

geneName

A2M
A4GALT
A4GNT
AAAS
AADAC
AADACL2
AAGAB
AANAT
AARS
AARS2
AASS
ABAT
ABCA1
ABCA10
ABCA12
ABCA13
ABCA2
ABCA3
ABCA4
ABCB1
ABCB11
ABCB4
ABCB6
ABCB7
ABCC1
ABCC11
ABCC12
ABCC2
ABCC3
ABCC4
ABCC6
ABCC8
ABCC9
ABCD1
ABCD3
ABCD4
ABCG2
ABCG5
ABCG8
ABHD12
ABHD5
ABI3BP
ABL1
ABL2
ABO

ACACA
ACACB
ACAD10
ACAD11
ACAD8
ACAD9
ACADL
ACADM
ACADS
ACADSB
ACADVL
ACAN
ACAT1
ACAT2
ACBD5
ACBD6
ACCS
ACE
ACHE
ACKR1
ACLY
ACO2
ACOX1
ACP1
ACP2
ACP5
ACSF3
ACSL4
ACSL5
ACSL6
ACSM3
ACTA1
ACTA2
ACTB
ACTC1
ACTG1
ACTN1
ACTN2
ACTN4
ACVR1
ACVR1B
ACVR1C
ACVR2A
ACVR2B
ACVRL1
ACY1

ADA
ADAM10
ADAM12
ADAM17
ADAM19
ADAM22
ADAM23
ADAM33
ADAM7
ADAM9
ADAMTS1
ADAMTS10
ADAMTS13
ADAMTS17
ADAMTS18
ADAMTS19
ADAMTS2
ADAMTSL2
ADAMTSL3
ADAMTSL4
ADAR
ADARB1
ADCK3
ADCY10
ADCY3
ADCY5
ADCY6
ADCY9
ADD1
ADD2
ADH1A
ADH1B
ADH1C
ADH4
ADH7
ADIPOQ
ADIPOR1
ADK
ADM
ADORA2A
ADRA1A
ADRA2A
ADRA2B
ADRA2C
ADRB1
ADRB2

ADRB3
ADRBK2
ADSL
ADTRP
AFF2
AFF3
AFG3L2
AFP
AGA
AGBL1
AGGF1
AGK
AGL
AGMO
AGO1
AGPAT2
AGPS
AGRN
AGRP
AGT
AGTPBP1
AGTR1
AGTR2
AGXT
AGXT2
AHCY
AHI1
AHR
AHRR
AHSG
AHSP
AICDA
AIFM1
AIMP1
AIP
AIPL1
AIRE
AK1
AK2
AK7
AK8
AKAP10
AKAP2
AKAP9
AKR1B1
AKR1C1

AKR1C2
AKR1C3
AKR1C4
AKR1D1
AKR7A2
AKR7A3
AKT1
AKT2
AKT3
ALAD
ALAS2
ALB
ALDH16A1
ALDH18A1
ALDH1A1
ALDH1A2
ALDH2
ALDH3A2
ALDH4A1
ALDH5A1
ALDH6A1
ALDH7A1
ALDOA
ALDOB
ALG1
ALG11
ALG12
ALG13
ALG14
ALG1L
ALG1L2
ALG2
ALG3
ALG5
ALG6
ALG8
ALG9
ALK
ALMS1
ALOX12
ALOX12B
ALOX15
ALOX5
ALOX5AP
ALOXE3
ALPL

ALS2
ALS2CL
ALX1
ALX3
ALX4
AMACR
AMBN
AMELX
AMELY
AMER1
AMH
AMHR2
AMN
AMPD1
AMPD3
AMT
ANG
ANGPT2
ANGPTL3
ANGPTL4
ANGPTL5
ANGPTL6
ANK1
ANK2
ANK3
ANKH
ANKK1
ANKRD1
ANKRD11
ANKRD26
ANKS1A
ANKS6
ANO10
ANO3
ANO5
ANO6
ANO7
ANTXR1
ANTXR2
ANXA5
AOAH
AP1S1
AP1S2
AP3B1
AP3B2
AP3D1

AP4B1
AP4E1
AP4M1
AP4S1
AP5Z1
APAF1
APBA2
APBB1IP
APBB2
APC
APCDD1
APEX1
APOA1
APOA2
APOA4
APOA5
APOB
APOBEC1
APOBEC3H
APOC2
APOC4
APOD
APOE
APOH
APOL1
APOL3
APOL4
APOOL
APP
APRT
APTX
AQP1
AQP2
AQP3
AQP4
AQP5
AQP7
AR
ARF4
ARFGEF2
ARG1
ARHGAP18
ARHGAP24
ARHGAP26
ARHGAP31
ARHGAP6

ARHGAP9
ARHGDIA
ARHGEF10
ARHGEF12
ARHGEF6
ARHGEF7
ARHGEF9
ARID1A
ARID1B
ARID4A
ARID4B
ARL13B
ARL14EP
ARL3
ARL6
ARMS2
ARSA
ARSB
ARSE
ART4
ARX
AS3MT
ASAH1
ASB10
ASCC1
ASCC3
ASCL1
ASIC3
ASIP
ASL
ASMT
ASNS
ASPA
ASPM
ASPN
ASPRV1
ASS1
ASTE1
ASTN2
ASXL1
ATCAY
ATF3
ATF6
ATG16L1
ATG7
ATG9B

ATIC
ATL1
ATM
ATN1
ATOH7
ATP10A
ATP10D
ATP13A2
ATP13A4
ATP1A2
ATP1A3
ATP1A4
ATP1B1
ATP2A1
ATP2A2
ATP2A3
ATP2B2
ATP2B3
ATP2B4
ATP2C1
ATP5J2-PTCD1
ATP5SL
ATP6AP2
ATP6V0A2
ATP6V0A4
ATP6V1B1
ATP7A
ATP7B
ATP8A2
ATP8B1
ATPAF2
ATR
ATRNL1
ATRX
ATXN1
ATXN10
ATXN2
ATXN3
ATXN3L
ATXN7
AUH
AURKA
AURKC
AUTS2
AVP
AVPR1A

AVPR2
AXDND1
AXIN1
AXIN2
AXL
AZIN2
B2M
B3GALNT1
B3GALNT2
B3GALT1
B3GALT2
B3GALT5
B3GALT6
B3GALTL
B3GAT1
B3GAT2
B3GAT3
B3GNT1
B3GNT2
B3GNT3
B3GNT4
B3GNT5
B3GNT6
B3GNT7
B3GNT8
B4GALNT1
B4GALNT2
B4GALNT3
B4GALNT4
B4GALT1
B4GALT2
B4GALT3
B4GALT4
B4GALT5
B4GALT6
B4GALT7
B9D1
B9D2
BAAT
BAG3
BANF1
BANK1
BAP1
BARD1
BARX2
BAX

BAZ1B
BBS1
BBS10
BBS12
BBS2
BBS4
BBS5
BBS7
BBS9
BCAM
BCAT2
BCHE
BCKDHA
BCKDHB
BCKDK
BCL10
BCL11A
BCL2
BCL2L1
BCL2L11
BCL2L2
BCL2L2-PABPN1
BCL6
BCL9
BCO1
BCOR
BCORL1
BCR
BCS1L
BDNF
BEAN1
BEST1
BFSP1
BFSP2
BGN
BHLHA9
BHLHE41
BICC1
BIN1
BIVM-ERCC5
BLK
BLM
BLMH
BLNK
BLOC1S5
BLOC1S6

BLVRA
BMI1
BMP1
BMP15
BMP2
BMP4
BMP5
BMP7
BMPER
BMPR1A
BMPR1B
BMPR2
BNC2
BOC
BOLA3
BPGM
BRAF
BRAT1
BRCA1
BRCA2
BRCC3
BRD1
BRD2
BRF1
BRIP1
BRSK2
BRWD1
BRWD3
BSCL2
BSG
BSND
BTBD9
BTD
BTK
BUB1
BUB1B
C10orf105
C10orf55
C12orf29
C12orf57
C15orf62
C16orf58
C17orf107
C18orf8
C19orf66
C1GALT1

C1GALT1C1
C1QA
C1QB
C1QC
C1QTNF5
C1R
C1S
C21orf91
C2orf42
C2orf71
C3
C3AR1
C4orf19
C4orf26
C5
C5AR2
C5orf42
C6
C7
C8A
C8B
C8orf37
C9
C9orf139
C9orf66
C9orf72
CA1
CA12
CA2
CA4
CA8
CABIN1
CABP2
CABP4
CACNA1A
CACNA1C
CACNA1D
CACNA1E
CACNA1F
CACNA1G
CACNA1H
CACNA1I
CACNA1S
CACNA2D1
CACNA2D2
CACNA2D3

