

Supplementary 3. Gene sharing of urological diseases and MS

Names	total	elements
Group-Infection Ms	675	CD44
		MMP2
		KCNMA1
		GRAP2
		MEFV
		EDN1
		DECR1
		CXCR4
		IRAK1
		IGF1
		MIR20A
		GAS5
		GDF15
		MMP7
		NOS2
		SOD2
		FGFR1
		COPD
		HLA-DRB5
		CXCL13
		B3GAT1
		LEP
		CCL22
		PTPN22
		BRCA1
		CYP2D6
		PRKCB
		CYP2C19
		A2M
		MIR132
		TLR1
		IBD5
		FOXP3
		CCL19
		CLEC4E
		CD38
		LAIR1
		IL17RC
		TPI1

APOE
AIRE
C3
HSPD1
F2RL1
INSRR
MZB1
YME1L1
SERPING1
BCL2
ATP6
KL
PIK3CB
TNXB
COX8A
HLA-DRA
MFN2
LRRK2
IKZF3
IL5
AGT
CST3
CHI3L1
CIITA
CRP
FANCC
GLA
NPHS1
GSTP1
PAEP
IL5RA
IL18BP
TNFSF12
IL17C
FN1
MTR
NFE2L2
IL23R
KLF4
YWHAZ

HP
BTK
TRAF2
IL22RA2
ASAP2
MIR29B1
MTCO2P12
PPARGC1A
OPN1MW
PLA2G6
GC
MBL3P
TNF
MIR29B2
HSP90B2P
IL23A
EGF
IL1A
FST
ITGB1
LDLR
ELAVL2
SGK1
SELP
NAIP
TNFRSF17
JAK2
TNFRSF1A
CASP1
SPP1
MIP
IFNAR1
PTGS2
BMP7
OSM
B2M
AGER
TCF19
CTNNB1
HPGDS

MICA
IL21R
FCGR3A
CYP2C9
NPY
IL18
CCND1
CCL4
TRPM2
S100B
TAC1
ESR1
PRF1
ACE2
CMKLR1
ERVK-20
GNG2
ITGB2
CPB1
KAT5
DHCR7
PSMB8
VEGFA
PIK3CD
TGFB1
ACKR2
MYC
ARSA
SOCS3
TIMP1
IL13
CD86
MIR21
KIF1B
MBD2
TNFAIP3
BLK
AGA
MMP1
STAT1

HLA-DQA1
MMP12
STMN1
TNFSF13
DLL4
PTGER4
CD68
CCR7
RGS1
ARHGEF5
BSG
TRPV1
PTPRC
CCR4
CD14
ANXA2
HORMAD2
FH
NR3C2
GSR
CCL11
HMOX1
FCGR2A
INS
EBI3
FCGRT
BGLAP
MMP3
MIR590
TRAF6
CCL18
CCR6
AXL
CD276
GATA3
BRCA2
CXCR1
MMP8
FOXC2
RPS6

ERVK-6
ADCYAP1
GSTM1
SH3BP2
IL10
MAPK1
MIR214
PLA2G1B
OCLN
RBM45
PADI4
TNFSF11
CXCL2
EGFR
SOD1
BCR
CXCR3
GPBAR1
CTLA4
NR4A1
CREB1
TLR7
CEACAM5
POLDIP2
LGALS3
HSPA14
IL17F
IL4
CD28
SELPLG
CNTN1
KRT20
HLA-DPB1
QTRT1
CD74
MAPK8
F10
HLA-DQA2
F2R
THBS1

ABL1
GZMB
FCGR3B
VIP
AKR1B1
HLA-G
LRP2
CYBB
MYDGF
C2
IL25
PLA2G7
CCL1
SOCS1
MIR155
IL17RA
PTH
IGHG3
PTPN6
MIR25
TNIP1
KNG1
ITGAX
TIMELESS
IL1RN
SEC14L2
TFPI
AFA1
ENO1
CXCL10
PLG
IL10RA
STK19
POU5F1P4
TSLP
NHS
IL4R
CCL5
BTNL2
TP53

