

# ALL UP-REGULATED GENES

Covid19	Hypertension	Diabetes	Obesity	LungCancer
IL1B	GSTM1	CES1	SPP1	CDCA8
IL1A	AOC1	TCF19	CDKN2B	MELTF
CCL20	MRM1	SMN1	TNMD	CCNF
CEACAM7	DIO2	HLA-DRB3	LEP	E2F2
CSF3	SERPINA3	OVOS2	RPP21	GPR61
CXCL8	PADI1	NCR3	LILRB4	VGf
INHBA	PLAC8	ALAS2	CHIT1	STIL
OVOS2	NOTUM	SMOX	LRRC37A	CDKN2C
DUOXA2	HLA-DRB5	KRT18	MSR1	MCM4
MT2A	NOG	VPS52	CRYAB	MIR130B
SERPINE1	IGFBP1	KLF1	TM4SF19	CDKN2A
SPRR2F	EGLN3	CA1	SRPX2	TNFRSF13C
CXCL5	HLA-G	IGLV2-11	NPR3	FOXD3-AS1
TCIM	KRT16P6	MARCO	LOC101929726	ZBTB8B
SLC26A4	HCAR2	GFUS	MRPL45	MAPK8IP2
C1QTNF1	HLA-C	KRT1	DMTN	MANEAL
DEFB4A	CHRD1	T6GALNAC	STC2	RRM2
SERPINA3	LAIR2	IGHD	HOXC8	BICDL1
CXCL2	MATN1	SELENBP1	CTSS	TUBB3
ADAM19	FN1	IGLV7-43	APBB1IP	DTYMK
CXCL3	CHI3L2	HBQ1	ADA2	SAPCD2
C15orf48	FSTL3	LYNX1	HLA-DMB	MRT04
LIF	MMP12	HLA-DRA	SNCG	SLC29A4
CXCL10	ASCL2	KNDC1	GPI	PAFAH1B3
WNT7A	BIRC7	KLC3	TRIM67	HIST2H3A
SPRR2A	PPIAP46	PI16	TRIM26	HIST2H3C
ALPL	HSPA1B	TUBB6	FAT2	MIR924HG
SPRR2D	SPHK1	MAGI2-AS3	HLA-DRA	ZDHHC22
CXCL1	CGB2	KANK1	HSPA1A	AP3B2
COL22A1	PNCK	PLEK2	SAA1	KCNH7
XDH	TRIM14	IGLV1-51	HOXC6	WNK2
PLAU	RBP4	IGLV7-46	CES1P1	GNRH2
GDF15	KIF12	CCL23	ANGPTL4	SEPT3
TNFRSF6B	COL17A1	TMOD1	CD209	NEK2
CFB	VEGFA	SGIP1	FCGR2B	FEN1
IL23A	LOC102724788	FRMD6	MSC	C21orf58
PLAUR	GCSH	LYPD2	AADACL3	TRIM9
IDO1	SLC6A8	ACP5	AQP4	HIST1H1B
DEFB4B	PRKX	CYP2S1	IRF8	PPM1E
PDGFB	JPT1	ARHGEF37	FPR3	TACC3
IL36G	TRIM64B	RETN	ITGB2	SUPT16H
SLC5A1	PKD1L1	LINC01954	CD68	CELSR3
RHCG	FAT2	SLC2A1-AS1	CCDC3	CHAF1A
KLK6	IL1R2	SLC12A3	CTSB	BRI3BP
TNFAIP3	HK2	PLAAT1	LOXL2	PLEKHG4B
PRSS22	TRIM67	HLA-B	NQO1	MELTF-AS1
IER3	OMD	GLRX5	MYEOV	FBXO41
BPGM	KRT17	KIAA0408	FCGBP	HIST1H2AM