CACNA2D4
CACNB2
CACNB4
CACNG2
CACNG3
CACNG4
CADM1
CADPS2
CALCA
CALCB
CALCR
CALCRL
CALHM1
CALM1
CALM3
CALR
CALR3
CALU
CAMK1
CAMK4
CAMKMT
CAMSAP2
CAMTA1
CANT1
CAPN10
CAPN3
CARD11
CARD14
CARD16
CARD9
CARTPT
CASC5
CASK
CASP1
CASP10
CASP12
CASP2
CASP8
CASQ2
CASR
CAST
CAT
CATSPER1
CATSPER2
CATSPER3
CATSPER4

CAV1
CAV3
CBFB
CBL
CBLB
CBR1
CBR3
CBS
CBX2
CBX4
CBY1
CC2D1A
CC2D2A
CCBE1
CCDC103
CCDC107
CCDC12
CCDC127
CCDC14
CCDC140
CCDC22
CCDC28B
CCDC39
CCDC40
CCDC50
CCDC66
CCDC78
CCDC8
CCDC88C
CCKAR
CCKBR
CCL11
CCL2
CCL3
CCL5
CCM2
CCND1
CCR2
CCR3
CCR5
CCR7
CCT5
CD109
CD151
CD177
CD19

CD200
CD207
CD209
CD244
CD247
CD27
CD2AP
CD320
CD36
CD38
CD3D
CD3E
CD3EAP
CD3G
CD4
CD40
CD40LG
CD44
CD46
CD5
CD55
CD59
CD74
CD79A
CD79B
CD80
CD81
CD86
CD8A
CD96
CDA
CDAN1
CDC42
CDC42BPB
CDC6
CDC73
CDCA3
CDCA7L
CDH1
CDH13
CDH15
CDH23
CDH3
CDH5
CDHR1
CDK11A

CDK11B
CDK16
CDK4
CDK5R1
CDK5RAP2
CDK6
CDK7
CDKAL1
CDKL3
CDKL5
CDKN1A
CDKN1B
CDKN1C
CDKN2A
CDKN2B
CDKN2C
CDON
CDT1
CDX2
CDYL
CEACAM16
CEBPA
CEBPE
CECR2
CEL
CELSR1
CELSR2
CEMIP
CENPJ
CENPO
CENPP
CEP135
CEP152
CEP164
CEP290
CEP41
CEP57
CEP63
CEP85L
CERKL
CERS1
CERS6
CES1
CES2
CETP
CFAP53

CFAP57
CFD
CFH
CFHR1
CFHR2
CFHR5
CFI
CFL2
CFP
CFTR
CGB
CGB1
CGB2
CGB5
CGB7
CGB8
CGREF1
CHAT
CHD1L
CHD2
CHD3
CHD6
CHD7
CHD8
CHEK2
CHGA
CHI3L1
CHIA
CHIC2
CHIT1
CHKB
CHL1
CHM
CHMP1A
CHMP2B
CHMP4B
CHN1
CHPF
CHPF2
CHPT1
CHRD
CHRD1
CHRFAM7A
CHRM1
CHRM2
CHRM3

CLDN1
CLDN14
CLDN16
CLDN19
CLEC10A
CLEC3B
CLEC4M
CLEC7A
CLIC2
CLIP2
CLK2
CLMP
CLN3
CLN5
CLN6
CLN8
CLOCK
CLPTM1
CLPTM1L
CLRN1
CLTCL1
CLU
CMPK1
CNBP
CNGA1
CNGA3
CNGB1
CNGB3
CNKSR1
CNKSR2
CNNM2
CNNM3
CNNM4
CNOT4
CNPY3
CNR1
CNR2
CNTF
CNTN1
CNTN4
CNTNAP2
CNTNAP4
COA5
COCH
COG1
COG2

COG3
COG4
COG5
COG6
COG7
COG8
COL10A1
COL11A1
COL11A2
COL17A1
COL18A1
COL1A1
COL1A2
COL21A1
COL2A1
COL3A1
COL4A1
COL4A2
COL4A3
COL4A4
COL4A5
COL4A6
COL5A1
COL5A2
COL6A1
COL6A2
COL6A3
COL7A1
COL8A2
COL9A1
COL9A2
COL9A3
COLEC11
COLQ
COMMD1
COMMD3-BMI1
COMP
COMT
COPA
COQ2
COQ5
COQ6
COQ9
CORIN
CORO1A
COX10

COX14
COX15
COX4I1
COX4I2
COX6B1
COX7B
CP
CPA6
CPB2
CPE
CPLX2
CPN1
CPOX
CPS1
CPT1A
CPT2
CPZ
CR1
CR1L
CR2
CRADD
CRB1
CRBN
CREB1
CREB3L3
CREBBP
CRELD1
CRISP2
CRKL
CRLF1
CRP
CRTAP
CRX
CRYAA
CRYAB
CRYBA1
CRYBA4
CRYBB1
CRYBB2
CRYBB3
CRYGA
CRYGB
CRYGC
CRYGD
CRYGS
CRYM

CSAG1
CSAG3
CSDE1
CSF1
CSF1R
CSF2
CSF2RA
CSF2RB
CSF3R
CSGALNACT1
CSH1
CSH2
CSHL1
CSMD1
CSMD3
CSNK1D
CSNK1G1
CSNK2A2
CSRP3
CST3
CST6
CSTA
CSTB
CSTF2
CSTF2T
CTC1
CTDP1
CTF1
CTGF
CTH
CTHRC1
CTLA4
CTNNA2
CTNNA3
CTNNB1
CTNND2
CTNS
CTRC
CTSA
CTSB
CTSC
CTSD
CTSG
CTSK
CTTNBP2
CUBN

CUL2
CUL3
CUL4B
CUL5
CUL7
CUL9
CX3CR1
CXCL12
CXCL5
CXCL6
CXCR1
CXCR2
CXCR4
CYB561D2
CYB5A
CYB5R3
CYB5R4
CYBA
CYBB
CYBRD1
CYFIP1
CYLD
CYP11A1
CYP11B1
CYP11B2
CYP17A1
CYP19A1
CYP1A1
CYP1A2
CYP1B1
CYP21A1P
CYP21A2
CYP24A1
CYP26B1
CYP26C1
CYP27A1
CYP27B1
CYP2A13
CYP2A6
CYP2A7
CYP2B6
CYP2C18
CYP2C19
CYP2C8
CYP2C9
CYP2D6

CYP2E1
CYP2F1
CYP2J2
CYP2R1
CYP2U1
CYP3A4
CYP3A5
CYP3A7
CYP4A11
CYP4A22
CYP4F11
CYP4F12
CYP4F2
CYP4F22
CYP4F3
CYP4F8
CYP4V2
CYP7A1
CYP7B1
CYR61
CYS1
D2HGDH
DACH1
DAD1
DAG1
DAO
DARS2
DAZ1
DAZ2
DAZ3
DAZ4
DAZL
DBH
DBT
DCAF17
DCBLD1
DCC
DCK
DCLRE1C
DCN
DCTD
DCTN1
DCX
DCXR
DDB2
DDC

DDHD1
DDHD2
DDI2
DDOST
DDR2
DDRKG1
DDX25
DDX3X
DDX3Y
DDX58
DEAF1
DEF6
DEFB126
DES
DFNA5
DFNB31
DFNB59
DGCR14
DGCR2
DGKD
DGKE
DGUOK
DHCR24
DHCR7
DHDDS
DHFR
DHH
DHODH
DHRS4
DHRS4L1
DHRS4L2
DHTKD1
DHX37
DIABLO
DIAPH1
DIAPH2
DIAPH3
DICER1
DIP2A
DIP2B
DIP2C
DIRC2
DIS3L2
DISC1
DISP1
DKC1

DKK3
DLAT
DLC1
DLD
DLEC1
DLG2
DLG3
DLG4
DLGAP3
DLL1
DLL3
DLX3
DLX5
DLX6
DMC1
DMD
DMGDH
DMP1
DMPK
DMRT1
DMXL1
DNAAF1
DNAAF2
DNAAF3
DNAH5
DNAH9
DNAI1
DNAI2
DNAJB2
DNAJB6
DNAJC17
DNAJC19
DNAJC30
DNAJC5
DNAJC6
DNAL1
DNASE1
DNASE1L1
DNASE1L3
DNASE2
DNM1
DNM1L
DNM2
DNMT1
DNMT3A
DNMT3B

