

A2M	ACVRL1	AICDA	ANK3	ARL11	AUH
A4GALT	ACY1	AIF1	ANKH	ARL13B	AURKA
A4GNT	ADA	AIFM1	ANKK1	ARL14EP	AURKC
AAAS	ADAM10	AIMP1	ANKRD1	ARL6	AUTS2
AADAC	ADAM12	AIP	ANKRD11	ARL6IP5	AVP
AADAACL2	ADAM17	AIPL1	ANKRD26	ARMS2	AVPR1A
AANAT	ADAM19	AIRE	ANKS1A	ARPC3	AVPR1B
AARS	ADAM33	AK1	ANKS1B	ARSA	AVPR2
AARS2	ADAM7	AK2	ANO10	ARSB	AXIN1
AASS	ADAM9	AKAP10	ANO5	ARSE	AXIN2
ABAT	ADAMTS10	AKAP13	ANO6	ARSF	AXL
ABCA1	ADAMTS13	AKAP2	ANO7	ART4	B2M
ABCA10	ADAMTS16	AKAP9	ANTXR1	ARVCF	B3GALNT1
ABCA12	ADAMTS17	AKR1B1	ANTXR2	ARX	B3GALT6
ABCA13	ADAMTS18	AKR1C2	ANXA11	AS3MT	B3GALT1
ABCA2	ADAMTS2	AKR1C3	ANXA5	ASAH1	B3GAT3
ABCA3	ADAMTSL2	AKR1C4	AOAH	ASAH2	B3GNT1
ABCA4	ADAMTSL3	AKR1D1	AOC1	ASB10	B3GNT3
ABCA7	ADAMTSL4	AKR7A2	AP1S1	ASCC1	B4GALT1
ABCB1	ADAR	AKR7A3	AP1S2	ASCC3	B4GALT7
ABCB11	ADARB1	AKT1	AP3B1	ASCL1	B9D1
ABCB4	ADC	AKT2	AP3B2	ASIC3	B9D2
ABCB6	ADCK3	AKT3	AP4B1	ASIP	BAALC
ABCB7	ADCY10	ALAD	AP4E1	ASL	BAAT
ABCC1	ADCY3	ALAS2	AP4M1	ASMT	BACE1
ABCC11	ADCY5	ALB	AP4S1	ASMTL	BAG3
ABCC2	ADCY6	ALCAM	AP5Z1	ASNS	BAG6
ABCC3	ADCY9	ALDH16A1	APAF1	ASPA	BANF1
ABCC4	ADCYAP1	ALDH18A1	APBA2	ASPM	BANK1
ABCC6	ADD1	ALDH1A1	APBB1	ASPN	BAP1
ABCC8	ADH1B	ALDH1A2	APBB3	ASPRV1	BARD1
ABCC9	ADH1C	ALDH2	APC	ASS1	BAX
ABCD1	ADH4	ALDH3A2	APCDD1	ASTN2	BBS1
ABCD3	ADH5	ALDH4A1	APEX1	ASXL1	BBS10
ABCD4	ADH7	ALDH5A1	APH1A	ATCAY	BBS12
ABCG1	ADIPOQ	ALDH6A1	APH1B	ATF1	BBS2
ABCG2	ADIPOR1	ALDH7A1	APLNR	ATF3	BBS4
ABCG5	ADK	ALDOA	APOA1	ATF5	BBS5
ABCG8	ADM	ALDOB	APOA2	ATF6	BBS7
ABHD12	ADNP	ALG1	APOA4	ATG16L1	BBS9
ABHD5	ADORA1	ALG10B	APOA5	ATG7	BCAM
ABI3BP	ADORA2A	ALG11	APOB	ATIC	BCAP31
ABO	ADORA3	ALG12	APOBEC3B	ATL1	BCAT1
ACACA	ADRA1A	ALG13	APOBEC3G	ATM	BCAT2
ACACB	ADRA2A	ALG2	APOBEC3H	ATN1	BCHE
ACAD8	ADRA2B	ALG3	APOC1	ATOH7	BCKDHA
ACAD9	ADRA2C	ALG6	APOC2	ATP10A	BCKDHB
ACADL	ADRB1	ALG8	APOC3	ATP10D	BCL10
ACADM	ADRB2	ALG9	APOC4	ATP13A2	BCL11A
ACADS	ADRB3	ALK	APOD	ATP13A4	BCL2
ACADSB	ADRBK2	ALMS1	APOE	ATP1A2	BCL2A1
ACADVL	ADSL	ALOX12	APOH	ATP1A3	BCL2L11
ACAN	ADTRP	ALOX12B	APOL1	ATP1B1	BCL2L2
ACAT1	AFF2	ALOX15	APOL3	ATP2A1	BCL9
ACAT2	AFF3	ALOX5	APOM	ATP2A2	BCMO1
ACBD5	AFG3L2	ALOX5AP	APP	ATP2A3	BCOR
ACBD6	AFP	ALOXE3	APRT	ATP2B2	BCORL1
ACCS	AGA	ALPL	APTX	ATP2B4	BCR
ACE	AGBL4	ALS2	AQP1	ATP2C1	BCS1L
ACHE	AGER	ALS2CL	AQP2	ATP5E	BDKRB2
ACLY	AGGF1	ALX1	AQP3	ATP5SL	BDNF
ACO2	AGK	ALX3	AQP4	ATP6AP2	BEAN1
ACOX1	AGL	ALX4	AQP5	ATP6V0A1	BEST1
ACP5	AGMO	AMACR	AQP7	ATP6V0A2	BEX4
ACSF3	AGO1	AMELX	AR	ATP6V0A4	BFSP1
ACSL4	AGO2	AMELY	AREL1	ATP6V1B1	BFSP2
ACSL5	AGPAT2	AMER1	ARF4	ATP7A	BHLHA9
ACSM2B	AGPS	AMH	ARFGEF2	ATP7B	BHLHE41
ACSM3	AGRN	AMHR2	ARG1	ATP8A2	BHMT
ACTA1	AGRP	AMN	ARHGAP24	ATP8B1	BICC1
ACTA2	AGT	AMPD1	ARHGAP31	ATPAF2	BICD1
ACTB	AGTR1	AMPD3	ARHGAP6	ATR	BIN1
ACTC1	AGTR2	AMT	ARHGAP9	ATRNL1	BIRC5
ACTG1	AGXT	ANAPC1	ARHGEF10	ATRX	BLK
ACTN2	AGXT2	ANG	ARHGEF11	ATXN1	BLM
ACTN3	AHCY	ANGPT1	ARHGEF12	ATXN10	BLMH
ACTN4	AH1	ANGPTL3	ARHGEF6	ATXN2	BLNK
ACVR1	AHR	ANGPTL4	ARHGEF7	ATXN3	BLOC1S3
ACVR1B	AHRR	ANGPTL5	ARHGEF9	ATXN3L	BLOC1S6
ACVR1C	AHSG	ANK1	ARID1A	ATXN7	BLVRA
ACVR2B	AHSP	ANK2	ARID1B	ATXN8OS	BMI1

BMP1	CA6	CCHCR1	CDK5RAP2	CHRNA2	CNTN1
BMP10	CA8	CCK	CDK5RAP3	CHRNA3	CNTN4
BMP15	CABIN1	CCKAR	CDK7	CHRNA4	CNTNAP2
BMP2	CABP4	CCKBR	CDKL3	CHRNA5	CNTNAP4
BMP2K	CACNA1A	CCL11	CDKL5	CHRNA7	CNTNAP5
BMP4	CACNA1C	CCL13	CDKN1A	CHRNA9	COA5
BMP5	CACNA1D	CCL17	CDKN1B	CHRNA1	COCH
BMP7	CACNA1E	CCL2	CDKN1C	CHRNA2	COG1
BMPER	CACNA1F	CCL22	CDKN2A	CHRNA4	COG4
BMPR1A	CACNA1G	CCL26	CDKN2B	CHRNA5	COG5
BMPR1B	CACNA1H	CCL3L1	CDKN2B-AS1	CHRNA6	COG6
BMPR2	CACNA1S	CCL4L1	CDKN2C	CHRNA7	COG7
BNC2	CACNA2D1	CCL5	CDON	CHST14	COG8
BOLA3	CACNA2D3	CCL7	CDSN	CHST3	COL10A1
BPGM	CACNA2D4	CCM2	CDT1	CHST6	COL11A1
BPI	CACNB2	CCNA2	CDY1	CHST8	COL11A2
BPIFA1	CACNB4	CCND1	CDY2A	CHSY1	COL12A1
BPY2	CACNG2	CCR1	CEACAM16	CHUK	COL17A1