OTUB1
ENTPD1
LINC-ROR
MX1
RELB
NLRP1
LINC01193
CASP9
MAP3K7
PDCD1
GTF2I
BRD2
IL32
CAT
CPOX
ADAM17
MBP
ADM
MIR150
IFIH1
POU5F1
USO1
MASP1
NFKB1
SIRT1
TNFRSF6B
IL1B
REN
MFAP1
MIR422A
CXCR6
HPSE
ADNP
POMC
IL9
DDX39B
DNM1L
ALB
C1QA
AGBL2

HAMP
DCN
NOD2
IL21
HLA-C
CX3CR1
GAPDH
TLR2
P2RX7
ABCC8
IL18R1
GAS6
SERPINA3
HLA-DRB3
MT2A
EPHB2
HAVCR2
ESR2
TRBV20OR9-2
EPO
APRT
HGF
ITGAL
FANCG
GNB3
FANCD2
HMGB1
LBR
CCL13
DNASE1
LPP
BID
MIR146A
TGFB2
MSC
BTLA
NLRC4
EHMT2-AS1
MBL2
PLAAT4

NGF
MSN
ALOX5
NLRP3
TRPM8
TGM2
MECP2
MAP3K5
ALKBH1
MIR30A
NOS1
PRL
TIMP3
MTHFR
DPP4
IKZF1
IFNA2
PLA2G2A
LGALS1
FAS
PON1
BDNF
SEMA3A
CYP21A2
LOC102724971
NM
ABCA1
TNFSF10
MUC1
TNFRSF11B
C3AR1
AICDA
MIR320A
GPI
ABO
TRAF3
CXCR2
STAT4
CD40
CASP8

CFH
TAP1
FCRL3
EHMT2
CDX2
PPARG
MERTK
JAG1
CHGA
ALOX15
HSPA4
DHX40
CCL7
CXCL11
SERPINA1
HLA-DQB1
CXCL8
EGR1
CCL17
OGG1
IFNL3
AFP
SELE
CNR1
ABCB1
NR3C1
CCL27
IL17A
LEPR
MTOR
VPS51
WT1
MAPK14
SERPINB2
TXNRD2
TNFRSF4
HLA-DPA1
CDR3
CCR2
SMAD7

MPO
HLA-DMB
CSF3
PRKAR1A
HLA-A
ATG5
CD27
FAM167A
ASIC1
CD226
STAT3
CD2AP
CCL20
SPHK1
ATN1
IL22
COX1
P2RY2
RGCC
FLNB
WAS
IL15
ATM
MCAM
AGTR1
MC1R
CD46
PTX3
ICOSLG
ADRB2
SMAD4
NXF1
STAT6
OPN1MW3
IL3
S100A1
HAVCR1
S100A8
RNF5
TNFRSF13C

AIF1
AIMP2
ACHE
TNFRSF12A
ATF4
CCL2
MIR125A
TXNIP
GABPA
POU5F1P3
IL6
TLR3
ERVW-1
ANXA5
PPT2-EGFL8
ATF7IP
MIR15B
TNFSF12-TNFSF13
HSP90AA1
CASP3
ANGPT2
TSBP1
PARP1
CXCR5
ITGA4
VDR
ACE
ITGAM
CD34
FASLG
PPT2
CD163
KDR
SYT1
TYROBP
RARA
MIR148B
PECAM1
MS4A1
MYD88

WDR11
MIR145
PPARA
CNR2
CBLIF
PMEL
IL2RA
CCR1
CRYGD
AHSA1
IFNA17
GPR183
NPEPPS
CD80
RASGRP1
PSORS1C1
PIK3CG
LPA
IL37
NQO1
C20orf181
CIC
PIK3CA
IRGM
TSPO
IL2
SDC1
IGFBP1
DDIT3
CDH1
FOS
IFNG
HSPA5
RETN
HPT
TNFSF13B
CLU
IRF5
CXCL12
TET2