MX1	SCARA5	ANKRD9	CCND1	SRCIN1
DEPP1	LY6K	PCDH12	LGMN	PCNX2
MMP7	ADORA2A	LGALS3	ITIH5	BRSK1
SAA2	TIMP3	TREML1	ZFAT	CDK1
SAA1	TCF19	TPPP3	TBX18	CAMK2N2
TYMP	LIF	CACNA1I	C1QC	TSPO2
IFITM1	PAEP	RPL9	MMP7	SPC24
MAFF	HOXA7	GMPR	EXO1	SLCO5A1
MMP9	HLA-A	IC1053761	SLC37A2	CELF4
KYNU	BHLHE40	C4A	CHI3L1	ATP8A2
ITGA5	CXCL8	GPR146	PLAC9	CECR3
ISG15	IGKC	RUNDC3A	WISP2	BDH1
RAC2	GNLY	C20orf27	HLA-DRB3	ASXL3
KRT7	CXCR6	MYL4	MMP9	MEX3B
UBD	SFRP1	BLVRB	ACP5	FBXO5
DUOX2	PRG2	IGKV4-1	CD14	TMEM178B
NT5E	HCAR3	HLA-DQA1	ITGB5	DRD2
CXCL6	CNR1	IGLV3-25	KYNU	PKMYT1
ICAM1	NTRK2	IGLV1-36	CCL18	TMEM200C
CYB5R2	ARHGEF4	MFSD2B	HOXC9	NOVA1
POU2F2	F2R	RRAS	MPEG1	ASRGL1
L1CAM	BRINP2	NEBL	SYNPO	GAD1
CST6	CILP	IGLV3-19	AKR1C3	FRMD5
RFTN1	VIT	DMAC1	HSPA1B	USH1C
NFKBIA	MMP10	TRAV8-1	DMRT3	TONSL
C3	LOX	IGKV2D-30	PLIN4	CENPL
GAS6	SYT8	IGKV3D-15	MS4A6E	FAM57B
SEMA7A	ITGAD	DPM2	IL1RN	MNX1
CYP27A1	LDHA	TRBV11-1	TUBB2A	MCM2
PTGS2	UBASH3B	EPB42	F13A1	SIX4
BCL2A1	ANKRD22	HBD	RHOXF1	MCIDAS
BEAN1	APOBEC3H	FAM221B	ALDOB	KCNG3
TNIP1	DCD	EMC3	LOC653786	ADPRHL1
LCN2	TNNI2	PF4	CSMD1	TIGD3
CXCL11	MTHFD1L	AHSP	HLA-DPB1	TRIM36
MX2	CDHR1	RHD	KLHL30	UHRF1
IFI6	SESTD1	MPV17L2	C1QA	LOC101929759
SLC7A2	FUT3	YBX3	CCDC162P	HIST1H3I
STC2	PCBP3	TBILA	A4GNT	FAM95C
CSTB	TENM4	IGLV2-14	RASA3	RUNDC3A
FDCSP	RXFP1	TEKT4P2	FFAR3	STMN3
CMPK2	MEDAG	IGLV2-23	FOLR2	E2F7
HIST2H2AA	SLC1A6	C12orf45	SYNC	BSN
BMP2	HLA-B	KCNH3	LINC00645	NPTXR
HBEGF	PKD1L2	NTAN1	IFI30	CEP78
ZC3H12A	WT1	CAMP	PPP1R18	HIST1H2AG
SLCO4A1	SH3BP5	LINC01624	PBX2	FANCA
KISS1	CITED2	ZP3	KRTAP13-4	ORC1
CDA	ARC	RAP1GAP	NRP2	APLP1
MELTF	C3	VMO1	SYK	ST18

PTPRH	EPCAM	OSBP2	CD74	KSR2
RSAD2	S100A14	PTENP1	HLA-DRB4	SLC45A2
PTAFR	PPT2	B9D1	SERINC2	NRXN1
IFI27	GBP1	NCR1	HLA-C	SCN8A
SLC39A8	VSTM2L	KLHL30	SLC35C1	GNG4
IFI44L	TMEM45A	TUBA8	LAMB3	LOC101927989
PARM1	SERPINE1	SNHG5	SLAMF9	UCHL1
NOXO1	AMZ1	SMIM1	ARL11	NDUFA4L2
CHAC1	TLE6	CBSL	PKD2L1	TFR2
FSTL3	SIT1	TUBB2A	IGSF6	RFC2
IL32	TNFAIP6	PCCA-DT	APOC2	SNAP25
MSC	PRL	DEPDC1	DNASE2B	LINC01441
IFIT3	CLDN19	SLC14A1	LINC01494	CAVIN4
HLA-B	TAC3	CHPT1	HLA-DQA1	SYN1
HERC6	GPRC5A	ROCK1P1	EN1	CPT1C
SLC2A6	MME	ERFE	ADAM12	ITGB3BP
HLA-F	THBS2	PF4V1	C1orf198	CSMD2
KLK5	UPK1B	TSHZ2	HOXC5	LINC00665
TUBB3	ABLIM2	AVPR1A	KCNJ5	FADS1
FEZ1	VTCN1	PPP1R17	LINC00334	PHF21B
ARL4C	CCL20	IGLV10-54	IGSF1	XKR7
HDAC9	AQP1	FHIT	PPP1R11	CRYBA2
ZG16B	TCF7L2	IGLC2	AOC1	KCNH6
KLHDC7B	CHL1	TTC25	MGAT3	GPT2
LAMC2	CORO2A	SPDYC	TLCD2	B4GALNT1
CSF2	CPVL	TFPI	CD248	PRR36
DUSP5	AFAP1	SLC22A13	MRC1	KCNIP3
XAF1	HILPDA	USP44	TNIP1	MSI1
G0S2	TTN	MPP3	FOPNL	CHD5
IFI35	MICAL3	TAL1	PLEK	C1QL1
CTGF	ERRFI1	SLC4A1	GNG2	NDUFAF6
THEMIS2	FLJ16779	IGF2BP2	ADRA2A	MAST1
PI3	ISM2	FAM86C1P	RNF17	INCENP
TFPI2	MGAT4C	ZNF385C	HOXC-AS1	RAB30-AS1
NTM	PATJ	SLC5A5	LCP1	PIGX
TNFAIP2	ASPHD2	ANG	CES1	BEND5
GBP5	MTND1P23	NDUFA6	ITGAM	KIF18B
GGT1	SLC2A3	EIF4EBP1	SEMA3G	ATP6V0E2
CYR61	AGXT	PPBP	C1QB	GEN1
NCF2	SCD	FAM210B	LBP	NXPH4
TMEM92	TIMP1	IGKC	LINC02227	SNORA11D
EBI3	IGFBP6	COL23A1	CCL19	SNORA11E
ODAPH	ARL4D	LIPE-AS1	MRAP	MYO3A
SLC13A5	ACE	HEPACAM2	WDPCP	CELSR2
SPRR2E	TMEM239	RNASE3	TREM2	UBE2T
OAS2	PRH1	RYR1	ABHD11-AS1	ZNF397
TNIP3	HLA-DQA1	HBA1	ARHGDIG	LYG1
EDN1	NDUFB4P11	IRGM	CLEC10A	LYPD6
SAA2-SAA4	FAM43B	FBXL16	SPI1	CDC6
PRRX2	CD38	CAMK1	TYROBP	ADCY1