BRAF	CADM1	CCR2	CEBPA	CIB2	COL18A1
BRAP	CALCA	CCR3	CEBPE	CIC	COL1A1
BRAT1	CALCR	CCR5	CEL	CIDEA	COL1A2
BRCA1	CALHM1	CCR6	CELSR1	CIDEC	COL25A1
BRCA2	CALM1	CCR7	CENPJ	CIITA	COL2A1
BRCC3	CALM3	CCRL2	CEP135	CILP	COL3A1
BRD1	CALR	CCT5	CEP152	CIRH1A	COL4A1
BRIP1	CALR3	CD109	CEP290	CISD2	COL4A2
BRSK2	CAMK4	CD14	CEP41	CISH	COL4A3
BRWD1	CAMKK1	CD151	CEP57	CITED2	COL4A4
BRWD3	CAMKK2	CD177	CEP63	CKM	COL4A5
BSC12	CAMP	CD19	CEP68	CLCA1	COL4A6
BSG	CAMTA1	CD1A	CEP85L	CLCA2	COL5A1
BSND	CANT1	CD1E	CER1	CLCF1	COL5A2
BST1	CAPN10	CD207	CERKL	CLCN1	COL6A1
BTAF1	CAPN13	CD209	CERS6	CLCN2	COL6A2
BTBD9	CAPN3	CD22	CES1	CLCN5	COL6A3
BTC	CARD14	CD226	CES2	CLCN7	COL6A4P2
BTD	CARD8	CD24	CETP	CLCNKA	COL6A5
BTK	CARD9	CD244	CFB	CLCNKB	COL7A1
BTLA	CARTPT	CD247	CFC1	CLDN1	COL8A2
BTN1A1	CASC16	CD27	CFD	CLDN14	COL9A1
BTN2A1	CASC5	CD2AP	CFH	CLDN16	COL9A2
BTNL2	CASK	CD320	CFHR1	CLDN19	COL9A3
BTRC	CASP1	CD36	CFHR2	CLEC11A	COLEC11
BUB1B	CASP10	CD38	CFHR3	CLEC2D	COLQ
C10orf11	CASP12	CD3D	CFHR4	CLEC4M	COMMD1
C10orf137	CASP2	CD3E	CFHR5	CLEC7A	COMP
C10orf2	CASP3	CD3EAP	CFI	CLIC2	COMT
C12orf10	CASP5	CD3G	CFL2	CLK2	COQ2
C12orf57	CASP8	CD4	CFLAR	CLMP	COQ4
C12orf65	CASP9	CD40	CFP	CLN3	COQ5
C19orf12	CASQ2	CD40LG	CFTR	CLN5	COQ6
C1GALT1	CASR	CD44	CGA	CLN6	COQ9
C1QA	CAST	CD46	CGB	CLN8	CORIN
C1QB	CAT	CD5	CHAT	CLNK	CORO1A
C1QC	CATSPER1	CD55	CHD1L	CLOCK	COX10
C1QTNF5	CATSPER2	CD58	CHD2	CLPS	COX14
C1R	CATSPER3	CD59	CHD3	CLPTM1	COX15
C1S	CATSPER4	CD72	CHD6	CLRN1	COX4I1
C2	CAV1	CD79A	CHD7	CLSTN2	COX4I2
C2orf71	CAV3	CD79B	CHD8	CLTCL1	COX6B1
C3	CBFB	CD81	CHDH	CLU	COX7A1
C3AR1	CBL	CD86	CHEK2	CLUL1	COX7A2
C4A	CBLB	CD8A	CHFR	CLYBL	CP
C4B	CBR1	CD96	CHGA	CMA1	CPA4
C4BPA	CBR3	CDA	CHGB	CMPK1	CPA6
C5	CBS	CDAN1	CHI3L1	CNBP	CPB2
C5AR2	CBX2	CDC42BPB	CHI3L2	CNDP1	CPE
C5orf42	CBX4	CD6	CHIA	CNGA1	CPLX2
C6	CC2D1A	CDC73	CHIT1	CNGA3	CPN1
C6orf15	CC2D2A	CDH1	CHKB	CNGB1	CPOX
C7	CCBE1	CDH12	CHL1	CNGB3	CP51
C7orf10	CCDC103	CDH13	CHM	CNKS1	CPT1A
C8A	CCDC14	CDH15	CHMP2B	CNKS2	CPT1B
C8B	CCDC170	CDH23	CHMP4B	CNNM2	CPT2
C8orf37	CCDC22	CDH3	CHN1	CNNM4	CPZ
C9	CCDC28B	CDH5	CHRD1	CNOT3	CR1
C9orf72	CCDC39	CDH8	CHRFAM7A	CNOT4	CR2
CA1	CCDC40	CDHR1	CHRM1	CNPY3	CRADD
CA12	CCDC50	CDK11A	CHRM2	CNR1	CRB1
CA2	CCDC8	CDK4	CHRM3	CNR2	CRBN
CA4	CCDC88C	CDK5R1	CHRNA1	CNTF	CREB1

CREB3L3	CYB5A	DDAH1	DNAAF3	EDA2R	ERBB4
CREBBP	CYB5R3	DDAH2	DNAH11	EDAR	ERCC1
CRELD1	CYBA	DDB2	DNAH5	EDARADD	ERCC2
CRH	CYBB	DDC	DNAH9	EDN1	ERCC3
CRHR1	CYBRD1	DDOST	DNAI1	EDN2	ERCC4
CRISP2	CYCS	DDR1	DNAI2	EDN3	ERCC5
CRK	CYLD	DDR2	DNAJA4	EDNRA	ERCC6
CRKL	CYP11A1	DDX11	DNAJB2	EDNRB	ERCC8
CRLF1	CYP11B1	DDX20	DNAJB6	EEF1B2	ERLIN2
CRP	CYP11B2	DDX25	DNAJC19	EEF2K	ERMAP
CRTAP	CYP17A1	DDX39B	DNAJC5	EFCAB5	ESAM
CRX	CYP19A1	DDX3Y	DNAJC6	EFEMP1	ESCO2
CRYAA	CYP1A1	DDX5	DNAL1	EFEMP2	ESPN
CRYAB	CYP1A2	DDX53	DNASE1	EFHC1	ESR1
CRYBA1	CYP1B1	DDX58	DNASE1L3	EFHC2	ESR2
CRYBA4	CYP21A2	DEAF1	DNASE2	EFNB1	ESRRB
CRYBB1	CYP24A1	DEC1	DND1	EFR3A	ESRRG
CRYBB2	CYP26A1	DECR1	DNM1	EFTUD2	ETFA
CRYBB3	CYP26B1	DEFB1	DNM1L	EGF	ETFB
CRYGB	CYP27A1	DEFB126	DNM2	EGFR	ETFDH
CRYGC	CYP27B1	DEFB4A	DNMT1	EGLN1	ETHE1
CRYGD	CYP2A13	DES	DNMT3A	EGR2	ETNPPL
CRYGEP	CYP2A6	DFNA5	DNMT3B	EGR3	ETS1
CRYGS	CYP2B6	DFNB31	DNMT3L	EHD2	EVC
CRYM	CYP2C18	DFNB59	DOC2A	EHMT1	EVC2
CSAG1	CYP2C19	DGAT1	DOCK3	EHMT2	EVIS
CSDE1	CYP2C8	DGCR14	DOCK4	EIF2AK3	EXO1
CSF1	CYP2C9	DGCR2	DOCK6	EIF2B1	EXO5
CSF1R	CYP2D6	DGCR5	DOCK8	EIF2B2	EXOC4
CSF2	CYP2D7P1	DGCR6	DOCK9	EIF2B3	EXOSC3
CSF2RA	CYP2E1	DGCR8	DOK7	EIF2B4	EXT1
CSF2RB	CYP2F1	DGKD	DOLK	EIF2B5	EXT2
CSF3R	CYP2G1P	DGUOK	DPAGT1	EIF3H	EXTL3
CSGALNACT1	CYP2J2	DHCR24	DPM1	EIF4E	EYA1
CSH1	CYP2R1	DHCR7	DPM3	EIF4G1	EYA4
CSMD1	CYP2W1	DHDDS	DPP10	ELAC2	EYS
CSMD3	CYP3A4	DHFR	DPP6	ELANE	EZH2
CSNK1A1L	CYP3A43	DHH	DPY19L2	ELAVL2	F10