DNMT3L
DOC2A
DOCK3
DOCK4
DOCK6
DOCK7
DOCK8
DOCK9
DOK1
DOK2
DOK5
DOK7
DOLK
DOLPP1
DOT1L
DPAGT1
DPCD
DPM1
DPM2
DPM3
DPP6
DPY19L2
DPYD
DPYS
DRD1
DRD2
DRD3
DRD4
DRD5
DSC2
DSC3
DSCAM
DSG1
DSG2
DSG3
DSG4
DSP
DSPP
DST
DTNA
DTNBP1
DUOX1
DUOX2
DUOXA1
DUOXA2
DUS4L

DUX4L1
DUX4L2
DUX4L3
DVL2
DYM
DYNAP
DYNC1H1
DYNC2H1
DYRK1A
DYSF
DYX1C1
E2F1
E2F4
E2F5
EARS2
EBAG9
EBF4
EBP
ECE1
ECE2
ECI1
ECM1
ECM2
ECSIT
EDA
EDA2R
EDAR
EDARADD
EDN1
EDN3
EDNRA
EDNRB
EFCAB5
EFEMP1
EFEMP2
EFHC1
EFHC2
EFNA5
EFNB1
EFR3A
EFTUD2
EGF
EGFR
EGLN1
EGR2
EHBP1

EHD2
EHHADH
EHMT1
EIF2AK3
EIF2B1
EIF2B2
EIF2B3
EIF2B4
EIF2B5
EIF2D
EIF2S3
EIF4E
EIF4G1
EIF4H
ELAC2
ELANE
ELF4
ELK1
ELK3
ELMOD2
ELN
ELOVL4
ELP2
ELP4
EMC4
EMD
EME1
EMG1
EMX1
EMX2
EN2
ENAM
ENG
ENOSF1
ENOX1
ENPP1
ENTPD1
EOMES
EP300
EPAS1
EPB41
EPB41L1
EPB41L2
EPB42
EPC2
EPCAM

EPHA2
EPHA3
EPHA5
EPHA7
EPHB2
EPHB6
EPHX1
EPHX2
EPM2A
EPO
EPOR
EPPK1
EPX
ERAP1
ERAP2
ERBB2
ERBB3
ERBB4
ERCC1
ERCC2
ERCC3
ERCC4
ERCC5
ERCC6
ERCC8
ERI2
ERLIN2
ERMAP
ERRFI1
ESCO2
ESPN
ESR1
ESR2
ESRRB
ETFA
ETFB
ETFDH
ETHE1
ETV4
ETV6
EVC
EVC2
EVI5
EWSR1
EXO1
EXO5

EXOC4
EXOSC3
EXPH5
EXT1
EXT2
EXTL1
EXTL2
EXTL3
EYA1
EYA4
EYS
EZH2
F10
F11
F12
F13A1
F13B
F2
F2RL1
F5
F7
F8
F9
FA2H
FAAH
FAAH2
FABP1
FABP2
FADD
FAH
FAM104A
FAM120A
FAM120AOS
FAM126A
FAM134B
FAM161A
FAM161B
FAM175A
FAM205A
FAM208A
FAM20A
FAM20C
FAM213B
FAM47A
FAM47B
FAM47C

FAM58A
FAM69A
FAM83H
FAM8A1
FAM91A1
FAN1
FANCA
FANCB
FANCC
FANCD2
FANCE
FANCF
FANCG
FANCI
FANCL
FANCM
FARS2
FAS
FASLG
FASN
FASTKD2
FBLN1
FBLN5
FBN1
FBN2
FBP1
FBXL6
FBXO10
FBXO11
FBXO18
FBXO7
FBXW11
FBXW4
FBXW7
FCER1G
FCGR2A
FCGR2B
FCGR2C
FCN1
FCN2
FCN3
FDFT1
FECH
FEM1A
FEM1B
FERMT1

FERMT3
FEZF2
FFAR1
FFAR4
FGA
FGB
FGD1
FGD3
FGD4
FGF10
FGF14
FGF2
FGF23
FGF3
FGF8
FGF9
FGFR1
FGFR2
FGFR3
FGFR4
FGFRL1
FGG
FH
FHIT
FHL1
FHL2
FIG4
FIGLA
FIP1L1
FKBP10
FKBP14
FKBP1A
FKBP4
FKBP5
FKBP6
FKBP8
FKRP
FKTN
FLCN
FLG
FLI1
FLNA
FLNB
FLNC
FLOT1
FLT1

FLT3
FLT4
FLVCR1
FLVCR2
FMN1
FMN2
FMO1
FMO2
FMO3
FMO4
FMO5
FMOD
FMR1
FN1
FN3K
FNTB
FOLH1
FOLR1
FOLR3
FOXA1
FOXA2
FOXA3
FOXC1
FOXC2
FOXD1
FOXD2
FOXD3
FOXE1
FOXE3
FOXF1
FOXF2
FOXG1
FOXH1
FOXI1
FOXI2
FOXI3
FOXJ1
FOXK1
FOXL2
FOXM1
FOXN1
FOXO1
FOXP1
FOXP2
FOXP3
FOXRED1

FPGS
FPGT-TNNI3K
FPR1
FPR2
FPR3
FRAS1
FREM1
FREM2
FREM3
FRK
FRMD5
FRMD7
FRMPD4
FRY
FRZB
FSBP
FSCB
FSCN2
FSHB
FSHR
FST
FSTL1
FTCD
FTHL17
FTO
FTSJ1
FUCA1
FUS
FUT1
FUT2
FUT3
FUT5
FUT6
FUT7
FUT8
FUZ
FXN
FXD2
FXD6-FXD2
FYCO1
FZD3
FZD4
FZD6
FZD9
G6PC
G6PC2

G6PC3
G6PD
GAA
GABARAPL1
GABBR1
GABRA1
GABRA2
GABRA6
GABRB3
GABRD
GABRG1
GABRG2
GABRR1
GABRR2
GAD1
GAD2
GADD45A
GAK
GAL3ST1
GAL3ST2
GAL3ST3
GAL3ST4
GALC
GALE
GALK1
GALNS
GALNT11
GALNT12
GALNT13
GALNT14
GALNT2
GALNT3
GALNT5
GALNT6
GALNT7
GALNT8
GALNT9
GALNTL6
GALT
GAMT
GAN
GAP43
GARS
GAS1
GAS2L2
GATA1

GATA2
GATA3
GATA4
GATA5
GATA6
GATAD1
GATM
GBA
GBE1
GBGT1
GC
GCDH
GCGR
GCH1
GCK
GCKR
GCLC
GCLM
GCM2
GCNT1
GCNT2
GDAP1
GDF1
GDF3
GDF5
GDF6
GDF9
GDI1
GDNF
GFAP
GFER
GFI1
GFI1B
GFM1
GFPT1
GFRA1
GFRA2
GGCX
GGH
GH1
GH2
GHR
GHRH
GHRHR
GHRL
GHSR

GIF
GIGYF2
GIMAP8
GIP
GIPC3
GIPR
GIT1
GJA3
GJA5
GJA8
GJB1
GJB2
GJB3
GJB4
GJB6
GJC2
GJC3
GK
GLA
GLB1
GLCCI1
GLDC
GLE1
GLI2
GLI3
GLIS2
GLIS3
GLMN
GLO1
GLP1R
GLRA1
GLRB
GLRX5
GLUL
GLYCK
GM2A
GMDS
GMPS
GNAI2
GNAI3
GNAQ
GNAS
GNAT1
GNAT2
GNB1L
GNB3

GNE
GNG7
GNMT
GNPAT
GNPTAB
GNPTG
GNRH1
GNRHR
GNS
GOLGA3
GOLGA5
GOLGA6L10
GOLGA6L9
GON4L
GOPC
GORAB
GOSR2
GOT1
GP1BA
GP1BB
GP6
GP9
GPAM
GPATCH8
GPBAR1
GPC3
GPC4
GPC6
GPD1
GPD1L
GPD2
GPHN
GPI
GPIHBP1
GPNMB
GPR1
GPR12
GPR132
GPR139
GPR143
GPR179
GPR37
GPR56
GPR98
GPS1
GPSM2

