
DOLK	Not significant
DZIP1L	Not significant
E2F8	Not significant
ECT2	Not significant
EFHC1	Not significant
EFNB1	Not significant
EIF2B2	Not significant
EIF4EBP2	Not significant
ELANE	Not significant
ELOVL1	Not significant
ENDOV	Not significant
ENSMMUG00000000436	Not significant
ENSMMUG00000000502	Not significant
ENSMMUG00000001214	Not significant
ENSMMUG00000004421	Not significant
ENSMMUG00000004924	Not significant
ENSMMUG00000005624	Not significant
ENSMMUG00000006332	Not significant
ENSMMUG00000007420	Not significant
ENSMMUG00000009500	Not significant
ENSMMUG00000011452	Not significant
ENSMMUG00000011897	Not significant
ENSMMUG00000012016	Not significant

ENSMMUG00000013093	Not significant
ENSMMUG00000013496	Not significant
ENSMMUG00000014412	Not significant
ENSMMUG00000014526	Not significant
ENSMMUG00000014733	Not significant
ENSMMUG00000016538	Not significant
ENSMMUG00000016730	Not significant
ENSMMUG00000017115	Not significant
ENSMMUG00000018103	Not significant
ENSMMUG00000018491	Not significant
ENSMMUG00000019477	Not significant
ENSMMUG00000019733	Not significant
ENSMMUG00000021023	Not significant
ENSMMUG00000021622	Not significant
ENSMMUG00000029091	Not significant
ENSMMUG00000030473	Not significant
ENSMMUG00000031200	Not significant
ENSMMUG00000031761	Not significant
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ENSMMUG00000038291	Not significant
ENSMMUG00000038299	Not significant
ENSMMUG00000039068	Not significant
ENSMMUG00000039665	Not significant
ENSMMUG00000039668	Not significant
ENSMMUG00000039909	Not significant
ENSMMUG00000039965	Not significant
ENSMMUG00000040085	Not significant
ENSMMUG00000040152	Not significant
ENSMMUG00000040282	Not significant
ENSMMUG00000040347	Not significant
ENSMMUG00000040835	Not significant
ENSMMUG00000040867	Not significant
ENSMMUG00000041008	Not significant
ENSMMUG00000041182	Not significant
ENSMMUG00000041459	Not significant
ENSMMUG00000041724	Not significant
ENSMMUG00000042421	Not significant
ENSMMUG00000042439	Not significant
ENSMMUG00000042522	Not significant
ENSMMUG00000042997	Not significant
ENSMMUG00000043022	Not significant
ENSMMUG00000043517	Not significant
ENSMMUG00000043826	Not significant
ENSMMUG00000043947	Not significant
ENSMMUG00000044009	Not significant

ENSMMUG00000045567	Not significant
ENSMMUG00000045702	Not significant
ENSMMUG00000045915	Not significant
ENSMMUG00000046115	Not significant
ENSMMUG00000046231	Not significant
ENSMMUG00000046605	Not significant
ENSMMUG00000047404	Not significant
ENSMMUG00000047543	Not significant
ENSMMUG00000048831	Not significant
ENSMMUG00000049158	Not significant
EPHX4	Not significant
ESAM	Not significant
ESCO2	Not significant
ESPL1	Not significant
ETNK1	Not significant
FAM109A	Not significant
FAM114A1	Not significant
FAM118B	Not significant
FAM120C	Not significant
FAM213B	Not significant
FAM217A	Not significant
FAM50B	Not significant
FAM8A1	Not significant
FBXW9	Not significant
FFAR2	Not significant
FLT1	Not significant
FUT7	Not significant
GATA2	Not significant
GCH1	Not significant
GDPD5	Not significant
GEMIN2	Not significant
GIN51	Not significant
GIN53	Not significant
GLT1D1	Not significant
GMPR	Not significant
GPATCH3	Not significant
GSDME	Not significant
GSTCD	Not significant
H1FO	Not significant
HACD1	Not significant
HIBADH	Not significant
HIF1AN	Not significant
HIST1H2BH	Not significant
HIST1H2BJ	Not significant
HIST1H4J	Not significant