CSNK1D	CYP3A5	DHODH	DPYD	ELF4	F11
CSNK1E	CYP3A5P1	DHRS4L1	DPYS	ELK1	F12
CSNK2A2	CYP3A7	DHX16	DPYSL2	ELN	F13A1
CSNK2A3	CYP4A1	DHX36	DRD1	ELOVL4	F13B
CSRP3	CYP4A11	DHX37	DRD2	ELP2	F2
CST3	CYP4A22	DIABLO	DRD3	ELP4	F2R
CSTA	CYP4B1	DIAPH1	DRD4	EMC4	F2RL1
CSTB	CYP4F12	DIAPH2	DRD5	EMD	F3
CSTF2T	CYP4F2	DIAPH3	DROSHA	EME1	F5
CTC1	CYP4F22	DICER1	DRP2	EMG1	F7
CTDP1	CYP4F3	DIO1	DSC2	EMX2	F8
CTF1	CYP4V2	DIO2	DSC3	EN2	F9
CTGF	CYP7A1	DIP2A	DSCAM	ENAM	FA2H
CTH	CYP7B1	DIP2B	DSCR8	ENG	FAAH
CTHRC1	CYSLTR1	DIP2C	DSG1	ENO1	FAAH2
CTLA4	CYSLTR2	DIRC2	DSG2	ENO3	FABP1
CTNNA3	D2HGDH	DIS3L2	DSG4	ENPP1	FABP2
CTNNB1	DAG1	DISC1	DSP	ENSA	FABP3
CTNND1	DAO	DISP1	DSPP	ENTPD1	FABP4
CTNS	DAOA	DKC1	DST	EOMES	FABP6
CTRC	DAPK1	DKK2	DTNA	EP300	FABP7
CTSA	DARC	DKK3	DTNBP1	EPAS1	FADD
CTSB	DARS2	DLAT	DUOX2	EPB41	FADS2
CTSC	DAZ1	DLD	DUOXA2	EPB41L1	FAH
CTSD	DAZ2	DLG3	DUSP23	EPB42	FAM120A
CTSG	DAZ3	DLG5	DUX4	EPC2	FAM126A
CTSK	DAZL	DLGAP2	DXO	EPCAM	FAM134B
CTSZ	DBH	DLGAP3	DYM	EPHA2	FAM161A
CTTNBP2	DBI	DLL1	DYNC1H1	EPHA3	FAM205A
CUBN	DBT	DLL3	DYNC2H1	EPHA5	FAM20A
CUL3	DCAF13	DLX3	DYRK1A	EPHA7	FAM20C
CUL4B	DCAF17	DLX5	DYSF	EPHB2	FAM58A
CUL5	DCC	DLX6	DYX1C1	EPHB6	FAM83H
CUL7	DCDC2	DMBT1	DYX1C1-CCPG1	EPHX1	FAM8A1
CX3CR1	DCK	DMC1	EARS2	EPHX2	FAM91A1
CXCL10	DCLK1	DMD	EBAG9	EPM2A	FANCA
CXCL11	DCLRE1C	DMGDH	EBP	EPO	FANCB
CXCL12	DCN	DMP1	ECE1	EPOR	FANCC
CXCL16	DCP1B	DMPK	ECI1	EPX	FANCD2
CXCL5	DCTD	DMRT1	ECM1	ERAP1	FANCE
CXCR1	DCTN1	DMXL1	ECM2	ERAP2	FANCF
CXCR3	DCX	DNAAF1	ECSIT	ERBB2	FANCG
CXCR4	DCXR	DNAAF2	EDA	ERBB3	FANCI

FANCL	FLNC	FZD9	GFRA1	GP1BB	GSTT2B
FANCM	FLT1	G6PC	GGCX	GP2	GSTZ1
FARS2	FLT3	G6PC2	GGH	GP6	GTDC2
FAS	FLT4	G6PC3	GGT5	GP9	GTF2E1
FASLG	FLVCR1	G6PD	GH1	GPAM	GTF2H1
FASN	FLVCR2	GAA	GH2	GPANK1	GTF2H5
FASTKD2	FMN1	GAB2	GHR	GPATCH8	GTF2IRD1
FBLIM1	FMN2	GABBR1	GHRH	GPBAR1	GTF2IRD2
FBLN1	FMO1	GABRA1	GHRHR	GPC3	GUCA1A
FBLN5	FMO2	GABRA5	GHRL	GPC4	GUCA1B
FBN1	FMO3	GABRA6	GHSR	GPC6	GUCY2C
FBN2	FMO4	GABRB3	GIF	GPD1	GUCY2D
FBN3	FMO5	GABRD	GIGYF2	GPD1L	GUSB
FBP1	FMO6P	GABRG1	GIMAP8	GPD2	YG1
FBXL6	FMR1	GABRG2	GIP	GPHN	GYTL1B
FBXO10	FN1	GABRG3	GIPC3	GPI	GYP A
FBXO18	FN3K	GABRR2	GIPR	GPIHBP1	GYPB
FBXO7	FOLH1	GAD1	GIT1	GPR1	GYP C
FBXW11	FOLR1	GAD2	GJA1	GPR12	GYP E
FBXW4	FOXA1	GADD45B	GJA3	GPR139	GYS1
FBXW7	FOXA2	GAK	GJA4	GPR143	GYS2
FCAR	FOXA3	GAL3ST3	GJA5	GPR179	GZMB
FCER1A	FOXC1	GALC	GJA8	GPR33	H19
FCER2	FOXC2	GALE	GJB1	GPR55	H2BFWT
FCGR1A	FOX D3	GALK1	GJB2	GPR56	H6PD
FCGR2A	FOX E1	GALNS	GJB3	GPR68	HABP2
FCGR2B	FOX E3	GALNT12	GJB4	GPR98	HACE1
FCGR3A	FOX F1	GALNT18	GJB6	GPS1	HADH
FCGR3B	FOX F2	GALNT2	GJC2	GPSM2	HADHA
FCGRT	FOX G1	GALNT3	GJC3	GPT	HADHB
FCN2	FOX H1	GALNT9	GJD2	GPX1	HAL
FCN3	FOX I1	GALNTL5	GK	GPX4	HAMP
FCRL3	FOX L2	GALP	GLA	GRB10	HAND1
FDFT1	FOX N1	GALT	GLB1	GREM1	HAND2
FECH	FOX P1	GAMT	GLCC1	GRHL2	HARS
FEM1A	FOX P2	GAN	GLDC	GRHPR	HARS2
FEN1	FOX P3	GAP43	GLE1	GRIA3	HAS1
FERMT1	FOXRED1	GARS	GLI1	GRID1	HAVCR1
FERMT3	FPGS	GAS1	GLI2	GRIK1	HAX1
FEV	FPR1	GAS2L2	GLI3	GRIK2	HBA1
FEZF2	FPR2	GAS6	GLIS2	GRIK3	HBA2
FFAR1	FRA10AC1	GATA1	GLIS3	GRIK4	BBB
FFAR4	FRAS1	GATA2	GLMN	GRIN1	HBD
FGA	FREM1	GATA3	GLO1	GRIN2A	HBE1
FGB	FREM2	GATA4	GLP1R	GRIN2B	HBEGF
FGD1	FREM3	GATA6	GLRA1	GRIN3A	HBG1
FGD3	FRG1	GATAD1	GLRB	GRI P1	HBG2
FGD4	FRK	GATM	GLRX5	GRK1	HBM
FGF1	FRMD6	GBA	GLS	GRK4	HBS1L
FGF10	FRMD7	GBA3	GLTSCR1	GRK5	HBZ
FGF14	FRMPD4	GBE1	GLUD1	GRM1	HCCS
FGF2	FRY	GBGT1	GLUD2	GRM3	HCK
FGF20	FRZB	GC	GLUL	GRM5	HCLS1
FGF23	FSCB	GCDH	GLYCTK	GRM6	HCN1
FGF3	FSCN2	GCGR	GM2A	GRM7	HCN2
FGF8	FSHB	GCH1	GMIP	GRM8	HCN4
FGF9	FSHR	GCK	GNA14	GRN	HCP5
FGFBP1	FTCD	GCKR	GNAI2	GRPR	HCRT
FGFR1	FTH1	GCLC	GNAQ	GRXCR1	HCRTR1
FGFR2	FTHL17	GCLM	GNAS	GSC	HCRTR2
FGFR3	FTL	GCM2	GNAS-AS1	GSDMA	HDAC4
FGFR4	FTO	GCNT2	GNAT1	GSDMB	HDAC8
FGFRL1	FTSJ1	GCSH	GNAT2	GSE1	HDAC9
FGG	FUCA1	GDAP1	GNB1L	GSK3B	HDC