GPT
GRB10
GREM1
GRHL1
GRHL2
GRHPR
GRIA1
GRIA2
GRIA3
GRIA4
GRID1
GRID2
GRIK1
GRIK2
GRIK4
GRIN1
GRIN2A
GRIN2B
GRIN3A
GRIP1
GRK1
GRK4
GRM1
GRM5
GRM6
GRM7
GRN
GRPR
GRXCR1
GSC
GSE1
GSN
GSPT1
GSPT2
GSR
GSS
GSTA1
GSTA2
GSTA3
GSTA5
GSTM1
GSTM3
GSTO1
GSTP1
GSTT1
GSTZ1

GTF2H5
GTF2I
GTF2IRD1
GTF2IRD2
GTF2IRD2B
GUCA1A
GUCA1B
GUCY2C
GUCY2D
GUCY2F
GUSB
GYG1
GYG2
GYLTL1B
GYPA
GYPB
GYPC
GYPE
GYS1
GYS2
H6PD
HABP2
HACE1
HACL1
HADH
HADHA
HADHB
HAL
HAMP
HAND1
HAND2
HAPLN1
HARS
HARS2
HAVCR1
HAX1
HBB
HBD
HBE1
HBM
HCCS
HCFC1
HCN1
HCN2
HCN3
HCN4

HCRT
HCRTR2
HDAC4
HDAC6
HDAC8
HDAC9
HDC
HDGFRP2
HDLBP
HDX
HEATR2
HEPACAM
HEPH
HERC1
HES7
HESX1
HEXA
HEXB
HEY1
HEY2
HFE
HFE2
HGD
HGF
HGSNAT
HIBCH
HIF1A
HIGD2A
HINT1
HIP1
HIST1H2AE
HIST1H3F
HIST2H3A
HIST2H3C
HIST2H3D
HIST3H3
HK1
HK2
HLA-A
HLA-B
HLA-C
HLA-DPA1
HLA-DPB1
HLA-DQA1
HLA-DQA2
HLA-DQB1

HLA-DQB2
HLA-DRB1
HLA-DRB5
HLA-F
HLA-G
HLCS
HLX
HMBS
HMCN1
HMGA2
HMGCL
HMGCR
HMGCS2
HMHA1
HMMR
HMOX1
HMX1
HMX2
HMX3
HNF1A
HNF1B
HNF4A
HNMT
HNRNPH1
HNRNPH3
HNRNPU
HOGA1
HOXA1
HOXA10
HOXA11
HOXA13
HOXA2
HOXA3
HOXA4
HOXB1
HOXB13
HOXB6
HOXB7
HOXB8
HOXC13
HOXD10
HOXD13
HOXD4
HP
HPCAL4
HPD

HPGD
HPR
HPRT1
HPS1
HPS3
HPS4
HPS5
HPS6
HPSE2
HR
HRAS
HRG
HSD11B1
HSD11B2
HSD17B10
HSD17B3
HSD17B4
HSD3B1
HSD3B2
HSD3B7
HSF1
HSF4
HSP90AA1
HSPA9
HSPB1
HSPB3
HSPB6
HSPB7
HSPB8
HSPG2
HTN1
HTN3
HTR1A
HTR1B
HTR2A
HTR2B
HTR2C
HTR3A
HTR3B
HTR3C
HTR3D
HTR3E
HTR7
HTRA1
HTRA2
HTT

HUWE1
HYAL1
HYDIN
HYLS1
IAPP
ICAM1
ICAM4
ICK
ICOS
ID3
ID4
IDH1
IDH2
IDH3B
IDO1
IDS
IDUA
IER3IP1
IFIH1
IFITM1
IFITM2
IFITM3
IFITM5
IFNAR1
IFNAR2
IFNG
IFNGR1
IFNGR2
IFRD1
IFT122
IFT140
IFT172
IFT43
IFT80
IFT88
IGBP1
IGF1
IGF1R
IGF2
IGF2BP2
IGF2R
IGFALS
IGFBP7
IGHMBP2
IGLL1
IGSF1

IHH
IKBIP
IKBKAP
IKBKB
IKBKG
IKZF1
IKZF3
IL10
IL10RA
IL10RB
IL11
IL11RA
IL12B
IL12RB1
IL12RB2
IL13
IL17F
IL17RA
IL18RAP
IL1B
IL1R1
IL1RAPL1
IL1RN
IL20RB
IL21R
IL23R
IL2RA
IL2RG
IL3
IL31RA
IL36RN
IL4
IL4I1
IL4R
IL6
IL6R
IL6ST
IL7R
IL9R
ILD1R1
ILK
IMMP2L
IMPAD1
IMPDH1
IMPDH2
IMPG2

INF2
ING1
INHA
INMT
INPP5B
INPP5D
INPP5E
INS
INS-IGF2
INSL3
INSL6
INSR
INSRR
INVS
IPCEF1
IQCB1
IQCG
IQGAP2
IQGAP3
IQSEC2
IRAK3
IRAK4
IRF1
IRF4
IRF5
IRF6
IRF8
IRGM
IRS1
IRS2
IRS4
IRX1
IRX2
IRX3
IRX4
IRX5
IRX6
ISCU
ISL1
ISPD
ITCH
ITGA1
ITGA2
ITGA2B
ITGA3
ITGA4

KCNAB2
KCNC2
KCNC3
KCNC4
KCND2
KCND3
KCNE1
KCNE1L
KCNE2
KCNE3
KCNE4
KCNH2
KCNH3
KCNH6
KCNIP1
KCNIP4
KCNJ1
KCNJ10
KCNJ11
KCNJ12
KCNJ13
KCNJ18
KCNJ2
KCNJ4
KCNJ5
KCNJ6
KCNJ8
KCNK18
KCNK3
KCNMA1
KCNMB1
KCNMB4
KCNN2
KCNN3
KCNQ1
KCNQ2
KCNQ3
KCNQ4
KCNQ5
KCNS1
KCNT1
KCNV1
KCNV2
KCTD13
KCTD7
KDM3A

KDM5A
KDM5C
KDM5D
KDM6A
KDM6B
KDR
KEL
KERA
KHDC3L
KHK
KIAA0100
KIAA0196
KIAA0226
KIAA0232
KIAA0319
KIAA1033
KIAA1279
KIAA1462
KIAA2022
KIF11
KIF17
KIF1A
KIF1B
KIF21A
KIF22
KIF27
KIF3C
KIF5A
KIF7
KIR2DL1
KIR2DL3
KIR2DL4
KIR2DS4
KIR3DL1
KIR3DL2
KIR3DL3
KIRREL3
KISS1
KISS1R
KIT
KITLG
KL
KLC1
KLF1
KLF10
KLF11

KLF6
KLF8
KLHDC8B
KLHL10
KLHL13
KLHL3
KLHL7
KLHL9
KLK1
KLK12
KLK4
KLKB1
KMT2D
KNG1
KPNA1
KRAS
KRIT1
KRT1
KRT10
KRT12
KRT13
KRT14
KRT16
KRT17
KRT18
KRT2
KRT3
KRT37
KRT38
KRT4
KRT5
KRT6A
KRT6B
KRT6C
KRT71
KRT72
KRT73
KRT74
KRT75
KRT76
KRT8
KRT81
KRT82
KRT83
KRT85
KRT86

KRT9
KRTAP1-1
KRTAP1-3
KRTAP1-5
KRTCAP3
KYNU
L1CAM
L2HGDH
L3MBTL1
LAMA1
LAMA2
LAMA3
LAMA4
LAMB1
LAMB2
LAMB3
LAMB4
LAMC2
LAMC3
LAMP2
LAMTOR2
LARGE
LAS1L
LBR
LCA5
LCAT
LCE3B
LCE3D
LCE3E
LCE5A
LCK
LCN10
LCT
LDB1
LDB3
LDHA
LDHB
LDLR
LDLRAD2
LDLRAP1
LECT2
LEF1
LEFTY1
LEFTY2
LEMD3
LEP

LEPR
LEPRE1
LEPREL1
LETM1
LFNG
LGALS13
LGALS16
LGALS2
LGI1
LGI4
LGR5
LHB
LHCGR
LHFPL5
LHX1
LHX3
LHX4
LHX5
LHX8
LIAS
LIF
LIFR
LIG1
LIG3
LIG4
LILRA1
LILRA2
LILRA3
LILRA4
LILRA5
LILRA6
LILRB1
LILRB2
LILRB3
LILRB5
LIM2
LIMK1
LINC00470
LINC00523
LINC01252
LINS
LIPA
LIPC
LIPG
LIPH
LIPI

