

**A list of 4,736 genes related to Type2 diabetes**

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D7CNTP

ALPQTL2

ANON1

BCC1

BMND3

MLM

DNS

CMM

CCV

CTRCT8

DYX8

HLM2

ERPL1

IBD7

MS4

MYP14

PSORS7

PTPRZ2

MTS1

TFS1

SAI1

MRS

SAMD11

NIR

NOC2L

HES4

IMD38

IFI15

G1P2  
ISG15  
CMS8  
AGRN  
GITR  
AITR  
TNFRSF18  
TNFRSF4  
TXGP1L  
OX40  
ACT35  
IMD16  
CAB45  
SDF4  
B3GALT6  
ALGAZ  
EDSSPD2  
SEMDJL1  
C1QTNF12  
C1QDC2  
FAM132A  
SCNN1D  
RC68  
INTS11  
CPSF3L  
CPTP  
GLTPD1  
T1R3  
TAS1R3

DRS2  
DVL1  
ASP3  
MXRA8  
CCNL2  
MRPL20  
WARP  
VWA1  
KIAA1273  
TOB3  
ATAD3B  
PHRINL  
ATAD3A  
HAYOS  
SCA21  
C1orf70  
TMEM240  
SSU72  
MIB2  
MMP22  
MMP23B  
CDK11  
P58  
CDC2L1  
CDK11B  
MMP23A  
MMP21  
MIFR  
CDC2L2

CDK11A  
NADK  
GNB1  
MRD42  
GABRD  
GEFSP5  
EIG10  
EJM7  
PKC2  
PRKCZ  
C1orf86  
FAAP20  
SGS  
SKI  
KONDS  
PEX10  
NALD  
PBD6A  
PBD6B  
PLCH2  
PLCL4  
PANK4  
HES5  
TR2  
HVEM  
TNFRSF14  
SEP  
NL1  
NEP2

NEPII  
MMEL1  
ARPM2  
ARPT2  
ACTRT2  
CMD1LL  
LVNC8  
MEL1  
PRDM16  
EGFL3  
MEGF6  
FAM79A  
TPRG1L  
TP73  
VEL  
SMIM1  
JBTS25  
KIAA0562  
GLYBP  
CEP104  
DFNB96  
SLSN4  
NPHP4  
KCNA2B  
KCNA2B  
CHD5  
EAP  
RPL22  
C1orf188

RNF207  
ICMT  
GPR153  
BACH  
LACH  
ACOT7  
HES2  
ESPN  
USH1M  
TNFRSF25  
TNFRSF12  
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LARD  
PLEKHG5  
CMTRIC  
DSMA4  
KIAA0720  
T1R1  
TAS1R1  
HKR3  
ZBTB48  
CANPMR  
KIAA0833  
CAMTA1  
GLC3B  
SCZD12  
VAMP3  
FASPS3  
PER3

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ENO1  
PPH  
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GLUT5  
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GDH  
G6PDH  
CORTRD1  
SPSB  
SSB1  
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PIK3CD  
APDS

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KIAA0684  
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APITD1  
CORT  
DFFA  
DFF1  
PEX14  
PBD13A  
CASZ1  
SRG  
TARDBP  
TDP43  
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MASP2  
SRM  
SPS1  
EXOSC10  
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MTOR  
FRAP1  
SKS  
ANGPTL7  
CDT6  
UBIAD1  
TERE1  
SCCD  
DISP3  
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NFB42  
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FBX44  
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FBG3  
FBXO6  
FBX6  
FBG2  
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MAD2B

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NPPA  
PND  
ANP  
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LLH  
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HMSN6A  
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IIP45  
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CD30  
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TNFRSF1B  
TNFR2  
TNFBR  
VPS13D  
SCAR4  
GBD2  
DHRS3

RETSDR1  
LRRRC38  
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GP36  
PRDM2  
RIZ  
KAZN  
EFHD2  
SWS1  
CTRC  
CLCR  
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ELA2A  
AOMS4  
CELA2B  
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CASP9  
APAF3  
AGMAT  
AUH  
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RS1  
PLEKHM2  
SKIP  
KIAA0842  
FBLP1  
MIGFILIN

ATRST2  
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MINT  
SHARP  
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EA8  
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CLCNKB  
EPHA2  
ECK  
CTPP1  
CTPA  
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FBX42  
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NBPF1  
KIAA1693  
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RNU1  
TRNAE1  
TRNE