FH	FURIN	GDF1	GNB3	GSN	HDLBP
FHL1	FUS	GDF15	GNB5	GSPT1	HDX
FHL2	FUT1	GDF3	GNE	GSPT2	HEATR2
FIG4	FUT2	GDF5	GNMT	GSR	HELQ
FIGLA	FUT3	GDF6	GNPAT	GSS	HEPACAM
FIP1L1	FUT6	GDF9	GNPTAB	GSTA1	HERC2
FKBP10	FUT7	GDI1	GNPTG	GSTA2	HES6
FKBP14	FUT8	GDNF	GNRH1	GSTA3	HES7
FKBP5	FUZ	GEMIN2	GNRHR	GSTK1	HESX1
FKBP6	FXN	GEMIN4	GNS	GSTM1	HEXA
FKBPL	FXYD2	GFAP	GOLGA3	GSTM3	HEXB
FKRP	FXYD6	GFER	GOLGA5	GSTM4	HEY1
FKTN	FYCO1	GFI1	GON4L	GSTO1	HFE
FLCN	FZD1	GFI1B	GORAB	GSTO2	HFE2
FLG	FZD3	GFM1	GOSR2	GSTP1	HGD
FLNA	FZD4	GFPT1	GOT1	GSTT1	HGF
FLNB	FZD6	GFPT2	GP1BA	GSTT2	HGSNAT

HHEX	HSD17B2	IFT80	INSIG1	KCNC3	KIT
HHIP	HSD17B3	IGBP1	INSIG2	KCND2	KITLG
HIBCH	HSD17B4	IGF1	INSL3	KCND3	KL
HIF1A	HSD3B1	IGF1R	INSL6	KCNE1	KLB
HIF1AN	HSD3B2	IGF2	INSR	KCNE1L	KLF1
HIGD2A	HSD3B7	IGF2R	INVS	KCNE2	KLF10
HIP1	HSF4	IGFALS	IQCB1	KCNE3	KLF11
HIST1H2AE	HSFY1	IGFBP1	IQGAP1	KCNE4	KLF5
HIST3H3	HSN2	IGFBP3	IQGAP2	KCNH2	KLF6
HK1	HSP90AA1	IGFBP5	IQGAP3	KCNIP4	KLF7
HK2	HSP90B1	IGFBP7	IQSEC2	KCNJ1	KLHDC8B
HLA-A	HSPA1A	IGHA1	IRAK1	KCNJ10	KLHL10
HLA-B	HSPA1B	IGHG2	IRAK3	KCNJ11	KLHL3
HLA-C	HSPA1L	IGHM	IRAK4	KCNJ13	KLHL7
HLA-DMB	HSPA5	IGHMBP2	IRF1	KCNJ15	KLHL9
HLA-DOA	HSPA8	IGKV	IRF2	KCNJ2	KLK1
HLA-DPB1	HSPA9	IGLL1	IRF4	KCNJ3	KLK12
HLA-DPB2	HSPB1	IHH	IRF5	KCNJ5	KLK15
HLA-DQA1	HSPB3	IKBIP	IRF6	KCNJ6	KLK3
HLA-DQB1	HSPB6	IKBKAP	IRF7	KCNJ8	KLK4
HLA-DRA	HSPB7	IKBKG	IRF8	KCNJ9	KLK7
HLA-DRB1	HSPB8	IL10	IRGM	KCNK18	KLKB1
HLA-DRB5	HSPD1	IL10RA	IRS1	KCNK6	KLK1
HLA-E	HSPG2	IL10RB	IRS2	KCNK9	KMT2C
HLA-G	HTN3	IL11RA	IRS4	KCNMA1	KMT2D
HLCS	HTR1A	IL12A	IRX4	KCNMB1	KMT2E
HLX	HTR1B	IL12B	IRX5	KCNMB3	KNG1
HMBS	HTR2A	IL12RB1	ISCU	KCNN3	KPNA1
HMCN1	HTR2B	IL12RB2	ISL1	KCNQ1	KRAS
HMGA1	HTR2C	IL13	ISPD	KCNQ2	KRIT1
HMGA2	HTR3A	IL16	ISYNA1	KCNQ3	KRT1
HMGCL	HTR3B	IL17A	ITCH	KCNQ4	KRT10
HMGCR	HTR3C	IL17F	ITGA11	KCNS1	KRT12
HMGCS2	HTR3E	IL17RA	ITGA2	KCNS3	KRT13
HMHA1	HTR5A	IL17RB	ITGA2B	KCNV2	KRT14
HMOX1	HTR6	IL17REL	ITGA3	KCTD13	KRT16
HMOX2	HTR7	IL18	ITGA4	KCTD7	KRT17
HMSD	HTRA1	IL18R1	ITGA6	KDM4C	KRT18
HMX1	HTRA2	IL18RAP	ITGA7	KDM5A	KRT2
HMX2	HTT	IL19	ITGA9	KDM5C	KRT3
HNF1A	HUS1B	IL1A	ITGAE	KDM5D	KRT31
HNF1B	HUWE1	IL1B	ITGAM	KDM6A	KRT37
HNF4A	HVCN1	IL1R1	ITGB2	KDM6B	KRT38
HNMT	HYAL1	IL1RAPL1	ITGB3	KDR	KRT4
HNRNPH3	HYDIN	IL1RL1	ITGB4	KEL	KRT5
HNRNPU	HYLS1	IL1RN	ITIH1	KERA	KRT6A
HOGA1	HYMAI	IL2	ITIH3	KHDC3L	KRT6B
HOMER2	IAPP	IL20RA	ITIH4	KHK	KRT6C
HOXA1	IBSP	IL20RB	ITIH6	KIAA0100	KRT74
HOXA10	ICAM1	IL21	ITK	KIAA0196	KRT75
HOXA11	ICAM4	IL21R	ITM2B	KIAA0226	KRT8
HOXA13	ICAM5	IL23R	ITPA	KIAA0232	KRT81
HOXA2	ICK	IL2RA	ITPKC	KIAA0319	KRT83
HOXA4	ICOS	IL2RG	ITPR1	KIAA0513	KRT85
HOXB13	ID3	IL3	ITPR3	KIAA1033	KRT86
HOXB6	IDE	IL31RA	ITSN2	KIAA1199	KRT9
HOXD10	IDH1	IL36RN	IVD	KIAA1279	KRTAP1-1
HOXD13	IDH2	IL4	IYD	KIAA1377	KYNU
HOXD4	IDH3B	IL4R	JAG1	KIAA1432	L1CAM
HP	IDO1	IL5	JAG2	KIAA1462	L2HGDH
HPD	IDS	IL6	JAK2	KIAA2022	L3MBTL1
HPGD	IDUA	IL6R	JAK3	KIF11	LAMA1
HPRT1	IER3IP1	IL7	JAM3	KIF17	LAMA2
HPS1	IFI30	IL7R	JMJD1C	KIF18A	LAMA3
HPS3	IFI44L	IL8	JPH2	KIF1A	LAMA4
HPS4	IFIH1	IL9	JPH3	KIF1B	LAMA5
HPS5	IFITM3	IL9R	JRK	KIF21A	LAMB1
HPS6	IFITM5	ILDR1	JUN	KIF22	LAMB2
HPSE2	IFNA10	ILK	JUP	KIF5A	LAMB3
HR	IFNA17	IMMP2L	KAL1	KIF5B	LAMC1
HRAS	IFNA2	IMMT	KALRN	KIF6	LAMC2
HRC	IFNAR1	IMPA2	KANK1	KIF7	LAMC3
HRG	IFNAR2	IMPAD1	KANSL1	KIFAP3	LAMP2
HRH2	IFNG	IMPDH1	KARS	KIR2DL1	LAMTOR2
HRH3	IFNGR1	IMPDH2	KAT6B	KIR2DL3	LARGE
HS1BP3	IFNGR2	IMPG2	KATNAL2	KIR2DL4	LARS2
HS6ST1	IFNL3	INF2	KBTD13	KIR3DL1	LBP
HSD11B1	IFRD1	INH1	KCNA1	KIR3DL2	LBR
HSD11B2	IFT122	INMT	KCNA3	KIRREL3	LCA5
HSD17B1	IFT140	INPP4A	KCNA5	KISS1	LCAT
HSD17B10	IFT43	INS	KCNAB2	KISS1R	LCE3B

LCE3C	LRP6	MCF2L2	MIR502	MSRB3	MYOT
LCE5A	LRP8	MCFD2	MIR510	MST1	MYOZ2
LCN10	LRPAP1	MCHR1	MIR890	MST1R	MYPN
LCT	LRPPRC	MCL1	MIR892B	MSTN	MYT1