TTC34
SRSF1
MDK
CX3CL1
IFNA13
ICAM1
CXCL9
CAV1
BCL2L1
CD19
TNFRSF1B
LGALS9
IGHA1
ETS1
ISG20
CXCL1
HIF1A
RELA
TRAF1
NOS3
TGFA
CD48
PRRC2A
CDKN1C
IL7R
ACTB
TLR4
CCL21
ADAMTS13
IL16
VCL
SERPINE1
OPN1MW2
MIR17
VCAM1
PTAFR
COX2
TLR9
IL33
HLA-DMA

IFNA1
HLA-DRB1
HLA-B
CRK
JAK3
HSPA1B
GCG
LY6E
CFB
DDX58
AKT1
FOXP1
CCR5
CYP2B6
CUX1
PON2
NNT
PLB1
HLA-DQB2
MIF
ELP1
AIM2
IRF8
TIMP2
CCN3
IL11
MMRN1
LCN2
RNF19A
TXN
DDR1
IFN1@
TNFSF9
CFP
APOA1
CD69
LTA
WNK1
CDKN2A
CCL3

TAM
ATG16L1
ERN1
CSF1R
NOTCH3
CXCL16
NRG1
CAST
TNFSF14
PRRT2
TSBP1-AS1
AR
ZGPAT
ANP32B
PXK
IL2RB
NOTCH1
CD274
BAX
CP
LOC102723407
GORASP1
TNFRSF10D
PRKCA
GSTT1
CD40LG
IL7
TP63
FGF23
UBC
PSMB9
CSF2
S100A9
RPS6KB1
MMP9
ADIPOQ
EIF2B5
PINK1
ERCC5
CNTNAP1

Ms

1171

TKT
HSPB1
DDT
SALL1
SLC52A1
CYTB
TPX2
CNGB1
MYO9B
PRKRA
TLN1
ERVK-2
LILRB2
TPRG1L
ZEB1
ERG
MIR15A
ERV3-1
KCNK3
TOP3A
HLA-DRB4
SLC15A2
MTNR1B
BANK1
PCSK1
TMEM39A
RAB40B
NR4A2
SORL1
SYN3
SLC25A14
ERVK-12
DHRS11
RIOK1
RABGGTA
CRYGC
S1PR2
HNMT
BSN
GPC5

IGH
C1QTNF3
LINC01620
NECTIN2
CD1A
HSPA1L
CST7
DYSF
SLFN12
MTRR
TNFRSF9
NAT8L
LOC390714
EVI2A
DMTN
RBPJ
DNAJC5
PSMG4
GJB1
EP400
PKIA-AS1
TRAPPC9
NELFE
P2RX3
SORT1
RLFP1
OTUD3
BCHE
KIR2DL4
NFKB2
TNFRSF10A
ALCAM
SBNO2
BDKRB1
P2RX5-TAX1BP3
CD6
CELF1
TERC
SLC9A9
NLRP5

EDNRA
POLG
IRS1
IDO2
GNA11
FSIP1
LIF
ACOT7
QKI
KDM6A
WNT3
NCAM1
CLSTN2
PTGES
FGF1
IL6R
PLD1
GCA
DHX16
EPHA4
LINC01967
IMMT
MARK3
FIRRE
KLHL7
CCR3
C1orf141
MIR340
DOCK11
FXN
CYP7A1
STAT5A
ADRA1A
PTPN2
SPG11
LINC02571
NFYA
AHI1
COP1
RGS14