LIPN
LITAF
LLGL1
LMAN1
LMBR1
LMBRD1
LMF1
LMNA
LMNB1
LMNB2
LMO2
LMO4
LMTK3
LMX1B
LOC100144595
LOC100271832
LOC100505549
LOR
LOX
LOXHD1
LOXL1
LOXL3
LPA
LPAR6
LPIN1
LPIN2
LPIN3
LPL
LPP
LRAT
LRBA
LRCH2
LRFN5
LRIT3
LRP1
LRP1B
LRP2
LRP4
LRP5
LRP5L
LRP6
LRP8
LRPPRC
LRRC4
LRRC6
LRRC8A

LRRFIP2
LRRIQ1
LRRK2
LRRTM1
LRSAM1
LRTOMT
LTBP1
LTBP2
LTBP3
LTBP4
LTBR
LTC4S
LTN1
LUM
LY9
LY96
LYN
LYST
LYZ
LZTFL1
LZTS1
MACROD2
MAD1L1
MADD
MAEA
MAF
MAFA
MAFB
MAGEE2
MAGEL2
MAGI2
MAGT1
MAK
MAK16
MALT1
MAML2
MAMLD1
MAN1A2
MAN1B1
MAN2A1
MAN2B1
MANBA
MAOA
MAOB
MAP2
MAP2K1

MAP2K2
MAP2K3
MAP2K4
MAP2K7
MAP3K1
MAP3K14
MAP3K15
MAP3K8
MAP6
MAP7D1
MAPK1
MAPK10
MAPK8IP1
MAPT
MARS2
MARVELD2
MASP1
MASP2
MASTL
MAT1A
MATN3
MATR3
MAX
MBD1
MBD3
MBD4
MBD5
MBL2
MBNL1
MBOAT7
MBTPS2
MC1R
MC2R
MC3R
MC4R
MCC
MCCC1
MCCC2
MCEE
MCF2L2
MCFD2
MCHR1
MCM4
MCM5
MCM6
MCM7

MCM9
MCOLN1
MCPH1
MDGA2
MDK
MDM2
MDN1
ME2
MECOM
MECP2
MED12
MED12L
MED13L
MED17
MED23
MED25
MEF2A
MEF2C
MEFV
MEGF10
MEGF11
MEGF8
MEIS1
MEN1
MEPE
MERTK
MESDC2
MESP1
MESP2
MEST
MET
METTL21A
METTL8
MFAP4
MFF
MFGE8
MFN2
MFRP
MFSD8
MGAT1
MGAT2
MGAT3
MGAT4A
MGAT4B
MGAT4C
MGAT5

MGAT5B
MGLL
MGMT
MGP
MGST2
MGST3
MICA
MICAL1
MICB
MID1
MIF
MINPP1
MIP
MIPOL1
MIR182
MIR183
MIR96
MITF
MKKS
MKL1
MKS1
MLC1
MLH1
MLH3
MLLT10
MLLT11
MLLT3
MLPH
MLX
MLXIPL
MLYCD
MMAA
MMAB
MMACHC
MMADHC
MME
MMEL1
MMP1
MMP10
MMP13
MMP14
MMP2
MMP20
MMP3
MMP8
MMP9

MN1
MNX1
MOCOS
MOCS1
MOCS2
MOG
MOGS
MOK
MPC1
MPDU1
MPDZ
MPG
MPHOSPH8
MPI
MPL
MPLKIP
MPO
MPP6
MPST
MPV17
MPV17L
MPZ
MR1
MRAP
MRC1
MRE11A
MREG
MRPL3
MRPL43
MRPL48
MRPS12
MRPS16
MRPS22
MRRF
MS4A1
MS4A12
MS4A2
MSH2
MSH3
MSH6
MSMB
MSMO1
MSR1
MSRA
MSRB3
MST1

MST1R
MSTN
MSX1
MSX2
MTA1
MTA2
MTAP
MTFMT
MTHFD1
MTHFR
MTHFS
MTM1
MTMR14
MTMR2
MTMR9
MTNR1A
MTNR1B
MTO1
MTPAP
MTR
MTRR
MTSS1
MTTP
MUC15
MUC5B
MUC7
MURC
MUS81
MUSK
MUT
MUTYH
MVK
MXI1
MYB
MYBPC1
MYBPC3
MYC
MYCN
MYD88
MYEF2
MYF5
MYF6
MYH1
MYH11
MYH13
MYH14

MYH2
MYH3
MYH4
MYH6
MYH7
MYH8
MYH9
MYL1
MYL2
MYL3
MYLK
MYLK2
MYO15A
MYO1A
MYO1C
MYO1D
MYO1E
MYO1F
MYO3A
MYO5A
MYO5B
MYO5C
MYO6
MYO7A
MYO7B
MYO9B
MYOC
MYOCD
MYOD1
MYOM1
MYOT
MYOZ2
MYPN
MYT1
MYT1L
NAA10
NAALADL2
NAGA
NAGLU
NAGPA
NAGS
NAIP
NAPRT
NARS2
NAT1
NAT2

NAT8L
NAV2
NBAS
NBEA
NBEAL2
NBN
NBPF1
NBPF14
NCALD
NCAPD2
NCAPH2
NCF2
NCF4
NCKAP1
NCOA1
NCOA4
NCR3
NCS1
NCSTN
NDE1
NDN
NDOR1
NDP
NDRG1
NDST1
NDST2
NDST3
NDST4
NDUFA1
NDUFA10
NDUFA11
NDUFA12
NDUFA13
NDUFA2
NDUFA4
NDUFA6
NDUFA8
NDUFA9
NDUFAF1
NDUFAF3
NDUFAF4
NDUFAF5
NDUFAF6
NDUFAF7
NDUFB1
NDUFB3

NDUFB9
NDUFS1
NDUFS2
NDUFS3
NDUFS4
NDUFS5
NDUFS6
NDUFS7
NDUFS8
NDUFV1
NDUFV2
NDUFV3
NEB
NEBL
NEDD4
NEDD4L
NEFH
NEFL
NEFM
NEGR1
NEIL1
NEIL2
NEK1
NEK8
NEU2
NEUROD1
NEUROG3
NEXN
NF1
NF2
NFATC2
NFATC3
NFATC4
NFE2L1
NFIA
NFIB
NFIC
NFIK
NFKB2
NFKBIA
NFKBIZ
NFU1
NGF
NGLY1
NHEJ1
NHLRC1

NHS
NICN1
NIN
NINJ1
NIP7
NIPA1
NIPAL4
NIPBL
NIPSNAP1
NIPSNAP3A
NIPSNAP3B
NKAIN2
NKX2-1
NKX2-4
NKX2-5
NKX2-6
NKX3-1
NKX3-2
NLGN1
NLGN2
NLGN3
NLGN4X
NLGN4Y
NLRP1
NLRP12
NLRP14
NLRP2
NLRP3
NLRP7
NLRX1
NME1
NME1-NME2
NME5
NME7
NME8
NMNAT1
NMT2
NMU
NNT
NOBOX
NOD1
NOD2
NODAL
NOG
NOL3
NOP10

NOP56
NOS1
NOS1AP
NOS2
NOS3
NOTCH1
NOTCH2
NOTCH3
NOX3
NPAS2
NPAS3
NPAT
NPC1
NPC1L1
NPC2
NPFFR2
NPHP1
NPHP3
NPHP4
NPHS1
NPHS2
NPL
NPM1
NPPA
NPPC
NPR2
NPSR1
NPY
NPY1R
NPY2R
NQO1
NR0B1
NR0B2
NR1D1
NR1H2
NR1H3
NR1H4
NR1I2
NR1I3
NR2C2AP
NR2E1
NR2E3
NR2F1
NR2F2
NR3C1
NR3C2

NR4A1
NR4A2
NR4A3
NR5A1
NRAS
NRCAM
NRG1
NRL
NRP2
NRTN
NRXN1
NRXN2
NRXN3
NSD1
NSDHL
NSMF
NSUN2
NSUN7
NT5C3A
NT5DC1
NT5E
NTF3
NTF4
NTHL1
NTNG1
NTRK1
NTRK2
NTRK3
NUAK1
NUBPL
NUDC
NUDT1
NUMA1
NUP155
NUP214
NUP62
NXF2
NXF2B
NXF3
NXF5
NXNL1
NYX
OAS1
OAS2
OAT
OBSCN

OBSL1
OCA2
OCLN
OCRL
ODC1
OFD1
OGG1
OGT
OLFM2
OLIG2
OLR1
OMG
OPA1
OPA3
OPCML
OPHN1
OPLAH
OPN1SW
OPRL1
OPRM1
OPTC
OPTN
OR10X1
OR13G1
OR1B1
OR51G1
OR52H1
OR52N4
OR5AC2
OR5H1
OR5H14
OR5H15
OR5H6
OR8K3
ORAI1
ORC1
ORC4
ORC6
OSMR
OSTM1
OTC
OTOA
OTOF
OTOGL
OTX2
OVCH2