LDB3	LRRC4	MCM3AP	MIR934	MSX1	MYT1L
LDHA	LRRC6	MCM4	MIR96	MSX2	NAA10
LDHB	LRRC8A	MCM5	MIRLET7E	MT1A	NAGA
LDLR	LRRK2	MCM6	MITF	MT2A	NAGLU
LDLRAD4	LRSAM1	MCOLN1	MKKS	MTAP	NAGPA
LDLRAP1	LRTOMT	MCPH1	MKL1	MTCH2	NAGS
LEFTY2	LTA	MDH1	MKRN3	MTFMT	NAIP
LEMD3	LTBP1	MDM2	MKS1	MTHFD1	NAMPT
LEP	LTBP2	MDM4	MLC1	MTHFD1L	NAPRT1
LEPR	LTBP3	MDN1	MLH1	MTHFR	NARS2
LEPRE1	LTBP4	MECP2	MLH3	MTHFS	NAT1
LEPREL1	LTC4S	MED12	MLL3	MTM1	NAT2
LETM1	LTF	MED13	MLPH	MTMR14	NAT8L
LFNG	LTK	MED13L	MLXIPL	MTMR2	NAV2
LGALS13	LTN1	MED17	MLYCD	MTMR9	NBAS
LGALS2	LUM	MED23	MMAA	MTNR1A	NBEA
LGALS3	LY96	MED25	MMAB	MTNR1B	NBEAL2
LG11	LYN	MEF2A	MMACHC	MTO1	NBN
LHB	LYST	MEF2C	MMADHC	MTPAP	NBPF1
LHCGR	LYZ	MEFV	MME	MTR	NCALD
LHFPL5	LZTFL1	MEGF10	MMEL1	MTRR	NCAM1
LHX1	LZTS1	MEGF11	MMP1	MTRR	NCAN
LHX3	MACROD2	MEIS1	MMP10	MTTP	NCAPD2
LHX4	MAD1L1	MEIS2	MMP12	MTUS1	NCF1
LHX8	MAD2L1	MEN1	MMP13	MUC1	NCF2
LIAS	MADD	MEP1B	MMP14	MUC13	NCF2
LIF	MAF	MERTK	MMP2	MUC2	NCF4
LIFR	MAFB	MESDC2	MMP20	MUC3A	NCKAP1
LIG1	MAGEE2	MESP2	MMP7	MUC4	NCOA1
LIG3	MAGEL2	MEST	MMP8	MUC5B	NCOA3
LIG4	MAGI2	MET	MMP9	MUC6	NCR3
LILRA3	MAGT1	MFF	MMP11	MUC7	NCS1
LIM2	MAK	MFGE8	MMP12	MURC	NCSTN
LIMK1	MAMLD1	MF12	MNX1	MUSK	NDE1
LIN28A	MAN1A2	MFN2	MOCOS	MUT	NDN
LIN28B	MAN1B1	MFRP	MOC1	MUTYH	NDOR1
LINS	MAN2B1	MFS2A	MOC2	MVK	NDP
LIPA	MANBA	MFS2B	MOG	MX1	NDRG1
LIPC	MAOA	MFS2D	MOGS	MYB	NDST1
LIPE	MAOB	MGAT1	MOK	MYBL2	NDUFA1
LIPG	MAP2	MGAT2	MPDU1	MYBL3	NDUFA10
LIPH	MAP2K1	MGAT4C	MPDZ	MYBPC1	NDUFA11
LIP1	MAP2K2	MGEA5	MPG	MYBPC3	NDUFA12
LIPN	MAP2K3	MGLL	MPHOSPH8	MYC	NDUFA13
LITAF	MAP2K4	MGMT	MPI	MYCL	NDUFA2
LLGL1	MAP3K1	MGP	MPL	MYCN	NDUFA3
LMAN1	MAP3K15	MGST2	MPLKIP	MYD88	NDUFA4
LMBR1	MAP4K5	MGST3	MPO	MYF6	NDUFA6
LMBRD1	MAP6	MIA3	MPP3	MYH11	NDUFA7
LMF1	MAP7D3	MIAT	MPP4	MYH13	NDUFA8
LMNA	MAPK10	MICA	MPP6	MYH14	NDUFA9
LMNB1	MAPK8IP1	MICB	MPP7	MYH15	NDUFAF1
LMNB2	MAPT	MID1	MPST	MYH2	NDUFAF2
LMTK3	MARS2	MIF	MPV17	MYH3	NDUFAF3
LMX1B	MARVELD2	MIIIP	MPZ	MYH6	NDUFAF4
LN2	MASP1	MINPP1	MR1	MYH7	NDUFAF5
loc344967	MASP2	MIP	MRAP	MYH8	NDUFAF6
LOR	MAST4	MIPOL1	MRC1	MYH9	NDUFAF7
LOX	MASTL	MIR106B	MRC1	MYL2	NDUFB1
LOXHD1	MAT1A	MIR124-1	MRE11A	MYL3	NDUFB3
LOXL1	MATN3	MIR125A	MRPL3	MYLIP	NDUFB6
LOXL2	MATR3	MIR126	MRPL48	MYLK	NDUFB9
LPA	MAVS	MIR140	MRPS16	MYLK2	NDUFC2
LPAR1	MAX	MIR146A	MRPS22	MYO15A	NDUFS1
LPAR6	MBD1	MIR146A-1	MRRF	MYO18B	NDUFS2
LPIN1	MBD3	MIR16-1	MS4A1	MYO1A	NDUFS3
LPIN2	MBD4	MIR17	MS4A12	MYO1C	NDUFS4
LPIN3	MBD5	MIR17HG	MS4A2	MYO1E	NDUFS5
LPL	MBL2	MIR182	MS4A3	MYO1F	NDUFS6
LPP	MBTPS2	MIR184	MS4A6A	MYO3A	NDUFS7
LRAT	MC1R	MIR191	MS4A6E	MYO5A	NDUFS8
LRCH1	MC2R	MIR196A2	MSH2	MYO5B	NDUFV1
LRFN5	MC3R	MIR206	MSH3	MYO6	NDUFV2
LRP1	MC4R	MIR24-1	MSH4	MYO7A	NDUFV3
LRP2	MCCC1	MIR27A	MSH5	MYO7B	NEB
LRP4	MCCC2	MIR2861	MSH6	MYO9B	NEBL
LRP5	MCEE	MIR30C1	MSMB	MYOC	NEDD4L
		MIR34B	MSMO1	MYOCD	NEDD9
		MIR499A	MSR1	MYOM1	NEFH

NEFL	NPC1	OCA2	PCCA	PGK1	PLCZ1
NEFM	NPC1L1	OCLN	PCCB	PGM1	PLD2
NEGR1	NPC2	OCRL	PCDH11X	PGR	PLEC
NEIL1	NPFFR2	ODC1	PCDH15	PGRMC1	PLEKHG4
NEIL2	NPHP1	OFD1	PCDH18	PHB	PLEKHG5
NEK1	NPHP3	OGG1	PCDH19	PHEX	PLEKHM1
NEK8	NPHP4	OLFM2	PCDH9	PHF11	PLG
NELFA	NPHS1	OLR1	PCDHA10	PHF2	PLIN1
NELL1	NPHS2	OMG	PCDHA13	PHF3	PLIN4
NEU1	NPL	OPA1	PCDHB4	PHF6	PLN
NEU2	NPM1	OPA3	PCK1	PHF8	PLOD1
NEUROD1	NPPA	OPCML	PCK2	PHGDH	PLOD2
NEUROG3	NPPB	OPHN1	PCM1	PHIP	PLOD3
NEXN	NPCC	OPN1LW	PCMT1	PHKA1	PLP1
NF1	NPR1	OPN1MW	PCNT	PHKA2	PLP2
NF2	NPR2	OPN1SW	PCOLCE	PHKB	PLTP
NFATC4	NPR3	OPN4	PCSK1	PHKG2	PLXND1
NFE2L2	NPSR1	OPRD1	PCSK2	PHLDA2	PMAIP1
NFIA	NPTN	OPRK1	PCSK9	PHLPP2	PML
NFIX	NPY	OPRL1	PDCD1	PHOX2A	PMM2
NFKB1	NPY1R	OPRM1	PDCD10	PHOX2B	PMP22
NFKBIA	NPY2R	OPTC	PDCD5	PHYH	PMPCA
NFKBIL1	NQO1	OPTN	PDE10A	PI3	PMS1
NFU1	NQO2	OR13G1	PDE11A	PICALM	PMS2
NGF	NROB1	OR7D4	PDE4B	PICK1	PMS2P3
NGFR	NROB2	ORAI1	PDE4D	PIEZO2	PNKD