HSD11B1	Not significant
HSPA4L	Not significant
HSPB1	Not significant
HYAL3	Not significant
ICAM1	Not significant
IGFBP6	Not significant
IL1R1	Not significant
IL1R2	Not significant
IL4I1	Not significant
INTS14	Not significant
IQCD	Not significant
ITGA2B	Not significant
ITGB3BP	Not significant
KCTD3	Not significant
KDELC2	Not significant
KIAA0513	Not significant
KIF20A	Not significant
KLHDC10	Not significant
L1TD1	Not significant
LILRB4	Not significant
LXN	Not significant
MAB21L3	Not significant
MAG	Not significant
MAP1S	Not significant
MARCO	Mono late up
MED20	Not significant
MEIS3	Not significant
MELK	Not significant
MERTK	Not significant
METTL7B	Not significant
MGAM	Not significant
MIXL1	Not significant
MMP8	Not significant
MMP9	Not significant
MORN2	Not significant
MPDU1	Not significant
MRPL18	Not significant
MRVI1	Not significant
MS4A3	Not significant
MS4A6E	Not significant
MSRB2	Not significant
MT1JP	Not significant
MT1M	Not significant
MYL4	Not significant
MYO7A	Not significant

NAGPA	Not significant
NEK2	Not significant
NFIA	Not significant
NOSTRIN	Not significant
NQO1	Not significant
NR2F6	Not significant
NREP	Not significant
NRP2	Not significant
ORAOV1	Not significant
OTUB2	Not significant
P3H1	Not significant
PACRGL	Not significant
PARPBP	Not significant
PCBD2	Not significant
PEX26	Not significant
PEX3	Not significant
PF4V1	Not significant
PGLYRP1	Not significant
PGRMC1	Not significant
PHF5A	Not significant
PIGN	Not significant
PIR	Not significant
PKMYT1	Not significant
PLD1	Not significant
PLEKHB2	Not significant
PLEKHH3	Not significant
PNPO	Not significant
PON3	Not significant
PPIC	Not significant
PPME1	Not significant
PPP1R26	Not significant
PPP2R3B	Not significant
PRIM2	Not significant
PRKAB2	Not significant
PROK2	Not significant
PRRC1	Not significant
PRTN3	Not significant
PTGDR2	Not significant
PTPN18	Not significant
PTS	Not significant
PXN	Not significant
R3HDM4	Not significant
RABL3	Not significant
RAD51AP1	Not significant
RAMP2	Not significant

RASGRP4	Not significant
RCBTB2	Not significant
RIN1	Not significant
RMDN2	Not significant
RMI1	Not significant
RNASE10	Not significant
RPE	Not significant
RRP7A	Not significant
RUNDC1	Not significant
S100A3	Not significant
SDHAF4	Not significant
SELP	Not significant
SFT2D2	Not significant
SFXN1	Not significant
SFXN4	Not significant
SGO1	Not significant
SH3PXD2B	Not significant
SHROOM3	Not significant
SHROOM4	Not significant
SKA1	Not significant
SKA3	Not significant
SLC12A9	Not significant
SLC1A3	Not significant
SLC24A1	Not significant
SLC35A1	Not significant
SLCO2B1	Not significant
SLCO4A1	Not significant
SMPD3	Not significant
SMUG1	Not significant
SNAPC3	Not significant
SNAPC5	Not significant
SNAPIN	Not significant
SNX30	Not significant
SPATA2L	Not significant
SPATC1	Not significant
SPPL2B	Not significant
SSNA1	Not significant
ST14	Not significant
STARD8	Not significant
STEAP3	Not significant
STOM	Not significant
STRADB	Not significant
SUV39H2	Not significant
SWSAP1	Not significant
TBC1D10B	Not significant