OXCT1
OXT
P2RX1
P2RX5
P2RX7
P2RY12
P2RY4
PABPC4L
PABPN1
PACRG
PACRGL
PACS1
PADI4
PAFAH1B1
PAFAH1B3
PAH
PAK3
PAK6
PALB2
PALLD
PALM2-AKAP2
PAMR1
PANK2
PAPSS2
PARD3B
PARK2
PARK7
PARL
PARP1
PASK
PAX1
PAX2
PAX3
PAX4
PAX5
PAX6
PAX7
PAX8
PAX9
PBX1
PC
PCBD1
PCBP3
PCCA
PCCB
PCDH11X

PCDH11Y
PCDH15
PCDH18
PCDH19
PCDHA1
PCDHA10
PCDHA11
PCDHA12
PCDHA13
PCDHA2
PCDHA3
PCDHA4
PCDHA5
PCDHA6
PCDHA7
PCDHA8
PCDHA9
PCDHAC1
PCDHAC2
PCDHB10
PCDHB11
PCDHB12
PCDHB13
PCDHB14
PCDHB15
PCDHB16
PCDHB2
PCDHB3
PCDHB4
PCDHB5
PCDHB6
PCDHB7
PCDHB8
PCDHB9
PCK2
PCLO
PCM1
PCMT1
PCNT
PCOLCE
PCP4
PCSK1
PCSK5
PCSK9
PDCD1
PDCD10

PDE11A
PDE4B
PDE4D
PDE6A
PDE6B
PDE6C
PDE6G
PDE6H
PDE8B
PDGFB
PDGFRA
PDGFRB
PDGFRL
PDHA1
PDHB
PDHX
PDK1
PDLIM3
PDLIM4
PDP1
PDPK1
PDSS1
PDSS2
PDX1
PDYN
PDZD7
PECR
PEPD
PER1
PER2
PEX1
PEX10
PEX11B
PEX12
PEX13
PEX14
PEX16
PEX19
PEX2
PEX26
PEX3
PEX5
PEX6
PEX7
PFKM
PFN1

PGAM2
PGAM5
PGBD3
PGK1
PGK2
PGM1
PGR
PGRMC1
PHB
PHEX
PHF11
PHF2
PHF3
PHF6
PHF8
PHGDH
PHIP
PHKA1
PHKA2
PHKB
PHKG2
PHLPP2
PHOX2A
PHOX2B
PHYH
PI4KA
PICALM
PICK1
PIF1
PIGA
PIGL
PIGM
PIGN
PIGO
PIGR
PIGV
PIGZ
PIK3CA
PIK3CB
PIK3CD
PIK3R1
PIK3R2
PIK3R5
PIKFYVE
PIM1
PIN1

PINK1
PIP5K1C
PITPNA
PITPNM3
PITX1
PITX2
PITX3
PKD1
PKD2
PKHD1
PKLR
PKM
PKN3
PKP1
PKP2
PLA2G10
PLA2G2A
PLA2G4A
PLA2G5
PLA2G6
PLA2G7
PLAG1
PLAGL1
PLAU
PLCB1
PLCB4
PLCD1
PLCE1
PLCG2
PLCZ1
PLD2
PLEC
PLEKHG4
PLEKHG5
PLG
PLIN1
PLN
PLOD1
PLOD2
PLOD3
PLP1
PLP2
PLSCR3
PLTP
PML
PMM2

PMP22
PMS1
PMS2
PNKD
PNKP
PNLIP
PNMT
PNP
PNPLA1
PNPLA2
PNPLA6
PNPO
PNPT1
POC1A
POF1B
POFUT2
POGZ
POLB
POLD1
POLE2
POLG
POLG2
POLH
POLL
POLR1C
POLR1D
POLR2F
POLR3A
POLR3B
POLR3H
POLRMT
POMC
POMGNT1
POMGNT2
POMK
POMP
POMT1
POMT2
PON1
PON2
PON3
POP1
POR
PORCN
POSTN
POTEE

POTEF
POU1F1
POU3F4
POU4F2
POU4F3
POU5F1
POU5F1B
POU6F2
PPARA
PPARG
PPARGC1B
PPIB
PPM1B
PPM1D
PPM1E
PPM1G
PPM1K
PPOX
PPP1R12B
PPP1R17
PPP1R1A
PPP1R3A
PPP1R3C
PPP2R1B
PPP2R2A
PPP2R2B
PPP2R2C
PPP3CA
PPP3R1
PPT1
PQBP1
PRAF2
PRB1
PRB2
PRB3
PRB4
PRCC
PRCD
PRCP
PRDM16
PRDM5
PRDM7
PRDM9
PREPL
PRF1
PRG4

PRH1
PRICKLE1
PRICKLE2
PRKACA
PRKAG2
PRKAG3
PRKAR1A
PRKAR1B
PRKCA
PRKCG
PRKCH
PRKCSH
PRKDC
PRKG1
PRKG2
PRLH
PRLR
PRM1
PRM2
PRMT3
PRMT7
PRMT9
PRND
PRNP
PROC
PROCR
PRODH
PROK1
PROK2
PROKR1
PROKR2
PROM1
PROP1
PROS1
PROX1
PROZ
PRPF3
PRPF31
PRPF6
PRPF8
PRPH
PRPH2
PRPS1
PRPS1L1
PRR19
PRRT2

PRRX1
PRSS1
PRSS12
PRSS2
PRSS23
PRSS3
PRSS3P2
PRSS56
PRSS8
PRTG
PRX
PSAP
PSAT1
PSEN1
PSEN2
PSENEEN
PSMA4
PSMA6
PSMB8
PSMC3IP
PSMD1
PSMD7
PSPH
PSPN
PSTPIP1
PSTPIP2
PTAFR
PTCD1
PTCH1
PTCH2
PTCHD1
PTCHD3
PTEN
PTF1A
PTGDR
PTGER2
PTGER4
PTGIR
PTGIS
PTGS1
PTGS2
PTH
PTH1R
PTHLH
PTK7
PTOV1

PTPN1
PTPN11
PTPN12
PTPN14
PTPN22
PTPN6
PTPRC
PTPRJ
PTPRK
PTPRN2
PTPRO
PTPRQ
PTPRT
PTRF
PTS
PUS1
PUS10
PUS3
PVRL1
PVRL4
PXDN
PYCR1
PYGB
PYGL
PYGM
PYY
PZP
QDPR
QKI
RAB11FIP5
RAB18
RAB23
RAB25
RAB27A
RAB27B
RAB29
RAB2A
RAB39B
RAB3GAP1
RAB3GAP2
RAB7A
RABGGTA
RABL6
RAC1
RAC2
RAD21

RAD21L1
RAD50
RAD51
RAD51B
RAD51C
RAD51D
RAD52
RAD54B
RAD54L
RAF1
RAG1
RAG2
RAI1
RALGAPA1
RALGDS
RANBP2
RANGRF
RAP1GDS1
RAPSN
RARA
RARS2
RASA1
RASGEF1B
RASGRP1
RASGRP2
RASSF5
RAX
RAX2
RB1
RB1CC1
RBBP8
RBFOX1
RBFOX2
RBL1
RBL2
RBM10
RBM15
RBM20
RBM28
RBMXL2
RBMXL3
RBP3
RBP4
RBPJ
RC3H1
RCBTB1

RCBTB2
RCHY1
RD3
RDH12
RDH5
RDH8
RDX
RECQL4
REEP1
REL
RELN
REN
REPS2
RET
RETN
RFC2
RFT1
RFX1
RFX2
RFX5
RFX6
RFX8
RFXANK
RFXAP
RGL1
RGMA
RGPD1
RGPD2
RGPD3
RGPD4
RGPD5
RGPD6
RGPD8
RGR
RGS2
RGS5
RGS7
RGS9
RGS9BP
RHAG
RHBDF2
RHCE
RHD
RHO
RHOG
RHOH

RHPN2
RIC1
RIMS1
RIMS2
RIMS3
RIN2
RIOK2
RIPK4
RIT2
RLBP1
RMND1
RNASE4
RNASEH2A
RNASEH2B
RNASEH2C
RNASEL
RNASET2
RNF113A
RNF135
RNF139
RNF168
RNF170
RNF212
RNF213
RNF219
RNF6
ROBO1
ROBO2
ROBO3
ROCK1
ROGDI
ROM1
ROR2
RORA
ROS1
RP1
RP1L1
RP2
RP9
RPA1
RPA4
RPE65
RPGR
RPGRIP1
RPGRIP1L
RPIA