NHEJ1	NR1H2	ORC1	PDE6A	PIF1	PNKP
NHLRC1	NR1H3	ORC4	PDE6B	PIGA	PNMT
NHP2	NR1H4	ORC6	PDE6C	PIGL	PNP
NHS	NR1I2	ORMDL3	PDE6G	PIGM	PNPLA1
NID1	NR1I3	OSMR	PDE6H	PIGN	PNPLA2
NINJ1	NR2E1	OSR1	PDE7B	PIGO	PNPLA3
NIPA1	NR2E3	OSTM1	PDE8B	PIGR	PNPLA6
NIPAL4	NR2F1	OTC	PDGFB	PIGV	PNPO
NIPBL	NR3C1	OTOA	PDGFC	PIK3C2G	POF1B
NIPSNAP1	NR3C2	OTOF	PDGFRA	PIK3C3	POGZ
NIPSNAP3A	NR4A2	OTOR	PDHA1	PIK3CA	POLB
NKAIN2	NR5A1	OTX2	PDHB	PIK3CB	POLD1
NKX2-1	NRAS	OVGP1	PDHX	PIK3CD	POLE2
NKX2-3	NRG1	OXCT1	PDLIM3	PIK3CG	POLG
NKX2-5	NRG3	OXTR	PDLIM5	PIK3R1	POLG2
NKX2-6	NRIP1	P2RX1	PDP1	PIK3R2	POLH
NKX3-1	NRL	P2RX4	PDPK1	PIK3R4	POLL
NKX3-2	NRP2	P2RX5	PDSS1	PIK3R5	POLR1C
NLGN1	NRTN	P2RX7	PDSS2	PIKFYVE	POLR1D
NLGN2	NRXN1	P2RY11	PDX1	PIN1	POLR2E
NLGN3	NRXN2	P2RY12	PDXK	PINK1	POLR2M
NLGN4X	NRXN3	P2RY4	PDYN	PIP4K2A	POLR3A
NLGN4Y	NSD1	PABPC4L	PDZD7	PIP5K1B	POLR3B
NLRP1	NSDHL	PABPN1	PEAR1	PIP5K1C	POLRMT
NLRP12	NSMF	PACRG	PECAM1	PITPNM3	POMC
NLRP14	NSUN2	PAFAH1B1	PECR	PITX1	POMGNT1
NLRP2	NSUN7	PAFAH1B3	PEMT	PITX2	POMP
NLRP3	NT5C1B	PAH	PENK	PITX3	POMT1
NLRP7	NT5C3A	PAK3	PEPD	PIWIL3	POMT2
NLRX1	NT5E	PAK7	PER1	PKD1	PON1
NMB	NTF3	PALB2	PER2	PKD1L1	PON2
NME1	NTF4	PALLD	PER3	PKD2	PON3
NME8	NTHL1	PANK2	PEX1	PKHD1	POP1
NMNAT1	NTNG1	PAPD7	PEX10	PKLR	POR
NMT2	NTRK1	PAPSS2	PEX11B	PKM	PORCN
NMU	NTRK2	PARD3B	PEX12	PKN3	POU1F1
NOBOX	NTRK3	PARD6A	PEX13	PKP1	POU3F4
NOD1	NUAK1	PARK2	PEX14	PKP2	POU4F3
NOD2	NUBPL	PARK7	PEX16	PLA2G10	POU5F1
NODAL	NUDC	PARL	PEX19	PLA2G2A	POU5F1B
NOG	NUDT1	PARP1	PEX2	PLA2G2D	POU6F2
NOP10	NUDT6	PARP2	PEX26	PLA2G4A	PPARA
NOP56	NUMBL	PASK	PEX3	PLA2G4C	PPARD
NOS1	NUP155	PAWR	PEX5	PLA2G5	PPARG
NOS1AP	NUP62	PAX1	PEX6	PLA2G6	PPARGC1A
NOS2	NXF3	PAX2	PEX7	PLA2G7	PPARGC1B
NOS3	NXF5	PAX3	PFAS	PLAGL1	PPAT
NOTCH1	NXNL1	PAX4	PFKM	PLAT	PPIA
NOTCH2	NYX	PAX5	PFN1	PLAU	PPIB
NOTCH3	OAS1	PAX6	PGAM1	PLAUR	PPIG
NOTCH4	OAS2	PAX7	PGAM2	PLCB1	PPM1D
NPAP1	OAT	PAX8	PGAM5	PLCB4	PPOX
NPAS2	OAZ1	PAX9	PGBD1	PLCD1	PPP1R1A
NPAS3	OBSCN	PC	PGC	PLCE1	PPP1R3A
NPAT	OBSL1	PCBD1	PGD	PLCG2	PPP1R3C

PPP2R1A	PSMD7	RAD23B	RMI1	RYR2	SEPN1
PPP2R1B	PSPH	RAD50	RMRP	RYR3	SEPP1
PPP2R2B	PSPN	RAD51	RNASE3	S100A14	SEPSECS
PPP2R2C	PSTPIP1	RAD51C	RNASEH2A	S100B	SEPT12
PPT1	PTAFR	RAD51D	RNASEH2B	S1PR1	SEPT9
PQBP1	PTCD1	RAD52	RNASEH2C	SAA1	SERPINA1
PRB1	PTCH1	RAD54B	RNASEL	SAA2	SERPINA10
PRB3	PTCH2	RAD54L	RNASET2	SACS	SERPINA3
PRB4	PTCHD1	RAD9A	RNF113A	SAG	SERPINA6
PRCD	PTCHD3	RAET1L	RNF114	SAGE1	SERPINA7
PRCP	PTCSC3	RAF1	RNF135	SALL1	SERPINB11
PRDM2	PTEN	RAG1	RNF139	SALL4	SERPINB3
PRDM5	PTF1A	RAG2	RNF168	SAMD9	SERPINB5
PRDM9	PTGDR	RAI1	RNF170	SAMHD1	SERPINB6
PREPL	PTGDR2	RALGAPA1	RNF213	SAR1B	SERPINC1
PRF1	PTGDS	RALGDS	RNLS	SARDH	SERPIND1
PRG4	PTGER2	RANBP2	RNU4ATAC	SARS2	SERPINE1
PRICKLE1	PTGER4	RANGRF	ROBO1	SART1	SERPINF1
PRICKLE2	PTGES2	RAPSN	ROBO2	SART3	SERPINF2
PRKAA2	PTGIR	RARS2	ROBO3	SAT1	SERPING1
PRKACA	PTGIS	RASA1	ROCK1	SATB2	SERPINH1
PRKAG2	PTGS1	RASGRP2	ROCK2	SATL1	SERPINI1
PRKAG3	PTGS2	RASSF1	ROGDI	SBDS	SERPINI2
PRKAR1A	PTH	RAX	ROM1	SBF2	SERTAD1
PRKCB	PTH1R	RAX2	ROPN1L	SBN01	SES2
PRKCG	PTHLH	RB1	ROR2	SC5DL	SETBP1
PRKCH	PTK7	RB1CC1	RORA	SCAP	SETD2
PRKCSH	PTPN1	RBBP8	ROS1	SCARB1	SETD8
PRKD3	PTPN11	RBFOX1	RP1	SCARB2	SETDB2
PRKDC	PTPN13	RBM10	RP1L1	SCARF2	SETX
PRKRA	PTPN14	RBM15	RP2	SCG2	SEZ6
PRL	PTPN2	RBM20	RP9	SCG3	SEZ6L2
PRLHR	PTPN21	RBM28	RPA1	SCGB1A1	SF3B4
PRLR	PTPN22	RBM8A	RPA4	SCGB1D2	SFTPA1
PRM1	PTPN6	RBMXL2	RPE65	SCGB3A2	SFTPA2
PRM2	PTPRB	RBMYL1A1	RPGR	SCN10A	SFTPB
PRMT10	PTPRC	RBP3	RPGRIP1	SCN1A	SFTPC
PRMT3	PTPRCAP	RBP4	RPGRIP1L	SCN1B	SFTPD
PRMT7	PTPRD	RCAN1	RPH3AL	SCN2A	SGCA
PRND	PTPRF	RD3	RPIA	SCN2B	SGCB
PRNP	PTPRJ	RDH12	RPL10	SCN3A	SGCD
PROC	PTPRK	RDH5	RPL11	SCN3B	SGCE
PROCR	PTPRO	RDX	RPL21	SCN4A	SGCG
PRODH	PTPRQ	RECQL4	RPL35A	SCN4B	SGK1