ADAM8	OXTR	TRAV40	POPDC3	LINC01460
TSPAN2	CHRD12	LINC02381	IL25	NCAPG2
EPS8L3	AADAC	LAMB2	LOC105376527	HIST1H3H
CD177	NKAIN4	TPTEP1	MSTO1	SIX1
RASD2	ZFP57	LOC10192771	DDX39B	FOXRED1
IRF7	PYCR1	SLC38A5	LY86	MEP1B
ADORA2A	CAB39L	HKDC1	ST14	PFN2
IFITM3	DDIT4	CDS1	EPDR1	LINC01572
APOBEC3A	MMP19	NBL1	ALDH4A1	MTCL1
MTHFD2	FOSL2	RNASE1	LAPTM5	CKMT1B
SSC4D	CPB1	OLR1	PALMD	SPIRE2
FTH1	IGSF10	ICAM4	ATP6V0D2	WDR88
PRSS1	LINC01068	LY6G6F	TEX26	ZFHX2-AS1
GCGR	SLPI	MZB1	TTYH1	SBK1
VNN1	KCNK12	TRAV6	PTAFR	TUBA3D
IFIT1	OXGR1	UPK3A	LGALS9	CEP131
TRIB3	GREB1	GPBAR1	ALAS1	ZNF544
GPR176	PRDM1	DNAI4	ZBED3	C17orf78
SMOC1	SEPTIN3	TRBV10-1	LAIR1	CBX2
OAS3	SIK1B	FAH	LYZ	BHLHB9
SERPINB7	TRIM71	ANXA8	HAVCR2	UNC79
RND1	ABI3BP	EPHA10	SSTR5-AS1	FOXN4
VNN3	AADACL3	NKPD1	C5orf30	C1orf216
RNASE7	GFUS	ACVRL1	CTS2	CDK5R1
MICA	MTCO1P12	IGHV1-3	UCHL1	DOLPP1
ISG20	ENO2	SMIM5	FCGR3A	DTNA
TINAGL1	C11orf96	POLR2I	IGSF21	ATCAY
NES	MYCN	SNHG9	HCK	RNF157-AS1
SLC7A7	BHMT2	GUSBP1	PIK3C2B	NUP62
PDZK1IP1	ANO9	OLIG1	ADM	TMEM186
TRIM31	HSPH1	SFTPB	SNTG2	TCEAL2
IL17REL	TTR	PALM	CYP26B1	ERICH5
ABCA12	XCL2	MYO15A	TPI1P2	HES6
RAB32	ALDOC	MAP3K2-D1	SNX10	RALYL
EPST11	AHNAK2	FKBP1B	GPX1	ZFP69B
SYNGR3	SH3PXD2B	CKB	NMT2	TMEM151B
LC26A4-AS	PLOD2	CMTM5	HSD11B1	ESCO1
SLC34A2	STAB2	CLC	PRKCD	E2F1
DSCAM	KCNQ3	USP3-AS1	TRIM16L	ZYG11A
HSH2D	FLT1	APBA1	LY6G5B	FBXL16
ZNF385C	NDRG1	MB21D2	LINC00184	ZNF226
ANXA6	HLA-DQB1	BBOF1	SHTN1	LOC105372068
FN1	IGLL5	IGHE	EPB41L1	PODXL2
CXorf49B	MUCL1	SHD	UPK1A	TAF4
CXorf49	IGLC1	RGMB	GAS2L2	LINC01529
NOX1	NR4A3	CRIP1	HS3ST2	DHFR
ANGPTL4	ADRA2C	CACNA2D3	OSGIN1	PLPP2
TMPRSS2	PCSK6	C9orf78	TMEM54	RND2
LAMP3	CCL21	MT1L	INHBB	DDX11
USP18	ADCY1	TRAV5	FTL	GRM4