RPL10
RPL11
RPL24
RPL35A
RPL36
RPL36A-HNRNPH2
RPL38
RPL5
RPL6
RPN2
RPS15
RPS17
RPS19
RPS24
RPS26
RPS5
RPS6KA3
RPS6KL1
RPSAP52
RPTOR
RRAS2
RRH
RRM2B
RS1
RSC1A1
RSPH4A
RSPH9
RSPO1
RSPO4
RSRC1
RTN2
RTN4R
RTTN
RUFY2
RUNX1
RUNX2
RUNX3
RUVBL1
RXFP2
RXRA
RYK
RYR1
RYR2
SAA1
SAA2
SAA2-SAA4

SACS
SAG
SAGE1
SALL1
SALL4
SAMD9
SAMHD1
SAR1B
SARDH
SARM1
SARS2
SART3
SAT1
SATB2
SATL1
SBF2
SC5D
SCARB1
SCARB2
SCARF2
SCGB1A1
SCGB3A2
SCLT1
SCN10A
SCN11A
SCN1A
SCN1B
SCN2A
SCN2B
SCN3A
SCN3B
SCN4A
SCN4B
SCN5A
SCN7A
SCN8A
SCN9A
SCNN1A
SCNN1B
SCNN1D
SCNN1G
SCO1
SCO2
SCP2
SCRIB
SCUBE2

SDC3
SDCCAG8
SDHA
SDHAF1
SDHAF2
SDHB
SDHC
SDHD
SEC23A
SEC23B
SEC63
SECISBP2
SELE
SELL
SELP
SELPLG
SEMA3A
SEMA3E
SEMA4A
SEMA4C
SEMA4G
SEMA6D
SEMA7A
SEMG1
SEMG2
SEPN1
SEPSECS
SEPT12
SEPT5
SEPT7
SEPT9
SERAC1
SERPINA1
SERPINA10
SERPINA3
SERPINA6
SERPINA7
SERPINB11
SERPINB5
SERPINB6
SERPINC1
SERPIND1
SERPINE1
SERPINF1
SERPINF2
SERPING1

SERPINH1
SERPINI1
SERPINI2
SESN2
SETBP1
SETD2
SETD8
SETX
SEZ6
SEZ6L
SEZ6L2
SF3B1
SF3B4
SFRP1
SFTPA1
SFTPA2
SFTPB
SFTPC
SFTPD
SGCA
SGCB
SGCD
SGCE
SGCG
SGSH
SH2B1
SH2B3
SH2D1A
SH2D2A
SH3BP2
SH3GL1
SH3PXD2B
SH3TC2
SHANK2
SHANK3
SHARPIN
SHBG
SHFM1
SHH
SHMT1
SHOC2
SHOX
SHOX2
SHROOM3
SHROOM4
SI

SIAE
SIGLEC12
SIGLEC14
SIGLEC7
SIGLEC8
SIGLEC9
SIGMAR1
SIK3
SIL1
SIM1
SIM2
SIPA1
SIPA1L1
SIRT1
SIRT3
SIX1
SIX2
SIX3
SIX5
SIX6
SKI
SLA
SLA2
SLC10A1
SLC10A2
SLC11A1
SLC11A2
SLC12A1
SLC12A3
SLC12A4
SLC12A6
SLC13A2
SLC14A1
SLC15A1
SLC16A1
SLC16A12
SLC16A2
SLC17A3
SLC17A5
SLC17A8
SLC19A2
SLC19A3
SLC1A1
SLC1A3
SLC1A5
SLC20A2

SLC22A1
SLC22A11
SLC22A12
SLC22A18
SLC22A18AS
SLC22A2
SLC22A25
SLC22A3
SLC22A4
SLC22A5
SLC22A6
SLC22A9
SLC24A1
SLC24A2
SLC24A5
SLC25A12
SLC25A13
SLC25A15
SLC25A19
SLC25A20
SLC25A22
SLC25A3
SLC25A35
SLC25A38
SLC25A39
SLC25A4
SLC25A53
SLC26A1
SLC26A10
SLC26A2
SLC26A3
SLC26A4
SLC26A5
SLC26A6
SLC26A9
SLC27A1
SLC27A4
SLC27A5
SLC28A1
SLC28A2
SLC28A3
SLC29A1
SLC29A2
SLC29A3
SLC2A1
SLC2A10

SLC2A2
SLC2A4
SLC2A9
SLC30A10
SLC30A2
SLC30A5
SLC30A8
SLC31A1
SLC33A1
SLC34A1
SLC34A2
SLC34A3
SLC35A1
SLC35C1
SLC35D1
SLC35F3
SLC35G2
SLC36A1
SLC36A2
SLC37A4
SLC39A12
SLC39A13
SLC39A4
SLC3A1
SLC40A1
SLC41A1
SLC44A2
SLC45A2
SLC46A1
SLC47A1
SLC47A2
SLC4A1
SLC4A10
SLC4A11
SLC4A3
SLC4A4
SLC4A7
SLC52A1
SLC52A2
SLC52A3
SLC5A1
SLC5A11
SLC5A2
SLC5A4
SLC5A5
SLC5A7

SLC6A1
SLC6A11
SLC6A12
SLC6A13
SLC6A14
SLC6A18
SLC6A19
SLC6A2
SLC6A20
SLC6A3
SLC6A4
SLC6A5
SLC6A6
SLC6A8
SLC6A9
SLC7A10
SLC7A11
SLC7A2
SLC7A5
SLC7A7
SLC7A9
SLC9A3
SLC9A3R1
SLC9A6
SLC9A9
SLC9B1
SLCO1A2
SLCO1B1
SLCO1B3
SLCO1B7
SLCO1C1
SLCO2A1
SLCO2B1
SLCO5A1
SLFN5
SLIT1
SLIT3
SLITRK1
SLITRK5
SLITRK6
SLURP1
SLX4
SMAD1
SMAD2
SMAD3
SMAD4

SOBP
SOCS3
SOD1
SOD2
SOD3
SOGA3
SOHLH1
SORCS1
SORL1
SORT1
SOS1
SOST
SOX1
SOX10
SOX17
SOX18
SOX2
SOX3
SOX5
SOX6
SOX7
SOX8
SOX9
SP110
SP5
SP7
SP8
SP9
SPAG17
SPAG8
SPANXN1
SPANXN2
SPANXN5
SPAST
SPATA13
SPATA16
SPATA21
SPATA31C1
SPATA7
SPECC1
SPECC1L
SPEF2
SPG11
SPG20
SPG21
SPG7

SPI1
SPINK1
SPINK5
SPINT2
SPP1
SPR
SPRED1
SPRED2
SPRN
SPRY2
SPRY4
SPSB1
SPTA1
SPTAN1
SPTB
SPTBN1
SPTBN2
SPTBN5
SPTLC1
SPTLC2
SQSTM1
SRC
SRCAP
SRD5A2
SRD5A3
SREBF1
SREBF2
SRGAP3
SRI
SRP72
SRPX
SRPX2
SRR
SRY
SSH1
SSPN
SSTR5
SSX1
SSX2
SSX2B
SSX3
SSX5
SSX7
ST14
ST20-MTHFS
ST3GAL1

ST3GAL2
ST3GAL3
ST3GAL4
ST3GAL5
ST3GAL6
ST5
ST6GAL1
ST6GAL2
ST6GALNAC1
ST6GALNAC2
ST6GALNAC3
ST6GALNAC4
ST6GALNAC5
ST6GALNAC6
ST8SIA1
ST8SIA2
ST8SIA3
ST8SIA4
ST8SIA5
ST8SIA6
STAR
STARD9
STAT1
STAT3
STAT4
STAT5A
STAT5B
STEAP3
STIL
STIM1
STK11
STK11IP
STK19
STK35
STK36
STK39
STK4
STON1-GTF2A1L
STOX1
STRA6
STRADA
STRC
STS
STT3A
STT3B
STX11

STX16
STXBP1
STXBP2
SUCLA2
SUCLG1
SUCO
SUFU
SUGCT
SULF1
SULT1A1
SULT1A2
SULT1C2
SULT2A1
SULT2B1
SULT4A1
SUMF1
SUMO1
SUMO4
SUOX
SUPT16H
SUPT3H
SURF1
SUV420H1
SUZ12
SV2B
SYCE2
SYCP3
SYK
SYN1
SYN2
SYN3
SYNE1
SYNE2
SYNGR1
SYNM
SYNPO
SYNPR
SYP
SYT14
SYT17
SYT2
SYTL3
SYTL5
T
TAAR1
TAAR9

