

Supplementary 2. The selected MS and urological disorders with associated genes

CLEC16A
HLA-DRB1
IL2RA
IL7R
TNFRSF1A
CD40
CD58
TYK2
KIF1B
HLA-DRA
CBLB
STAT4
TNFAIP3
TNFSF14
CD6
NLRP3
HLA-DPB1
HLA-DQB1
ICAM1
IRF8
IFNB1
IFNG
APOE
IL1B
IL1RN
IL7
IL10
IL17A
P2RX7
VDR
CNR1
GC
CASP1
SLC11A1
CLDN11
POMC
PDCD1
NECTIN2
SELE
VCAM1
IL12A
RBPJ

MCAM
KCNJ10
BCHE
TNF
PRF1
CYP27B1
LRCH1
HLA-A
HLA-B
HLA-DQA1
STAT3
CD226
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GPC5
NR1H3
MAPK1
IFIH1
EVI5 ATG5
ERG
KIF21B
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PTPN22
MGAT5
FCRL3
TAGAP
CCR3
ITGAM
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RGS1
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CD86
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SP140
GALC
GFI1
HSPA1L
TMEM39A
PTPN2
RPS6KB1
MMEL1

ANKRD55
TSFM
MPHOSPH9
MALT1
ADAD1
ZBTB46
CTSH
ZNF433
ERBB3
ICOSLG
ICOS
HLA-DMB
HLA-DQA2
HLA-DRB4
IRGM
IFNGR2
IGHA1
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LRP2
METTL1
MST1
TET2
AHI1
GSDMB
BTNL2
SLC2A4RG
ZMIZ1
PVT1
BACH2
CFB
ATXN2
TRAF3
INS-IGF2
VAV2
VMP1
IQGAP1
TNFSF15
CDH3
MIR181A1HG
CD24
NONOP2

USP8P1
TTC34
WTAPP1
HNRNPA1P68
LINC02580
MIR3681HG
PPT2-EGFL8
SAE1
PCAT1
IFNG-AS1
RASGRP1
PKIA-AS1
CHROMR
LINC01934
TH2LCRR
IL12A-AS1
ZNF433-AS1
LINC01147
TSBP1-AS1
DLEU1
CASC19
TNIP1
CDSN
CD52
IFI30
NCOA2
LINC02471
LINC02357
LINC02571
BATF
RGS14
EHMT2-AS1
TSBP1
TNFSF13B
LRRK2-DT
LINC01967
HCP5
EHMT2
ERVK-32
FGFR1OP
CDC37
CHI3L1

FAM107A
ATXN2L
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C1QTNF6
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RMI2
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LRRK2
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CRYAB
CSF2
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HORMAD2
PUS10
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KIAA2026
CYP21A2
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GLIS3
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S1PR1
SPRED2
ETS1
JAZF1
PXT1
SBNO2
MLANA
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ZBTB38
SYT14
PRKD2
PHGDH

AK5
GEM
GFAP
FOXP1
DKKL1
SNHG28
SUMF1
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HLA-DRB6
HLA-DRB9
HLA-F
HLA-G
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IFNA13
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LINC02656
C1orf141
IL17REL
LINC01185

LINC00243
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MIR155
MANBA
MAZ
MBP
MEFV
CIITA
MMP2
MMP9
MOG
MPO
MS IRF1-
AS1
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GGNBP1
MTHFR
NEFL
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TIMMDC1
IL23A
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KRT20
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PPARG
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BANK1
ATG16L1
SIRPG
CSGALNACT2
ITLN1
INAVA
MYNN
SLC44A2

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BRD2
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BDNF
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SH3BP2
MROH3P
SKIV2L
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SPP1
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STAT2
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SPATA2
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ITGA4
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ESR2
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IGF1
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OPN1MW3
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LOC102724971

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ALCAM
PADI4
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GSTM1
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MIR21
MTR
NFKB1
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CCR4
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CUX1
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NQO1
EDN1
FCGRT
FN1