IL19	ANKRD37	IC1005072	HOXD8	LMNB2
ALOX15B	ABCA12	COLCE-AS1	CR1	WDR34
HEPHL1	SERPING1	DDR1	FREM3	SOX4
BIRC3	SOD2	MAGIX	UMODL1	KIF5C
HMGA2	PCSK1N	LINC01504	SELE	SMPD3
GSTM3	ADAMTS4	ZDHHC11	COTL1	SASS6
ADAMTS6	GCNT1	RNASE4	SAMD4A	CLSTN2
MSC-AS1	SULF2	SYT15	CSF2RB	NPAS1
ADAMTS1	CTSW	CEND1	CTSD	WASF1
FUOM	GRM4	TRPC2	LINC01402	BEX1
MCHR1	TPM1	ADAMTS2	VSIG4	TMEM198
RELT	ESM1	SAMD12	ZNF98	ARHGEF19
OVOS	GZMB	ALPK3	KANK4	CCNE2
IFI44	IL2RB	EGFL7	SYTL4	PAX5
TMEM171	PTGES	UBBP4	IMPDH1	SPTBN2
OASL	FASLG	NRG1	ZNF503-AS1	IQGAP3
SAA4	LAMC2	DNLZ	VLDLR-AS1	TMEM63C
MPZ	AQP5	FAM153A	EXD1	KCNB2
CCL5	ESYT3	C2orf88	PDE6G	SNAP91
CD83	PROSER2-AS1	TRIM35	PEMT	RHBDL3
ZBED2	MTSS2	LINC02356	ZNF541	RAD54L
HERC5	NUAK2	SCN3A	CLEC4G	SCRT1
IFIT2	EFNA1	DES	RBFOX3	DSN1
CDH5	CCL18	SMG3-AS1	RETSAT	MCM7
LAPTM5	GLB1L2	DEFA3	MS4A7	GGPS1
SLC26A9	SLC25A19	PTCRA	RAPSN	CCDC172
TAGLN	CD248	NMNAT3	DHRS9	SPTBN4
CDH2	HIC1	ALOX12	IL4I1	SOX11
NEURL3	ISLR	MYL9	GRHL1	TROAP
PARVB	FOXL2	ADIRF-AS1	NPL	PARD6G
ITGB2	RIPK4	CCDC122	PPP1R27	MGAT5B
ADM2	SDK1	DMC1	CCL8	PCSK1N
ADRA1B	MTHFD2	PTENP1-AS	SPINK5	KIF14
S100A7	SCNN1G	KCNK17	HCAR2	DISP3
WFDC5	EFNA3	IC1005071	DUSP10	SV2A
SERPINA5	EPPK1	SLC25A39	AMPD3	ZNF606
MMD	CLU	ARL17A	CCDC85A	COX6B2
CYGB	ZCCHC18	TFPT	NBPF6	MAEL
ANKRD1	CXCR3	ZC4H2	SPATA9	DMRTA2
THBS1	HNRNPA1P33	SH2D4A	FCER1G	BUB1
BST2	COL25A1	SLC9A5	TBX15	ZNF850
BAMBI	WNT4	HTR6	TMEM139	PAICS
IL17C	ABCA2	SERF1A	CD300LB	NUDT21
ATRN1	FHL2	TCEA3	CYTH4	KCNC1
SLC15A3	GPR32	STRADB	NANOS1	METT121A
IC1053730	GALNT6	ADAMTS17	SKIV2L	DCX
SELL	NEK6	DRC7	C3AR1	GRIK5
MUC13	DKK1	MYOM2	GOLGA7B	STAC3
BATF2	DUSP5	NR2F6	ABCF1	RCC2
FNDC4	TRIM9	CLEC2L	MPZ	GATS