PROK1	PTPRT	REEP1	RPL36	SCN5A	SGK110
PROK2	PTRF	RELN	RPL5	SCN8A	SGK223
PROKR1	PTS	REN	RPN2	SCN9A	SGSH
PROKR2	PUS1	REPS2	RPS10	SCNN1A	SH2B1
PROM1	PVR	RET	RPS15	SCNN1B	SH2B3
PROP1	PVRL1	RETN	RPS17	SCNN1G	SH2D1A
PROS1	PVRL3	REV3L	RPS19	SCO1	SH3BP2
PROZ	PVRL4	RFC2	RPS24	SCO2	SH3GL1
PRPF3	PVT1	RFT1	RPS26	SCP2	SH3PXD2B
PRPF31	PWRN1	RFWD2	RPS27A	SCRIB	SH3TC2
PRPF6	PXDN	RFX2	RPS3	SCT	SHANK2
PRPF8	PYCR1	RFX5	RPS4Y2	SCUBE2	SHANK3
PRPH	PYCR1	RFX6	RPS6KA3	SDC3	SHBG
PRPH2	PYGL	RFX8	RPS6KB1	SDCCAG8	SHFM1
PRPS1	PYGM	RFXANK	RPS6KL1	SDHA	SHH
PRRC2A	PYY	RFXAP	RPS7	SDHAF1	SHMT1
PRRT2	PZP	RGMA	RPTOR	SDHAF2	SHOC2
PRRX1	QDPR	RGR	RRH	SDHB	SHOX
PRSS1	QKI	RGS2	RRM1	SDHC	SHROOM3
PRSS12	RAB11FIP5	RGS6	RRM2B	SDHD	SHROOM4
PRSS2	RAB18	RGS7	RRP1B	SEC23A	SI
PRSS3P2	RAB23	RGS9	RS1	SEC23B	SIAE
PRSS56	RAB27A	RGS9BP	RSPH4A	SEC63	SIGLEC12
PRSS8	RAB28	RHAG	RSPH9	SECISBP2	SIGLEC14
PRX	RAB2A	RHBDP2	RSP01	SEL1L	SIGLEC16
PRY	RAB39B	RHCE	RSP04	SELE	SIGMAR1
PRY2	RAB3GAP1	RHD	RSRC1	SELL	SIL1
PSAP	RAB3GAP2	RHO	RTN2	SELP	SIM1
PSAT1	RAB40AL	RHOB	RTN4R	SELPLG	SIPA1
PSCA	RAB7A	RHOG	RUNX1	SEMA3A	SIRT1
PSEN1	RAB7L1	RHPN2	RUNX2	SEMA3E	SIRT3
PSEN2	RABGGTA	RIMS1	RUNX3	SEMA4A	SIRT5
PSENE1	RABL6	RIMS3	RUVBL1	SEMA4C	SIX1
PSMA6	RAC1	RIN2	RXFP2	SEMA4G	SIX2
PSMB8	RAC2	RIPK3	RXRG	SEMA6D	SIX3
PSMB9	RAD21	RIPK4	RYK	SEMG1	SIX5
PSMC3IP	RAD21L1	RLBP1	RYR1	SEP15	SIX6



SKI	SLC33A1	SMC3	SPRED1	SUMO1	TCF21
SKIV2L	SLC34A1	SMG1	SPRN	SUMO4	TCF4
SLBP	SLC34A2	SMG6	SPRR3	SUN2	TCF7
SLC10A1	SLC34A3	SMN1	SPRY2	SUOX	TCF7L1
SLC10A2	SLC35A1	SMN2	SPRY3	SUPT16H	TCF7L2
SLC11A1	SLC35C1	SMNDC1	SPTA1	SURF1	TCIRG1
SLC11A2	SLC35D1	SMOC1	SPTAN1	SUV420H1	TCN1
SLC12A1	SLC35G2	SMOC2	SPTB	SV2B	TCN2
SLC12A3	SLC36A2	SMPD1	SPTBN2	SYCP3	TCOF1
SLC12A6	SLC37A4	SMPX	SPTBN5	SYN1	TCP1
SLC13A2	SLC39A13	SMS	SPTLC1	SYN3	TCTE1
SLC14A1	SLC39A4	SMUG1	SPTLC2	SYNE1	TCTE3
SLC14A2	SLC3A1	SMYD3	SQSTM1	SYNE2	TCTN1
SLC15A1	SLC40A1	SNAI2	SRC	SYNGAP1	TCTN2
SLC16A1	SLC41A1	SNAP29	SRCAP	SYNGR1	TDGF1
SLC16A12	SLC44A2	SNAPC4	SRD5A2	SYNM	TD02
SLC16A2	SLC45A2	SNAPC5	SRD5A3	SYNPO	TDP1
SLC16A3	SLC46A1	SNCA	SREBF1	SYP	TDRD7
SLC17A1	SLC47A1	SNCAIP	SREBF2	SYT11	TEAD1
SLC17A3	SLC47A2	SNCB	SREK1	SYT14	TECR
SLC17A5	SLC4A1	SNIP1	SRGAP2	SYT2	TECTA
SLC17A8	SLC4A10	SNORD115-1	SRGAP3	SYTL3	TEK
SLC18A1	SLC4A11	SNORD116-10	SRI	SYTL5	TEKT2
SLC19A1	SLC4A3	SNORD116-1	SRP72	T	TENM4
SLC19A2	SLC4A4	SNORD50A	SRPX	TAAR6	TEP1
SLC19A3	SLC52A1	SNRK	SRPX2	TAAR9	TERC
SLC1A1	SLC52A3	SNRNP200	SRR	TAB2	TERT
SLC1A2	SLC5A1	SNRPN	SRY	TAC3	TET1
SLC1A3	SLC5A11	SNTA1	SSH1	TACO1	TEX14
SLC20A2	SLC5A2	SNTG2	SST	TACR3	TF
SLC22A1	SLC5A5	SNURF	SSTR2	TACSTD2	TFAM
SLC22A11	SLC5A7	SNX10	SSTR5	TAF1	TFAP2A
SLC22A12	SLC6A1	SNX19	SSX7	TAF15	TFAP2B
SLC22A14	SLC6A11	SNX3	ST14	TAF1C	TFB1M
SLC22A2	SLC6A12	SOBP	ST3GAL3	TAF1L	TFCP2
SLC22A3	SLC6A13	SOCS1	ST3GAL5	TAF2	TFE1
SLC22A4	SLC6A14	SOCS3	ST5	TAF7L	TFPI
SLC22A5	SLC6A18	SOD1	ST7	TAL1	TFR2
SLC22A6	SLC6A19	SOD2	ST8SIA2	TALDO1	TFRC
SLC22A9	SLC6A2	SOD3	STAR	TAP1	TG
SLC23A1	SLC6A20	SOGA3	STAT1	TAP2	TGFB1
SLC24A1	SLC6A3	SOHLH1	STAT3	TAPBP	TGFB2
SLC24A2	SLC6A4	SORBS1	STAT5B	TARDBP	TGFB3
SLC24A5	SLC6A5	SORCS1	STAT6	TAS1R1	TGFB1
SLC25A12	SLC6A8	SORL1	STEAP3	TAS1R2	TGFB1R1
SLC25A13	SLC7A1	SORT1	STEAP4	TAS1R3	TGFB1R2
SLC25A15	SLC7A10	SOS1	STH	TAS2R16	TGFB1R3
SLC25A19	SLC7A2	SOST	STIL	TAS2R19	TGFB1RAP1
SLC25A20	SLC7A5	SOX10	STIM1	TAS2R3	TGIF1
SLC25A22	SLC7A7	SOX17	STK10	TAS2R38	TGM1
SLC25A3	SLC7A9	SOX18	STK11	TAS2R43	TGM2
SLC25A38	SLC8A1	SOX2	STK19	TAS2R46	TGM5
SLC25A39	SLC9A3R1	SOX3	STK3	TAS2R50	TGM6
SLC25A4	SLC9A6	SOX5	STK32A	TAS2R9	TH
SLC26A1	SLC9A9	SOX6	STK33	TAT	THADA
SLC26A10	SLC01A2	SOX8	STK39	TAZ	THAP1
SLC26A2	SLC01B1	SOX9	STK4	TBC1D1	THBD
SLC26A3	SLC01B3	SP100	STMN1	TBC1D23	THBS1
SLC26A4	SLC01C1	SP110	STOX1	TBC1D24	THBS2