PRDX5
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MGAT1
MICB
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MMP1
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PIK3CB
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KLK6
RGMA
PDXP
PTHLH
PTPN6
RPL5
CCL20

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SELPLG
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CASP8
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ERVK-20
ERVK-22
ERVK-11
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FCGR3B
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ACAD8
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GZMB
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ARMH1
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MALAT1
KLRB1

LAIR1
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FBXW4
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TAP1
SERPING1

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SPHK1
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EIF2B5
EIF2S2
CD1D
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ENTPD1
SART3
LEPR
TLR7
ADA
OCLN
MICA
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MIR548AC
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HTATIP2
CXCR6
SIRT1-AS
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CCL27
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IMMT
PARK7
CARD16
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MRGPRX4

SERPINA3
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ACKR2
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GPR151
CR2
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CTNNB1
ADRA2B
CYBB
ADRB2
CYP2D6
CYP27A1
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OXER1
DDT
IDO2
DHCR24
DLD
JAG1
ATN1
ABCA1
EDNRA
RLS1
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AHSG
A2M
EPHA4
AKT1
ERV3-1
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KLRK1
P2RX2
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FMR1
FOS

SEC14L2
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GATA3
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ARG2
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LMNB1
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VN1R17P
GPR166P
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NFKBIA
OAS3
MIR384
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SERPINB2
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MZB1
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RELN
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PSMD4
ANO2
MIR20B
PTH
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CXCL16
RARA
LGR6
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BCL2L1
GAS5
RORA
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CDKN2D
IKZF1
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WFDC2
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CDX2
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NXF1
CRTAP

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CETN1
YME1L1
MASP2
CCR9
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CYP46A1
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CEACAM7
MMP24
RALBP1
PRDX3
RAB40B
RAB32
METAP2
LILRB4
LILRA1
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ADRM1
ADAMTS13
CHGA
CHGB
CHIT1
POLG2
PRRT2
HRH3
NRM
USP18
ACOT7
C1QTNF3
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H3P24
H3P29

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CLIC1
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NLRP5
HSPB6
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CNTN1
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COL2A1
DUSP15
COL11A2
COL17A1
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CLDN3
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ADAMTS14
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CRYGD
CRYZ
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CSN3
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APCDD1
CSTF2
PDIK1L
CTSE
PLB1
GPBAR1

RMDN2
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CYP2B6
CYP2C19
CYP2C9
CYP3A4
CYP7A1
CYP17A1
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IFNLR1
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DNASE1
DNTT
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DSG2
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EDNRB
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EGR1
EIF4EBP2
AIF1
ELAVL2
CRTC2
CRYGEP

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EPAS1
EPHB2
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ERN1
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FANCD2
FANCG
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FGFR1
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SORCS3
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FOXC2
FOXO3
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FLNB
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CUX2
SYNE1
ADNP
SIRT3
FNTB

FOLR2
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PRPF6
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SH3YL1
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GLO1
TOR2A
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GPI
IFNL3
GPR3
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IGHV3-52
IGHV3-23
ANGPT2
TRBV20-1
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GPR37
TRBV5-2
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GRIA3
GRIA4
TRIB2
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UHRF1
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GRM4
GRM5
GRM7
GRM8
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HDAC1
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SOX8
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HOXB4
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BIRC3
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TGM6
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IFNA2
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ACTBL2
IFNGR1
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HCP5B
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IL6R
IL10RB
IL12RB2
IL16
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INSRR
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IRF6
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ITGA1
ITGAL
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JAK2
JAK3
CA13
KCNK3
KDR
KIR2DL1
KIR2DL3
KIR2DL4
KIR3DS1
KLKB1
KLRD1
KNG1
KLC1
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PSMG4
LALBA
LAMA4

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LDLR
LGALS1
LGALS8
LGALS9
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MARK3
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POLR1D
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PDE4B
ISYNA1
HSD17B7