DDX60	SLC6A10P	FZD6	PISD	RIMS2
KCNK3	MZB1	ARC	TRPM2	STX1B
TNF	HSPB6	DEFA1	TSKU	ZZZ3
DDX58	NKG7	LOC613038	SIM2	CBFA2T2
DYSF	SHISAL1	SAMD14	CHRNA1	ZNF713
SUSD2	NOD2	KRT80	DOK3	MAGED4B
LEMD1	FMO2	CYTL1	SULT1A1	MTCYBP44
POPDC3	CBARP	BAZ2B	FADS3	HCG9
NTNG1	SLC4A7	IGKV1D-13	KCNK13	SLC25A41
SHISA2	TPBG	GPRC5C	LIPA	KIF11
CAPN14	FTH1	CXCL8	FGF8	KCNF1
SYNDIG1	KCND2	FAM167B	DRD1	SHISA7
AREG	TAFA5	INSC	ADAP2	LHX2
HKDC1	SLC38A5	KEL	APLNR	GLRA2
CPA6	S100A7	CCDC85C	ACSF2	INA
KMO	GDNF	GIMAP3P	PNMAL2	TUNAR
NKILA	CXCL10	JBE2F-SCL	LINC01060	ZC3H8
FAM181B	SOX4	SLC5A2	NETO2	SKA3
KCNG1	SEMA5A	LOC10050751	DHDDS	ARHGAP33
TAGLN3	RASGRF2	SIGLEC15	IRX3	OR1J1
OTOP3	SOCS3	ADTRP	RENBP	SDHAF4
PLA2G4C	LY6E	TRAV17	LOC101928896	BSX
TMEM106A	SCGB1D2	TRBV19	CD84	ZNF367
TFF1	MEGF10	HLA-DOA	CYBB	DNMT3A
TBXAS1	SLC5A3	TRBV30	KCNA6	BIRC5
KCNN3	IGFBP2	PCSK1N	LFNG	GMNN
HCP5	ANKRD18A	DNM1	RDH5	OR4F13P
PDE4B	TIPARP	WFDC21P	HLA-L	CELF3
PDCD1LG2	ENO1	HSD11B1	CSNK2B	GAS2L3
NCF1	EPSTI1	SORCS3	DTX1	ASCL5
TRPV2	MAOB	MMP8	ITPK1	GRK1
RASD1	IL15	GJB6	NCF1B	CDC20
IFITM2	PFKP	PLAAT2	NRROS	HS3ST1
LOC440896	LRRC15	CHD5	HOXA10	NCAPG
PTP4A3	PRR15	MN1	C1orf127	TMEM89
IL7R	TNFRSF18	ARG2	CD163	PTPRH
RPSAP52	HTRA4	DACT1	ALX1	CDC7
FAM155B	EGFR-AS1	TSEN2	POU2F2	CARMIL3
BCL2L15	PLEKHA2	RSPH1	RAB42	ARMC10
FOLR3	CPXM1	TMC5	LINC01287	POLE
KIF12	HEPH	LINC02610	KRT14	INSM1
EGF	HAPLN3	HGD	GNA15	CLSPN
C19orf38	GPR146	SHROOM1	APOC1	MSI2
AMTN	GAS1	ADGRV1	FSTL3	LOC105371184
AWAT2	PROSER2	JADE3	HHEX	SPPL2B
ASPHD1	LAMA1	LEP	LILRA2	LINC02036
CBSL	RTN4RL2	NPC1L1	PLPPR4	EZH2
IL12RB1	SASH1	STAG3L4	MARK1	PPP2R2B
BEST1	CILP2	TMEM63C	CD300A	KIAA1324
PSMB9	KISS1R	RAD21-AS1	MEOX1	ADGRB2