GFI1
H3P44
AHR
VSIR
ACO2
TPMT
SH2D2A
KLKB1
ARMH1
HDAC3
KLRC1
SKAP2
TAGAP
IFI16
GALR2
TRB
RIC3
CDSN
TBX21
SSRP1
CCL26
PCAT1
ETFA
AHRR
LCN1
VMP1
CHAF1A
VN1R17P
IL17D
VRK2
OAS1
NDRG2
DCTN1
SIRT2
GANAB
CASC19
PCBP1
GLDN
ATP2B2
CACNA1H

FYN
AGO2
PARK7
HLA-DOA
SOX10
ASCL2
HSPA2
FNTB
SHH
MIR210
CD177
SIRPG
TAC3
ERVW-4
CD8A
XAF1
GLI1
LINC02605
PHGDH
HCAR2
XIAP
EIF2B2
TALDO1
ERVK-32
SUMF1
MIRLET7E
OLR1
MIR645
NCF1
NEFL
IL31
HLA-DRB9
CBS
RMDN3
CHROMR
ATXN7
LINC01194
POTEKP
GAS8
NT5E

CD83
CD200
GAD2
BAG3
SLC16A2
GK5
NOTCH2
SIGLEC1
NEURL3
TOR2A
ZFP90
USP18
ATXN2
SLC30A7
PSMD12
BMP2
LINC01185
OLIG1
GPX4
TNFRSF19
KAT8
RABGGTB
GRM1
SNCA
GAP43
TNFRSF10C
HCG27
HOTAIRM1
HSD17B7
MEF2B
PTPN4
FOLR2
SLC19A1
XRCC1
MAS1
SNHG28
ENPP2
SLC7A11
PITPNM2
FHL5

APEX1
EOMES
SPATA2
NRXN1
NONOP2
NR4A3
SGSM3
BIRC2
IL10RB
WWOX
MACIR
CHIT1
GATD3A
KCNIP1
MAVS
HT
GAL
CALM2
SLC11A1
FAS-AS1
PDXP
KIR2DL1
TSPAN31
CLIC1
ELL3
CA12
MIR633
CRTAP
COLEC12
TNFRSF25
CARD16
DPP6
MIR326
MMP24
SPAST
NLRX1
SLCO6A1
ADAD1
TOR1A
MIR384

UCP2
PROC
HSD17B13
TBATA
ADGRG1
KIAA1109
TRBV5-2
HMGCR
CDH3
WTAPP1
DGCR8
NCOA5
COL9A3
CHGB
CTR9
ZNF767P
EIF2AK2
WNT1
DBP
IGHV3OR16-7
IDO1
CD1B
GRM3
GLO1
MC4R
TRPM7
MIR524
ND2
HOTAIR
CLEC4D
LALBA
LRRC32
CRHR1
EIF2B4
LPAR3
LMNB1
COL11A2
MIR301A
FMR1
ANGPTL4

HCG22
C9orf72
MPZ
ACOT13
MIR34A
LRP1
CYP27B1
FTO
SH3YL1
TREM2
PLAT
SDF4
TAP2
HOXB4
CLDN3
RASL12
SLC25A4
SFTA3
TYK2
KIR2DL5B
GBE1
PRKD2
RLS1
FSCN1
ZFP36L1
MIR648
CSGALNACT1
RMDN1
RAB3GAP2
KCNA3
SORCS3
CFL1
MASP2
C1QTNF6
MIR30D
HRES1
CEMIP
SLC25A27
STAT5B
CTSE

NOX3
RN7SL263P
GLIS3
HELB
SP140
APOD
LAD1
NOX5
PVALB
RAB4A
H2AX
PLEKHG5
TXNRD1
ZNF433
SLC16A4
BMP1
LACC1
LILRA1
PDE7A
DAXX
ELMO1
CYTIP
EEF1AKMT3
SLC25A20
LOC105379528
MYCN
SYNE1
NTF3
APLN
PSMD10
GTF2B
LINC00243
GSDMB
HRH1
MIR106A
TMEM74B
SYT11
MCC
RAB32
P2RX2