TRE  
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CROCC  
ROOTLETIN  
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MFAP2  
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MAGP1  
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PARK9  
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SDHIP  
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PADI3  
UHS1  
PADI4  
PADI5  
PAD  
PADI6  
PREMBL2  
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GRINCHGEF  
KIAA1626

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ZUBR1  
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KIAA0090  
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AFAR2  
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AKR7  
AFAR  
PQLC2  
CAPZB  
CAPPB  
MICOS10  
MINOS1  
MIO10  
MIC10

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DAN  
HTR6  
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PLA2B  
PLA2L  
MOM1  
PLA2G5  
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BFIS4  
BFIC4  
PLA2G2D  
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PLA2G2F  
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FN1  
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IRS1  
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PTGS2  
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AOC3  
IL2RA  
PAX6  
CYBB  
NR1I3  
MAP3K5  
MT2A  
NCF1  
CPT1A



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GAD1  
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GCKR

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AQP4  
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LMNA  
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ASIP  
PAX4  
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ABCC8  
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WFS1  
FTO  
CASR  
APOA5  
FOXP3

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PNPLA2  
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GATA3  
GJA1  
ARG1  
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WRN  
CNBP  
ELN  
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ITPR3

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CPS1  
FOXC2  
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PRSS1  
SLC22A2  
BRCA2  
TLR1  
C2  
SLC30A3

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FADS2  
ADA  
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LIPC-AS1  
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PARP1  
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AGER  
DPP4  
ATN1  
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ABCA1  
EDN1  
CELSR2  
AHSG  
UBR1  
PDILT  
EPO  
AKT1  
ALB

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FGF2  
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PCSK9  
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GAD2  
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COPD  
ZBTB20  
TINF2  
GATM  
FGF21  
GCG  
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GH1  
GIP  
GJB3  
GLO1

GLUL  
ABO  
OR10A4  
CAVIN1  
NSMCE2  
GPT  
GPX1  
NDUFAF4  
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GSK3B  
GSTM1  
GRHL1  
HGF  
HIF1A  
HLA-A  
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HMGB1  
HMOX1  
HP  
HPN  
APOA1  
IAPP  
APOB  
ICAM1  
IDE  
GOLGA6A  
APOC3  
IFNG  
IGF1



IGFBP3  
APRT  
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IL1B  
IL1RN  
IL4  
CXCL8  
IL10  
IL17A  
IL18  
ITPK1  
KCNQ1  
LCN2  
LDLR  
LEP  
LGALS3  
LHX1  
FADS1  
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ARSA  
MBL2  
MC4R  
MFAP1  
MMP2  
MMP9  
MPO  
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ND3  
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TRNK  
TRNQ  
TRNS1  
TRNS2  
TRNV  
TRNW  
NDP  
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NFATC1  
NFE2L2  
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NPY  
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OPA1  
TNFRSF11B  
RRM2B  
NOX4  
NEUROG3  
PARN  
PDE11A  
TPRKB  
ADIPOR1  
NDUFAF1  
TIMMDC1  
POLK  
ENPP1  
RTEL1  
SERPINF1  
PEX1  
PEX6  
PIK3CA  
PIK3CB  
PIK3CG  
PLCG1  
PLG  
PMM2  
POLD1  
POLG

SEMA5B  
CCHCR1  
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BCAS3  
CDKAL1  
SARS2  
AVP  
WRAP53  
RCBTB1  
CHDH  
NOP10  
SLC30A10  
MAML3  
FOXRED1  
ZCCHC8  
CARMIL1  
PRKAA1  
PRKAA2  
PRKAB1  
NHP2  
PRKACA  
TMEM126B  
ACSS2  
ANGPTL8  
MAPK1  
MAPK8  
PRSS2  
TWNK  
RETN

PTH  
SHROOM3  
SUGP1  
BBS1  
BBS2  
MOK  
BCHE  
ACE2  
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REN  
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CXCL12  
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SOD2  
SPP1