C2	RNASE7	SYCE2	LINC02172	SYT11
HS3ST2	LRRN4CL	TMEM132A	HCST	KIF1A
BVES	TMEM132B	DCXR-DT	SIRPB2	RGS17
COL13A1	CGB3	CAPN11	LOC102724450	KCNH8
RAB42	TESMIN	DNM1P46	MSH5	C17orf53
KRTAP2-3	WDR86-AS1	NKX3-1	PITX2	ZNF681
CD69	SCGB2A2	EDA	XKR3	HERC2
HHIP	KLRC1	DPCD	AFF2	HOXB1
OLFM1	SBSN	IL23A	DPEP1	SIX3
FAP	GJB2	EMP1	PSAT1	CEP41
IL7	CD2	CTNNAL1	SAA2-SAA4	DPYSL5
ROBO4	CD3E	SLC22A23	NEUROG3	LOC150051
C6orf223	MYO1G	HBG1	ADGRE4P	RFC4
PITX3	XCR1	VWF	C4orf19	CDKN2B-AS1
MT1L	L1CAM	IFI27	PMEP1	HS2ST1
MTNR1A	COMP	KRT73	DCSTAMP	TMEM61
ALDOB	FAM83B	HLA-DRB1	KRT79	KIAA1586
MIA	TYMP	PKD1P6	RHOXF1-AS1	KIF5A
RCN3	SEMA4C	LAMA5	GRAMD1B	CPA5
S100A12	MT1H	MAL2	TIMD4	LOC101929584
CXCL9	TRPC4	HOXA5	HRCT1	KCND2
ZFP57	ZIM2	AQP10	TSPAN33	KPNA2
RNASE1	AK4	PTPRH	TFAP2A	MAPK8IP1
CCL2	MUC16	CR1L	KANK1	NKX2-2
CUX2	KLF4	ABCG2	CRYBB1	KCTD1
IL4I1	SMIM31	CACNG6	PRND	STMN1
AANAT	TBC1D3I	PBX1	KCNQ3	KIF4A
SH2D2A	DAW1	KIAA1522	SDS	GNAO1
GAL	KRT6A	SH3RF3	GSDMA	OVOL2
IGFN1	NFKBID	SNX24	STEAP3	HCN3
CDK5R2	SSC5D	XK	HOXC10	PSD2-AS1
CSF1R	COL4A6	CAPS2	MED16	TMEM59L
LEFTY1	ARNT2	TSPO2	ADRB1	C19orf57
SAMD14	TNC	IGKV1D-8	CCR1	ERCC6L
LTB	HLA-F	SARDH	SEZ6	DEPDC1
ARG2	PMEP1	LOC389641	CD28	HELLS
GFPT2	HLA-DRB1	ZNF233	HLA-DQB2	CRMP1
KLK8	ISG15	CCNE1	SPOCD1	ZFHX2
LINC00880	PYGL	IGLV1-41	C9orf24	SPTB
TRIM36	CRYGN	SIK1	CAPN11	ADGRD2
FABP6	GSTA1	IGKV1D-17	HLA-DOA	KCNMB2
PRSS2	GEM	MGC16275	HTR5A-AS1	CENPF
LOC1019294	KDELRL3	MGAT5B	LOC107984640	HOXD10
CGB5	JAKMIP2	IGLV6-57	FZD8	NEUROD4
TNFRSF1B	GYS1	DNAH14	MAP7D1	ZNF85
CPXM1	PIPOX	C1orf54	SPTBN5	DPY19L2
NRIP3	P4HA1	C16orf95	HSPB7	ZNF528-AS1
SNAI1	ETS2	HP3-ACAD	PLK2	UBE2C
SLX1B	GAPDH	CLIC2	EHF	TP73
Y51-DBNDC	DDR1	MRPS36	BCYRN1	DPY19L2P2

KPNA7	CYP2J2	HOATZ	SAA4	GOLGA6L7P
KANSL1	STC2	TTLL9	SMAD6	ARHGEF39
ALOXE3	DOCK5	TRBV7-4	CNTN6	PAK5
KRT87P	EPYC	LRRC69	CD86	CAMK2B
DGCR9	PKHD1L1	ETV2	ABCC3	LOC101928035
MICB	TNFRSF10B	LOC1053723	SLC9A3R2	WDR31
KIRREL2	MYEOV	TRNP1	PRRT1	CBX3
SORD2P	IFI44L	C5orf34	LOC101928530	NOL4
TM6SF1	SLC13A2	ACTA1	SAA2	STAG3
SLC5A8	ADGRG3	EPHB3	OTOF	PSMG3
GPHA2	GZMA	IGKV3D-20	AMBP	KIAA1211
HSD17B14	HLA-DPB1	LRRC29	GPR137C	SEZ6
DPY19L2P2	TG	TRIM26	LOC283710	TAS2R40
PRB2	IQCG	HES4	LOC105378828	MAD2L1
TNFSF14	NOCT	PNMA3	P2RX6	ASPM
ZBP1	FBN3	MYBL2	TUSC5	INIP
CDH19	LDOC1	PDE6B-AS1	UTS2	SLC8A2
SERPINA9	S100B	SPR	PSORS1C3	SH3GL2
IL2RG	DEPDC7	SRP14-AS1	LRRC25	TMPO
ZNF876P	HOXA5	AZIN2	C15orf48	UGT8
NCF1B	CERS1	CABYR	KIF20A	LOC101927189
TNFRSF9	TMEM132C	CDH13	CA8	ENTPD2
DIO3	ITGAX	CABP7	SASH3	KLHDC8A
HGD	SPOCK1	PLPPR3	RPH3AL	HIST1H4A
TGFB2-OT1	BRSK2	LOC1053718	SIRPB1	RPS6KL1
CPXM2	FLG2	R5-ARHGA	CCL3	MGAT4C
COL6A2	DUXA	NRNPA1P4	C10orf90	NUSAP1
NEXN	FHAD1	HTRA3	SYNM	GRM8
MOGAT2	LINC01558	THEM5	CYTL1	HIST1H2BC
SOCS1	GZMK	EMID1	CCDC62	TRIM60
SPRR2B	COL23A1	TRBV4-1	LOC101559451	CCNA2
PRR4	KLRK1	CCL3L1	RPL31P11	DTX1
SRGN	FLNB	SPTBN2	TBX5-AS1	LINC01977
THY1	LINC02783	PP1R26-AS	VMO1	DLL3
CD70	EREG	CHRNA2	LYL1	RIMKLA
F11-AS1	GRASLND	OLFML2B	ADAMTS18	AGBL4-IT1
PSMB8	GCNT3	CEBPA-DT	SLC22A12	GS1-24F4.2
NDUFA6	PRDM7	SUPT3H	SULT1A2	C16orf59
XKR9	CTIF	EPHX2	P2RY12	SMC4
MMP23B	EMILIN2	ENHO	PWWP2B	KNTC1
DDIT4L	APOA1	CLDN5	MSC-AS1	HIST1H3F
IDO2	SLC9C2	RPL32P27	KIR2DL4	CLCN2
MEOX1	CD69	ALG14	LINC01909	PNMA1
AMZ1	F2RL1	PVALB	MMP8	LOC643201
SIRPB2	MOV10L1	LINC00243	LOC100506585	SYT10
ENPP6	APBA2	NEURL1	F5	KLHL14
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CTSE	PDK1	IGHV2-26	PPP2R1B	LINC01600
JBE2F-SCL1	PRSS22	CLN3	C5orf38	ZNF229
RFLNA	PRUNE2	LINC00639	APOB	MCM6