RASD1
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PLA2G2A
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DLL4
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TRPM7
PGPEP1
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WDR11
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PTGER4
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MIR499A
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AHRR
MAVS
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PTPRM
PTPRN
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PVALB
PVR
NLRC4
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RABGGTB
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RAF1
RAP1A
PLAAT4
ACE2
HRH4
REL
REG1A
RELB
REN
RFX1
ACTB
BCL3
RNASE2
RNF6
TNFRSF17
OPN1SW
RPA1
BCR
RPS4X
RPS6
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BMP2
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VSIR
VEGFB

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FBXW4
EXO5
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GGCT
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TSGA10
ACTL8
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PAK1
SHANK1
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LRP1B
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SMAD3

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FASLG

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ETS1
FGF2
RASGRP3
ANGPT1
GSTT1
ERVW-1

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REG3G
COX8A

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TOP2A

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ACSS2
PROS1
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BAG1
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PTGS2
PTX3
PLEKHB1
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BCL2
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SCNN1G
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SLPI
SOD1
SPI1
STAT3
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TSPO
TLE1

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AGGF1

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EPAS1
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FBN1
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FOSB
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JUNB
JUND
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PRKAB1
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SPAG11B
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RCC1
DCTN3
CHP1
PHB2
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OSER1
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PPARA
ANO1
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MAP2K5
B2M

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STAT5B
STAT6
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DNER
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CDK4
ADAM10
PATJ

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CSF1
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PRKCB

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TRPC6
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COQ8B
JADE1
CALD1
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CLDN1
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VANGL2
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EGR1
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GFER
KDR
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HDAC7
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GGT2
GGTLC4P
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CALCR
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RAPGEF5
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HNF1B

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CRYZ
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XPR1
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ABCG2
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ZNF365

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ANGPT2
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FANCG
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BPY2C
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SIRPG
PRB3
SRGN
HAUS7

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POTEM
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ACTG2
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GGT2
GGTLC4P
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ETV5
MAST2
AOC1
SPAG8
GAS6
ABL2

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DMC1
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PWAR1
HORMAD2
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VCX
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SHOX
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ARMC2
EHMT2
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ZP3
PWRN1
CFAP43

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AZF1
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TDRD1
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FANCM
TTY2
AGBL5
BGLAP
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CRISP2
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VIP GGCT
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GNLY
AHSA1
CETN2

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DEFB1
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DNMT3A

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HSPB1
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SULT2A1
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PDAP1
TUSC2
MGLL
NLRP3
GSTO2

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PRM1
RETN
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CCND1
ACTB
PROK2

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BECN1
ASAP2
ARTN

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CTH
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ACTB
PROK2

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ARMC2
EHMT2
TTC19
PTGER2

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CYP19A1
CATSPER1
DAZ2
USP9Y

SUN5
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DAZ3
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FANCM
TTY2
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LIMK2
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SEMA4D
CEBPB
CIB2
NEBL
G2E3-AS1
LINC01638
AGR2
HTATIP2
SLC34A2
CCEPR
SLCO1B1

CDC42EP3
P3H4
PDLIM5
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IGF2BP1
MDC1-AS1
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CETN3
CFL2
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PLK2
WASF3
FRS2
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PGRMC1
CEACAM7
NMU
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EHMT2
MLLT11
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SLC38A3
SDS
VAX1
DSTN
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UBE2C
RAPGEF4
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CHGB
KAT7
PTP4A3

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ANXA10
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POLG2
PDCD10
PADI2
MAN1B1
CYTOR
IL17F
SLCO2B1
ESCO1
CIRBP
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H3P42
ANIB1
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ADH1C
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COL6A3
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COL10A1
COL11A2
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CPS1
CPT1B
FOXR2
CRKL
ROMO1
LINC00355
PRIMA1
SLC38A6

LINC00526
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CTNNA2
TTL
CTSS
CUX1
CDCA2
LINGO2
CYP27A1
CYP27B1
DAPK3
DBH
DCK
AKR1C1
TMPRSS6
RASSF6
DFFA
ABHD11-AS1
DHCR24
DHFR
DIO3
DLG1
SARDH
DNA2
DNM2
DXO
ATN1
DSG3
AGTR2
E2F4
ECM1
EEF1B2P2
EFNB2
EIF4G2
LCE4A
ELF3
APOBEC3A
APLF
SLC39A11