TAB2
TAC3
TACO1
TACR3
TACSTD2
TAF1
TAF15
TAF1C
TAF1L
TAF2
TAL1
TAL2
TALDO1
TAP2
TARDBP
TAS1R1
TAS1R3
TAS2R16
TAS2R19
TAS2R20
TAS2R3
TAS2R30
TAS2R31
TAS2R38
TAS2R43
TAS2R46
TAS2R50
TAT
TAZ
TBC1D23
TBC1D24
TBC1D4
TBC1D9
TBCD
TBCE
TBCK
TBK1
TBL1X
TBL1XR1
TBL1Y
TBP
TBX1
TBX10
TBX15
TBX19
TBX2

TBX20
TBX21
TBX22
TBX3
TBX4
TBX5
TBX6
TBXA2R
TBXAS1
TCAP
TCF21
TCF3
TCF4
TCF7L1
TCF7L2
TCIRG1
TCN1
TCN2
TCOF1
TCP1
TCTE1
TCTE3
TCTN1
TCTN2
TCTN3
TDO2
TDP1
TDRD7
TEAD1
TEC
TECPR2
TECR
TECTA
TEK
TEKT2
TENC1
TERC
TERT
TET1
TET2
TEX14
TF
TFAM
TFAP2A
TFAP2B
TFB1M

TFE3
TFF1
TFG
TFPI
TFR2
TFRC
TG
TGFB1
TGFB2
TGFB3
TGFB1
TGFB1
TGFB2
TGFB3
TGIF1
TGM1
TGM2
TGM5
TGM6
TH
THAP1
THBD
THBS1
THBS2
THOC2
THPO
THRA
THRB
THSD7A
TICAM1
TIMM44
TIMM8A
TIMP3
TINAG
TINF2
TIRAP
TJP2
TK2
TLL1
TLR1
TLR2
TLR3
TLR4
TLR5
TLR6
TLR9

TLX1
TLX1NB
TLX2
TLX3
TM4SF19
TMC1
TMC6
TMC8
TMCO1
TMEM114
TMEM126A
TMEM127
TMEM135
TMEM138
TMEM165
TMEM173
TMEM187
TMEM216
TMEM231
TMEM237
TMEM249
TMEM43
TMEM5
TMEM50B
TMEM67
TMEM70
TMEM8A
TMEM99
TMIE
TMLHE
TMPO
TMPRSS15
TMPRSS3
TMPRSS5
TMPRSS6
TMTC3
TNFRSF10A
TNFRSF10B
TNFRSF11A
TNFRSF11B
TNFRSF13B
TNFRSF13C
TNFRSF1A
TNFRSF1B
TNFRSF9
TNFSF11

TNFSF14
TNFSF4
TNKS
TNNC1
TNNI2
TNNI3
TNNI3K
TNNT1
TNNT2
TNNT3
TNP1
TNR
TNRC6B
TNS3
TNXB
TOE1
TOMM40L
TOP1
TOP2A
TOPORS
TOR1A
TP53
TP53BP1
TP53RK
TP63
TP73
TPCN2
TPH1
TPH2
TPK1
TPM1
TPM2
TPM3
TPMT
TPO
TPP1
TPR
TPRN
TPTE
TPTE2
TRADD
TRAF3
TRAF3IP2
TRAF6
TRAK1
TRAPPC9

TRDN
TREH
TREM2
TRERF1
TRESX1
TRHR
TRIB2
TRIB3
TRIM21
TRIM24
TRIM32
TRIM33
TRIM37
TRIO
TRIOBP
TRIP11
TRIP12
TRIP13
TRMU
TROAP
TROVE2
TRPA1
TRPC3
TRPC4
TRPC6
TRPM1
TRPM2
TRPM3
TRPM4
TRPM6
TRPM7
TRPS1
TRPV1
TRPV3
TRPV4
TRPV5
TRRAP
TSC1
TSC2
TSEN2
TSEN34
TSEN54
TSFM
TSG101
TSHB
TSHR

TSHZ1
TSLP
TSPAN12
TSPAN17
TSPAN7
TSPEAR
TSPO
TSPYL1
TSR1
TSSC4
TSSK4
TST
TTBK2
TTC14
TTC19
TTC21B
TTC37
TTC7A
TTC8
TTI2
TTLL1
TTN
TPPA
TTR
TUB
TUBA1A
TUBA3C
TUBA3D
TUBA3E
TUBA4A
TUBA8
TUBB
TUBB1
TUBB2A
TUBB2B
TUBB3
TUBB4A
TUBB4B
TUBB6
TUBB8
TUBGCP5
TUBGCP6
TUFM
TULP1
TUSC3
TWIST1

TWIST2
TXNIP
TXNRD2
TYK2
TYMP
TYMS
TYR
TYRO3
TYROBP
TYRP1
UACA
UBA1
UBA5
UBAC2
UBE2A
UBE2B
UBE2N
UBE2NL
UBE3A
UBE3C
UBIAD1
UBQLN2
UBR1
UBR3
UBR7
UCHL1
UCN
UCP1
UCP2
UCP3
UFD1L
UGCG
UGGT1
UGGT2
UGT1A1
UGT1A10
UGT1A3
UGT1A4
UGT1A5
UGT1A6
UGT1A7
UGT1A8
UGT1A9
UGT2A1
UGT2A2
UGT2A3

UGT2B10
UGT2B11
UGT2B15
UGT2B17
UGT2B28
UGT2B4
UGT2B7
UGT8
UIMC1
ULK4
UMOD
UMPS
UNC119
UNC13D
UNC5C
UNC5CL
UNC80
UNC93A
UNC93B1
UNG
UNKL
UPB1
UPF3B
UPK3A
UQCRB
UQCRFS1
UQCRQ
URB1
UROC1
UROD
UROS
USB1
USF1
USH1C
USH1G
USH2A
USP1
USP15
USP26
USP3
USP46
USP9X
USP9Y
UST
UTF1
UTP14C

UTRN
UTY
UVSSA
VAMP7
VANGL1
VANGL2
VAPB
VAX1
VCAM1
VCAN
VCL
VCP
VCX
VCX2
VCX3A
VCX3B
VCY
VCY1B
VDR
VEGFA
VEGFC
VHL
VIM
VIPAS39
VKORC1
VLDLR
VMA21
VNN1
VPS13A
VPS13B
VPS33B
VPS35
VPS37A
VPS54
VRK1
VRK2
VSIG4
VSX1
VSX2
VWF
WAS
WASF3
WBSCR17
WDFY3
WDPCP
WDR11

WDR13
WDR19
WDR35
WDR36
WDR4
WDR45
WDR45B
WDR62
WDR72
WDR81
WFS1
WHSC1
WIPF1
WISP3
WNK1
WNK4
WNT10A
WNT10B
WNT3
WNT4
WNT5A
WNT7A
WRAP53
WRN
WT1
WWC1
WWOX
WWTR1
XBP1
XDH
XG
XIAP
XK
XKR6
XPA
XPC
XPNPEP2
XPNPEP3
XRCC1
XRCC2
XRCC3
XRCC4
XRCC5
XRCC6
XYLT1
XYLT2

YARS
YARS2
YBX2
YWHAE
YY1
YY1AP1
ZAN
ZAP70
ZBTB16
ZBTB18
ZBTB24
ZBTB25
ZBTB40
ZBTB41
ZC3H14
ZCCHC12
ZCCHC13
ZCCHC18
ZCCHC8
ZDHC15
ZDHC17
ZDHC2
ZDHC9
ZEB1
ZEB2
ZFAT
ZFH3
ZFP36
ZFP36L1
ZFP36L2
ZFP69
ZFP90
ZFPM2
ZFYVE26
ZFYVE27
ZHX3
ZIC1
ZIC2
ZIC3
ZIC4
ZIC5
ZKSCAN5
ZMPSTE24
ZMYM3
ZNF175
ZNF213

ZNF276
ZNF335
ZNF365
ZNF41
ZNF419
ZNF420
ZNF423
ZNF433
ZNF469
ZNF480
ZNF500
ZNF513
ZNF526
ZNF592
ZNF644
ZNF674
ZNF711
ZNF750
ZNF75A
ZNF75D
ZNF773
ZNF80
ZNF81
ZPBP
ZPBP2