TAF7L	IL17RE	LHFPL6	AKR1C2	C14orf180
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MAPK8IP2	GPR150	ILRUN-AS1	FAM151A	CNIH2
NOG	KRT6B	PGF	RANBP3L	PHGDH
ADAMTS9	UCHL1	HSF4	CD52	SLC25A10
GRB14	PTGDR	KIF17	NNAT	KBTBD12
GREB1L	LOC105375903	NF793-AS1	DNAJC5B	CLRN1
INSC	CARD11	HSD17B14	LOC100996721	LOC101927765
TRIM74	IL1B	TRAV22	TMIGD3	LOC105370333
SH3RF3	ISLR2	TIE1	UPK3A	PRC1-AS1
SELP	RND1	C2	SIGLEC9	C2CD4C
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RNF39	LILRB4	ANK3	MATK	ENDOG
LOC1053749	RASD1	TUBB	PDE11A	ATAT1
LOC1009965	AZGP1	MAOA	LINC01497	TCERG1L
WNT6	OBSCN	UXT-AS1	GIMAP1-GIMAP5	NPM2
TREM1	TTC39C	CA15P1	ESRRG	NGB
LCP1	FNBP1L	MAFIP	CD80	LINC01567
CAVIN4	DAZ1	RPS26	GDF5	LOC728084
TTLL13P	PATL2		GTF2H4	FOXD1
LGALS2	RGS22		TLR7	RELN
MYCT1	SFN		GJA4	RAB3B
CARMIL3	QPCT		LIPE	RECQL4
NR4A3	ANXA8L1		LINC01425	XDH
NKX1-2	CACNA1G		AIFM2	DHDDS
BICC1	SLC12A8		RFPL4B	KIF24
IL1R2	DEPTOR		LIPN	KIF18A
LOC1019295	DOCK10		CFAP221	YBX2
RHEBL1	NLRP2		HLA-DMA	FADS2
LINC00313	TAP1		VWF	TULP4
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EGOT	ADGRG2		LILRB3	MAPT-IT1
TMEM255E	SLCO4A1		CLIC6	CCDC74B
GPR141	THEM5		HOXD3	HIST1H2BJ
LRRC55	SLC25A24P1		MCAM	IGSF9
CLUU10S	ZFYVE28		LILRA1	ESPNP
EXTL1	ARMC12		CLSTN2	OR2B6
CCRL2	SLC6A19		REEP6	PHYHIPL
RASGRF2	CTSV		CD300E	BLM
CA7	MEP1A		CD180	MZT2A
FFAR2	GFI1B		LINC00987	GALNT16
TNXB	PTHLH		LINC01629	SOCS7
FZD9	MTRNR2L2		OVOL3	CDCA3
CILP2	F12		TAP2	FGF17
CCIN	PLA2G7		MPL	PCBP3
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OXCT2P1	AQP3		MRM1	DBP
HLA-G	TAP2		HLA-DRB1	B4GALT6
RBM24	RGS1		ZSCAN1	LOC100505501