TNFRSF14
ROBO3
APOC2
GGCT
PTPRN
WFDC2
P2RX1
PSMD4
IFNLR1
METAP2
REG1A
H3P28
HBB
ERVH-3
NR0B2
CDC37
SLAMF7
PDE4B
SLC25A36
OGFOD1
MIR219A1
PHEX
RABEPK
POTEM
SYBU
CYP17A1
MIR22
GJC2
GSTT1-AS1
SP3
GPR17
TYR
ATP6AP2
ADAMTS3
GRM7
ARG2
LINC02580
SLC1A3
ICA1
ERVK-11

HNRNPA1P10
IGHV3-52
MIR140
STK11
LRCH1
MIR660
MIR455
KIR2DS1
EHD1
BAG4
LPL
SLC2A4RG
MPHOSPH9
PTPRM
LAMC2
EIF2B1
IGSF9B
ITCH
AK5
ERMN
NCOA2
USP8P1
EBNA1BP2
MIR181C
PTGR2
FCGR1A
CD47
KCNH7
SEMA4A
XRCC5
DLG5
AHSG
HDAC1
ATG12
RNMT
ICOS
MANBA
RPAP2
MIR27B
CD200R1

BRS3
PDCD1LG2
MIR196A2
IL12B
NCAN
ASMT
SH3GL2
NFKBIA
IGFBP3
TSPAN4
CLEC11A
TXN2
ARHGAP24
CPT1A
CEACAM1
GRIA4
DNTT
ZNF433-AS1
DLK1
ACTBL2
NINJ1
CERS6
DKKL1
EPAS1
S100A12
UBTF
DEXI
PHB
TPH2
IFNAR2
SPRED2
SCN10A
NCOA7
SLC30A3
PLP1
PMP22
APC
MIR665
OLFM3
CRLF2

FZD4
DHX58
MARCF1
FAM20C
TSFM
BCL10
TSHR
NAT1
HCRT
TNPO2
BACH2
HAP1
ACTG1
CALM1
ATXN2L
BMP5
OMG
PRCC
ZBTB46
FKBP6
MIR20B
FCRL1
HNRNPA1
AMIGO2
RALBP1
KIR2DL5A
HSD17B6
SLC16A1
MIR376C
TRIM5
APOC1
THEMIS
SOX2
CH25H
ND5
CYP1B1
COMT
MIR26A1
SPHK2
ROS1

ZFAT
VEGFB
SLC6A3
ACKR3
KLRB1
PVR
S1PR3
METTL1
AFF3
DARS2
PLXNA3
SLC44A4
RRN3
HMCES
TSPAN32
VAMP2
PRCP
PTN
PTPRCAP
EIF4EBP2
DHCR24
MIR31
HSPB6
PANX1
COX5A
RGMB
MATK
TSTA3
HSPB8
PXT1
MIR328
ARSF
KLK6
ANXA1
MALT1
RAP1A
KIR2DL2
ATP8
CA13
TFDP3

LGR6
SLC25A37
SLC6A4
HCP5
AMBRA1
RO60
ND1
POLG2
NRM
CD4
MIR181A1HG
ITLN1
LINC01147
TUG1
IRF1
FABP7
DPYSL2
CD1D
CECR
PLEK
TRIM22
ACAD8
TPP2
GPR3
GJA1
RAB3GAP1
PDLIM7
GRM8
CSN3
BDNF-AS
CLDN11
NR1H3
SLC44A2
RMDN2
MIR18A
AADAC
SARS2
CCR9
RAC2
CSGALNACT2

PTPN11
ATF3
CARD11
THRIL
LINC01934
MS
GJB6
RTN4R
BTG1
YTHDF3
ZBTB38
OSTF1
PLTP
HRH4
BTF3P11
EZH2
DOCK8
PIAS3
HLA-E
MYO1C
SGPL1
MIR127
LILRB4
ZNF596
POU2AF1
PNMT
FOXC1
HSPB3
DDAH1
MIR223
MGAT1
CRYAB
MGAT5
PART1
PSMB6
PTHLH
SLC40A1
MIR27A
OPN4
LBP