TERC  
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TTPA  
C9  
UCP1  
UCP2  
UCP3  
VEGFA  
BEST1  
TRPV1  
XRCC4  
CAD  
NDUFAF5  
CCDC28B  
RNASEH2B  
USB1  
PALB2  
ARMC5  
EHMT1  
CTC1  
NUBPL  
PNPLA3  
THSD7B  
HMGA2  
OR2B2  
OR12D3  
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CASP3  
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LMNB2  
PDE8B  
IRS2  
ALDH1A2  
ZPR1  
MGAM  
SELENBP1  
BAZ1B  
AIP  
USP8  
UBXN11  
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UBE2Q2  
KL  
FOXP2  
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CD34  
CD36  
GDF15  
RAPGEF5  
ADAMTS13  
CYP2E1  
CYP3A4  
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IFNA13  
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TAC1  
VWF  
PDHX  
FGF23  
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AHSA1  
IGF2BP2  
UTS2  
ADM  
CRK  
AFP  
DMPK  
FABP2  
SIRT3  
DIANPH  
RNF19A  
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HPGDS  
ANGPT1  
GSR  
HHEX  
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KLF11  
INSM2  
SOCS3  
GRAP2  
ADH1B  
DDIT3  
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PTPRN  
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SELE  
SGK1  
TLR2  
TRPM2  
VCAM1  
PLA2G7  
ADIPOR2  
APOL1  
TNFSF10  
CCK  
APLN  
CD59  
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AKR1A1  
CEL  
OGA  
NQO1  
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FBL  
F2

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ANPEP  
HBA1  
AOC2  
FOXA2  
HSPA5  
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MAPT  
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NOS2  
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PLXNA2  
PRKCB  
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CCR2

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RUNX2  
SOCS1  
HDAC3  
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NAMPT  
PERCC1  
SORBS1  
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PSIP1  
SORCS1  
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CNR1  
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CPOX  
CTSD  
CUX1  
CYBA  
ADRB2  
DPT  
AGRP  
ERBB2  
JAZF1  
MMRN1  
CLEC16A  
ANGPTL2

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HAVCR1  
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INPPL1  
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JAK2  
GSTK1  
MET  
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GRK2  
CYP2J2  
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ACSL1

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GOT2  
SETD2  
GSTP1  
ANXA1  
HCLS1  
HCRT  
HK2  
HLA-C  
MNX1  
HMGA1  
AGFG1  
HSPB2  
IARS1  
HCAR2  
CCN1  
IL2RB  
KLK1



SUMO4  
LGALS1  
LOX  
LRP2  
SMAD2  
SMAD3  
MGP  
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MMP3  
MMP14  
NOTCH1  
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REG3A  
PRKN  
ANGPTL4  
ADA2  
ACP1  
PON2  
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MAPK3  
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SELP  
FN3K  
HHIP  
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SLC9A3

SNCA  
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TRPC6  
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NOX5  
PPP1R3B  
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FZD4  
CASP8  
RPAIN  
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DEGS1  
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PEA15  
RIPK1

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ABCG1  
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DGCR2  
FOXO6  
KIR2DS2  
SH2B3  
PPIF  
PGR-AS1  
CDK4  
CDKN1C  
TUBB4B  
FST  
ADCY5  
CHI3L1  
PRRT2  
CHRM3  
TNDM1  
C1QTNF5  
CMKLR1  
CNTF  
COL9A3  
COMT

COPA  
ADORA1  
CPE  
TRPM6  
CSN2  
NRG4  
CTSB  
ADRA2B  
CTSS  
CX3CR1  
CXADR  
CYP2B6  
CYP2D6  
CYP7A1  
CBLL2  
SLC35G1  
DCN  
DLD  
DYRK1A  
EDNRB  
ELANE  
ELK3  
ENO2  
EPHB1  
EPHB2  
ETV3  
FLT1  
CELA3B  
CABIN1

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DDAH1  
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DESI1  
SGSM3  
GNAO1  
PSAT1  
CFH  
ACACA  
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HLA-DQB2  
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HSPA1B  
IDDM7  
IFNAR1  
IL6R  
IL15  
INSRR  
ITGAM  
ITGB2  
KCNMA1  
KIR2DL2  
LNPEP  
ARR3  
MEN1  
MIP  
MMP8

MT1A  
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PDR  
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PPIA  
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PPP1R3C  
SLC47A1

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VIM-AS1  
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TNIP1

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SEMA4D

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PDGFRA



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POU5F1  
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SPPL3  
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OAS1  
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POMGNT1  
BCL9

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HTN1  
IKBKB

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