SLC26A5	SLC02A1	SP7	STRA6	TBC1D4	THBS4
SLC26A6	SLC02B1	SP8	STRADA	TBCE	THPO
SLC26A9	SLFN5	SPAG16	STRC	TBK1	THRA
SLC27A4	SLIT3	SPAG17	STS	TBL1X	THRB
SLC27A5	SLITRK1	SPANXN5	STX11	TBL1XR1	THSD7A
SLC28A1	SLURP1	SPAST	STX16	TBL1Y	TICAM1
SLC28A2	SLX4	SPATA13	STX1A	TBP	TIMM44
SLC28A3	SMAD1	SPATA16	STXBP1	TBX1	TIMM8A
SLC29A1	SMAD2	SPATA21	STXBP2	TBX10	TIMP1
SLC29A2	SMAD3	SPATA31C1	STXBP5	TBX15	TIMP2
SLC29A3	SMAD4	SPATA7	SUCLA2	TBX19	TIMP3
SLC29A4	SMAD6	SPECC1L	SUCLG1	TBX2	TINAG
SLC2A1	SMAD7	SPG11	SUFU	TBX20	TINF2
SLC2A10	SMAD9	SPG20	SULF1	TBX21	TIRAP
SLC2A2	SMARCA2	SPG21	SULT1A1	TBX22	TJP2
SLC2A4	SMARCA4	SPG7	SULT1A3	TBX3	TK2
SLC2A9	SMARCAD1	SPI1	SULT1C2	TBX4	TLK1
SLC30A10	SMARCAL1	SPINK1	SULT1E1	TBX5	TLL1
SLC30A2	SMARCB1	SPINK5	SULT2A1	TBX6	TLR1
SLC30A5	SMARCE1	SPINT2	SULT2B1	TBXA2R	TLR10
SLC30A8	SMC1A	SPP1	SULT4A1	TBXAS1	TLR2
SLC31A1	SMC1B	SPR	SUMF1	TCAP	TLR3

TLR4	TP53RK	TSPAN17	UMOD	WDR45B	ZIC2
TLR5	TP63	TSPAN7	UMPS	WDR62	ZIC3
TLR6	TP73	TSPAN7	UNC119	WDR65	ZMPSTE24
TLR7	TPCN2	TSPYL1	UNC13D	WDR72	ZMYND11
TLR8	TPH1	TSSC4	UNC5C	WDR81	ZNF202
TLR9	TPH2	TSSK2	UNC5CL	WFS1	ZNF213
TM4SF19	TP11	TSSK3	UNC80	WHSC1	ZNF224
TMC1	TPK1	TSSK4	UNC93A	WIPF1	ZNF24
TMC6	TPM1	TST	UNC93B1	WISP3	ZNF335
TMC8	TPM2	TTBK2	UNG	WNK1	ZNF350
TMCO1	TPM3	TTC19	UNKL	WNK4	ZNF365
TMEM114	TPMT	TTC21B	UPB1	WNT10A	ZNF385B
TMEM126A	TPO	TTC37	UPF3B	WNT10B	ZNF41
TMEM127	TPP1	TTC8	UPK3A	WNT3	ZNF469
TMEM135	TPP2	TTI2	UQCRB	WNT4	ZNF480
TMEM138	TPRN	TLL11	UQCRQ	WNT5A	ZNF507
TMEM165	TPSB2	TTN	UROC1	WNT5B	ZNF513
TMEM173	TPTE	TPA	UROD	WNT7A	ZNF526
TMEM185A	TRAC	TTR	UROS	WRAP53	ZNF592
TMEM187	TRADD	TTY13	USB1	WRN	ZNF627
TMEM2	TRAF3	TUBA1A	USF1	WT1	ZNF644
TMEM216	TRAF3IP1	TUBA8	USH1C	WT1-AS	ZNF674
TMEM237	TRAF3IP2	TUBB1	USH1G	WWC1	ZNF711
TMEM39A	TRAF6	TUBB2B	USH2A	WVVOX	ZNF750
TMEM43	TRAK2	TUBB3	USP15	XBP1	ZNF75D
TMEM67	TRAPPC10	TUBGCP4	USP24	XDH	ZNF80
TMEM70	TRAPPC2	TUBGCP5	USP26	XIAP	ZNF804A
TMEM8A	TRAPPC9	TUBGCP6	USP46	XIST	ZNF81
TMEM9	TRB	TUFM	USP7	XK	ZNHIT6
TMIE	TRBV9	TULP1	USP9X	XKR4	ZNRF1
TMLHE	TRDN	TULP3	USP9Y	XKRY	ZPBP
TMPO	TREM2	TUSC3	UTF1	XPA	ZPBP2
TMPRSS11A	TRERF1	TWIST1	UTRN	XPC	
TMPRSS15	TREX1	TWIST2	UTS2	XPNPEP2	
TMPRSS3	TRHR	TXN2	UVSSA	XPNPEP3	
TMPRSS4	TRIB1	TXNRD2	VAMP7	XRCC1	
TMPRSS5	TRIB3	TYK2	VANGL1	XRCC2	
TMPRSS6	TRIL	TYMP	VANGL2	XRCC3	
TNC	TRIM17	TYMS	VAPB	XRCC4	
TNF	TRIM21	TYR	VAX1	XRCC5	
TNFAIP2	TRIM22	TYROBP	VCAM1	XRCC6	
TNFAIP3	TRIM32	TYRP1	VCAN	XYLT1	
TNFRSF10A	TRIM37	UBA1	VCL	XYLT2	
TNFRSF10B	TRIM5	UBA3	VCP	YAP1	
TNFRSF11A	TRIO	UBAC2	VCX3A	YARS	
TNFRSF11B	TRIOBP	UBD	VCY	YARS2	
TNFRSF13B	TRIP11	UBE2A	VDR	YBX2	
TNFRSF13C	TRIP12	UBE2B	VEGFA	YTHDF2	
TNFRSF1A	TRMT1	UBE2I	VHL	YWHAE	
TNFRSF1B	TRMU	UBE2NL	VIM	YY1	
TNFRSF25	TRD	UBE3A	VIMP	ZAN	
TNFRSF4	TROAP	UBE3C	VIP	ZAP70	
TNFSF10	TROVE2	UBIAD1	VIPAS39	ZBTB16	
TNFSF11	TRPA1	UBN2	VIPR2	ZBTB18	
TNFSF13B	TRPC3	UBQLN2	VKORC1	ZBTB24	
TNFSF14	TRPC4	UBR1	VLDLR	ZBTB40	
TNFSF15	TRPC5	UBR3	VMA21	ZBTB41	
TNFSF4	TRPC6	UBR7	VNN1	ZC3H14	
TNFSF8	TRPM1	UCHL1	VPREB1	ZC3H3	
TNKS	TRPM2	UCP1	VPS13A	ZC3HAV1	
TNNC1	TRPM3	UCP2	VPS13B	ZCCHC12	
TNNI2	TRPM4	UCP3	VPS33B	ZCCHC13	
TNNI3	TRPM6	UFD1L	VPS35	ZCCHC8	
TNNI3K	TRPM7	UGT1A1	VRK1	ZDHHHC15	
TNNT1	TRPS1	UGT1A10	VSIG4	ZDHHHC8	
TNNT2	TRPV1	UGT1A3	VSX1	ZDHHHC9	
TNNT3	TRPV3	UGT1A4	VSX2	ZEB1	
TNP1	TRPV4	UGT1A5	VTN	ZEB2	
TNR	TRPV5	UGT1A6	VWF	ZFAT	
TNS3	TRRAP	UGT1A7	WAS	ZFHX3	
TNXB	TSC1	UGT1A8	WASF3	ZFHX4	
TOMM40	TSC2	UGT1A9	WDFY3	ZFP36	
TOP1MT	TSEN2	UGT2A1	WDFY4	ZFP36L1	
TOPBP1	TSEN34	UGT2A3	WDPCP	ZFP57	
TOPORS	TSEN54	UGT2B10	WDR11	ZFP90	
TOR1A	TSFM	UGT2B15	WDR13	ZFPM2	
TOX3	TSHB	UGT2B17	WDR19	ZFY	
TP53	TSHR	UGT2B28	WDR35	ZFYVE26	
TP53AIP1	TSHZ1	UGT2B7	WDR36	ZFYVE27	
TP53BP1	TSLP	UHRF1BP1	WDR4	ZHX3	
TP53I3	TSPAN12	UIMC1	WDR45	ZIC1	