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ETV4
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FH
FHL1
VASH1
CILK1
ZHX2
FOXG1
SIRT2
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SNW1
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DAAM1
SPEN
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STAB1
PLEKHM2
PRRC2C
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RAB38
IFIT5
FRA16D

LINC00612
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CFAP45
CIZ1
TTLL1
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BRMS1
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NOC2L
GAS1
DGCR5
GNL3
NUPR1
GDF2
GDF9
GEM
B4GALT1
CBLIF
USP21
NOX1
FOXP1
AFF4
NAAA
GLS2
BMP10
BHLHE22
GLI3 GLO1
SLCO1B3
STK32C
ANKRD52
LINC00346
UTS2R
ANGPT1
CISD3

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LINC00319
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HOXA-AS2
LIN9
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GRB2
LAMTOR2
BZW2
ASAP1-IT1
DROSHA
TBK1
GRM4
CXCL2
GTF2H4
BLNK
TFCP2L1
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STRN3
SLC39A2
OBP2A
GZMA
TLX3
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H2AZ1
ANXA3
HDGF
CFHR1
UBE2K
HLA-DMA
HLA-DRB4
HLA-F
AOC2
AOX1
NR4A1
FOXA2
HNMT
HNRNPL
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HOXD10
ZAR1
AGFG1
HRH1
HSD3B1
HSD3B2
HSPE1
APOA1
APOA4
IBSP
IFNE
ID4
IFNAR1
IFNAR2
IFNW1
IGFBP1
APP
IKBKB
IL4R
IL5
ILF3
AQP4
ING1
ING2
INPP4A
EIF3E
IRS1
ITGAV
ARAF
ITGB3
ITPR1
ITPR2
ITPR3
JAK1
JUNB
JUND
KCNH2
KCNN3
KIR3DL1
KNG1

KIFC1
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KRT6A
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IL31
SNHG5
LIN28B
LAMC2
STMN1
LCN1
LCN2
LCP2
LDHB
LEPR
LETM1
LGALS4
LGALS7
LIG3
GSEC
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TEX19
LMX1A
MBNL1-AS1
CASC15
LTB
BCAM
MIRLET7E
MIRLET7G
MIRLET7I
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MIR125A
MIR127
MIR134
MIR199B
MIR212
MIR217
MIR22
MIR24-1
MIR296
MIR30A
MIR30B

MIR30E
MIR7-2
MIR7-3
MIR99B
MXD1
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MAP6
MAT1A
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FOXO4
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MIR196B
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MT1X
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MTNR1B
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MUTYH
MYBL2
MYD88
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NEDD4
NEDD8
NELL1
NF2
NFATC1
NFIX
NFKB2
NME2
NOS1
MIR377

MIR379
MIR381
MIR423
OPCML
OTX1
P2RY1
PA2G4
DUXAP10
PEBP1
PAEP
DUOX2
IL20
GEMIN4
PCBP2
PCDH7
PI15
PCMT1
ING4
IPO11
PLCE1
PCSK1
CDK16
GOLM1
PDC
MEX3C
WNT16
TRPV2
PDE4D
DCDC2
GTSE1
SIRT7
SIRT6
RAB14
PDGFRA
IL23A
EEF1AKNMT
PDK1
RTRAF
SF3B6
PDK4
PECAM1
INPP5K

PENK
PFKFB3
PFN1
PGM5
PIK3C3
PKD2
PKP2
PLOD2
ATP7B
RIPK4
LURAP1
PODXL
POLD1
SOX18
PON2
DGCR8
ATR
DLL4
POU4F2
UGT1A9
CCNJ
MED1
SLC35F2
LY6K
PPM1A
PPM1B
PINX1
PPP1CA
TESC
MARCF1
FEZF2
ATG2B
RALGPS2
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PBRM1
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NAT10
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TMEM40
LAPTM4B
HJURP