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KCNJ12	ARHGAP45	CLDN4	PSD3
PIWIL2	SRSF12	MARCO	TUBB2B
GAS6-AS2	FOSL1	MYO16-AS1	HDAC2
C12orf42	WHRN	STPG2	KCNQ2
PAEP	RHPN2	CXorf21	GBX2
MUC21	IPMK	DSTNP2	DLGAP5
TMIE	MYOF	CHRNA7	MIR613
LOC1006530	EOMES	TMPRSS4-AS1	FOXE1
NEU1	VWCE	RTN4RL1	CCDC87
ARSF	LOC100506289	KIR3DL2	VANGL2
MYPN	USP32P1	PLA2G7	ESCO2
HLX	PPFIBP2	LILRA4	NUDC
MMP8	CYP2D7	UPK3B	CPLX2
AMIGO3	PTGER3	LOC100653233	CDCA2
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ATP6V0D2	ERO1A	LOC105378687	HIST1H2BN
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CLEC5A	KLRB1	DDIT4L	WNK3
SCG5	HLA-DRB3	TBX20	ESPN
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LINC02367	RBP1	IL2RA	NRSN1
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PKN2-AS1	INHBA	FOXD2-AS1	DNER
ESM1	MAG	HLA-DPA1	FGF12-AS3
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FPR1	TPRN	DDR1	MTHFD2P1
BATF3	LDLRAD3	CEACAM16	CEACAM8
ZNF114	JUNB	OXT	THEG
CELF5	GSTM5	KCNH5	ADM2
PLSCR2	GZMH	DCANP1	LINC00954
SYNPR-AS1	MASP1	BCL2A1	CDT1
4-Mar	OVCH2	GPR142	LINC01304
TSEN34	BCL2A1	NCF1C	C2orf15
ALKAL2	FLACC1	MEP1A	ZNF93
LINC00560	FOXO1	CASQ1	SPAG16
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LOC1001301	CEP72	LOC338963	LINC00888
FAM225A	NLGN2	LST1	NUP155
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LOC1019275	LINC00330	C4orf48	TRIT1
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CHRNA1	THBS4	SIRPD	TAF1L
RAB33A	STAC2	ZNF311	RAD51
DAB1	DPP7	NOMO1	LINC01134
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UCLH1	CLNK	CNTNAP2	C19orf48

FBLN7	VWDE	DOC2B	AMH
FGF2	AVPR1A	NPAS2	C12orf73
TAB2	KLHL13	TBX5	ETNK2
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SV2B	NR1D1	TMEM150B	LOC642366
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T6GALNAC	SERPINE2	GOLGA3	NECTIN1
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CD79A	KCNK1	LINC00993	ECEL1
TRHDE	AR	CLN3	CCDC136
ASEK-C17orf101	LOC441179	ZBTB9	TMCC2
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LINC00639	DPPA4		ZNF669
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NECAB2	FJX1		CNTNAP5
SMOC2	DNAH7		HMG2N2
MEF2B	TIGIT		MRPS26
FAM205A	CXCL9		NCAPD3
CGB1	MPZL2		HOXD9
GLP2R	CST7		PSIP1
TSPAN18	TREM2		C8orf44
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MAEL	PRIMA1		OOEP
GRIN2A	TEX29		LINC00511
NDP	TMIGD2		APOC4
CYP2D6	SLA2		PDILT
BCAN	CCR5		KCNJ11
GJD4	GBP5		C11orf80
ART3	PLAUR		GPR137C
ELOVL3	PFKFB3		RBBP4
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TRIM27	CHST2		LINC01310
CXCR4	DOCK3		CA9
GFI1	NOS2		TMEM150C
ONECUT1	SPON2		HIST1H2BO
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LINC02119	CASP14	HS3ST4
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NWD2	FOXQ1	MARK1
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NODAL	WNT10B	CDH2
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COL11A2	LOC100289473	KEL
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TH	NKX3-1	BRSK2
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	EME1	LOC101929427
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	ARSL	USP1
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	SEMA3A	LRRC61
	CTRC	DLX2
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	SGPP2	BUB1B
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	MAB21L4	NARS2
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SELE	RBFA
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ITK	LINC01654
LOC101927124	TCP10L
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RBKS	FEV
IL1RN	SYNJ2
JUN	LOC730101
TCL1B	PARP1
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MAGED4	GPSM2
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WNT9A	PPFIA3
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SPTSSB	FKBP3

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SLAMF7	LOC101927837
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SHC3	SAMD1
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FLG	FLRT1
CP	OR51F2
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ESR1	GPR12
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	CDC25A
	NEB
	CTXN1

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ASTN1  
RMI1



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OVAAL  
MT3

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AGPAT5  
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DACT3-AS1  
APRT  
SNORD116-1  
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ASF1B  
LIG1  
CIB2  
ZNF664  
PCDHA5  
KCNH2  
WBSCR28  
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ZNF488  
ARL6IP1  
GPRC5B  
TNNT1  
RAB6C  
ELOVL2  
RTN3  
DARS2  
CLCA1  
LINC01456  
MCUR1  
BOLA1  
VWCE  
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AKAP5  
MIR663B  
CCDC150  
ST8SIA2  
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