TCEAL9	Not significant
TGM2	Not significant
TIFAB	Not significant
TIPIN	Not significant
TLDC1	Not significant
TM4SF19	Not significant
TMA16	Not significant
TMEM11	Not significant
TMEM138	Not significant
TMEM53	Not significant
TMIGD3	Not significant
TNIP3	Not significant
TOR3A	Not significant
TP53I11	Not significant
TPRA1	Not significant
TREML1	Not significant
TRIP10	Not significant
TROAP	Not significant
TSPAN13	Not significant
TTC30A	Not significant
TTC7B	Not significant
TTK	Not significant
TUFT1	Not significant
TYMS	Not significant
UACA	Not significant
UBE3D	Not significant
UCN	Not significant
VKORC1L1	Not significant
VPS9D1	Not significant
VWF	Not significant
WDR53	Not significant
WNT5A	Not significant
ZBTB45	Not significant
ZC4H2	Not significant
ZDHHC14	Not significant
ZER1	Not significant
ZFYVE1	Not significant
ZNF133	Not significant
ZNF311	Not significant
ZNF558	Not significant
ZNF583	Not significant
ZNF598	Not significant
ZNF670	Not significant
ZNF701	Not significant
ZNRF1	Not significant

ZSWIM1	Not significant
ZWINT	Not significant
ABHD11	Not significant
ACO1	Not significant
ASB7	Not significant
BATF2	Not significant
BHLHB9	Not significant
BUB1B	Not significant
C12H2orf88	Not significant
CACNB1	Not significant
CCDC121	Not significant
CCL23	Not significant
CCRL2	Not significant
CCT6B	Not significant
CD276	Not significant
CDC25C	Not significant
CENPQ	Not significant
CP	Not significant
CYB5R2	Not significant
DAAM2	Not significant
DGCR2	Not significant
DNAJC28	Not significant
ECHDC3	Not significant
ENSMMUG00000000749	Not significant
ENSMMUG000000005980	Not significant
ENSMMUG000000010025	Not significant
ENSMMUG000000010157	Not significant
ENSMMUG000000012717	Not significant
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ENSMMUG000000040343	Not significant
ENSMMUG000000042838	Not significant
ENSMMUG000000045983	Not significant
ENSMMUG000000046953	Not significant
ENSMMUG000000047049	Not significant
EPHA2	Not significant
ETV5	Not significant
ETV7	Not significant
FAHD1	Not significant
FAM129B	Not significant
FAM200A	Not significant
FAM92A	Not significant
FILIP1L	Not significant
FIZ1	Not significant

FMN1	Not significant
FOLR2	Not significant
FUNDC1	Not significant
GBE1	Not significant
GIN54	Not significant
GLDN	Not significant
GLYCTK	Not significant
GNAZ	Not significant
HAPLN3	Not significant
HOXA10	Not significant
IL20RB	Not significant
INTU	Not significant
ITGB1BP2	Not significant
ITIH4	Not significant
KCTD13	Not significant
KLHL13	Not significant
LTBP1	Not significant
LYRM2	Not significant
MORC4	Not significant
MYH14	Not significant
MYLK	Not significant
NEB	Not significant
NEIL3	Not significant
NSUN6	Not significant
PEX10	Not significant
PIGM	Not significant
PLA2G2D	Not significant
POLE2	Not significant
PRSS21	Not significant
RBFox2	Not significant
RHBDD3	Not significant
RNF25	Not significant
SCARB1	Not significant
SENP8	Not significant
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SHQ1	Not significant
SLC7A8	Not significant
SLITRK4	Not significant
SPACA9	Not significant
STARD13	Not significant
STOML1	Not significant
TCEAL4	Not significant
TCP11L1	Not significant
TEDC2	Not significant
TMEM171	Not significant

TMEM220	Not significant
TREM2	Not significant
TTC8	Not significant
UHRF1BP1	Not significant
YIPF6	Not significant
ZNF189	Not significant
ZNF20	Not significant
ZNF415	Not significant
ZNF71	Not significant