NKRF
MRGPRX4
MBTPS1
TNFSF15
NEFM
ASF1B
USP16
SYN1
CDKN2B-AS1
RPS4X
SND1
IFNG-AS1
F9
RNASE2
BCAP31
IGFALS
DUOX2
ARHGEF2
MIR23A
HSPB11
TRNL1
ITGA1
LAG3
HACE1
MOG
GPR151
ERAP1
AQP4
IGHV3-69-1
DSG2
MYNN
CNN3
LRRK2-DT
IRF6
EVI5
TP73
DLL1
TMPRSS6
ANTXR2
MAPT

RPSA
KIR3DL2
TAC4
CENPO
RIPK2
CD58
GZMK
MIR3681HG
ZNF410
CDR2
KLRC2
MYT1
TRAT1
EGFL7
PIK3R3
DNALI1
GPR166P
CDH17
MROH3P
YY1
ZC3HAV1
CDKN2D
FBXW4
INS-IGF2
SEC14L3
FES
AOC3
TOB1-AS1
CBLB
CETN1
OAS3
P2RY1
SNAP25
SMPD1
MIR448
TH
P2RX6
CNTF
RAF1
TIGIT

ZIC1
PRPF6
KLRK1
DEFB103A
UQCRFS1
MPV17L2
GSN
GPRC6A
P2RX5
ST8SIA1
ERVK-22
PLA2G4A
DRD2
UNC13D
H3P29
SLC1A2
RFX1
ANO2
TLR8
IGHV4-39
B4GALT6
ADAMTS4
MIR99B
EDNRB
LDHA
GRIN2B
ADAMTS14
CHAT
MIR922
CCDC134
MPP1
HTC2
CYP7B1
IFNGR2
MCCD1
H3P13
KIF5A
ARG1
ASCC2
HBD

PCK1
GALC
STING1
TSPAN33
TGFB1
P2RY12
LRRC34
NOX4
GRK2
LRPPRC
LINGO1
EBF1
NINJ2
HLA-DRB2
SPINK7
CRTC2
SEMA7A
GTF2H4
HSPA1A
SUGP1
LIG4
BMP4
TMED5
KIAA2026
ABCG4
PRDX5
KIR3DL1
KCNJ10
PRSS3
CSMD1
SNORA38
PER3
LOC102723971
VAV2
TNK
TP53BP1
AMACR
PTPA
GRIA3
C1QTNF9

MST1
GOSR1
JAZF1
SGCG
TYRO3
CUX2
MMEL1
ADRM1
ERVW-2
SOAT1
CTNNA3
ATG16L2
IQCB1
SKIV2L
OASL
IL12A
ARNTL
PUS10
PRNP
PDIK1L
SHMT1
AGAP2
ADA
IL27
MAZ
HLA-F-AS1
EIF2AK3
LPAR2
LINC02357
BATF
LINC02656
VIPR2
TEF
MRGPRX1
ADGRA2
TRPM4
ISYNA1
UBASH3A
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DUOX1

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BAG6
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CLDN12
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OPN1SW
DSPP
TPSAB1
MST1R
RTN4
MIR126
PHRF1
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ARHGAP31
HLA-F
PIK3R4
CAMKMT
TUBA4A
MMP28
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EDIL3
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KRIT1
RORA
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GPR37
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NFASC
DDIT4
CLDN5
BST2

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STX1A
CSTF2
TGFB3
INPP4B
BMPR2
MYRF
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SNPH
GGNBP1
ADAMTS1
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ADRA2B
PSG2
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GZMA
ACKR1
GPR42
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RREB1
ANKFN1
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CRYGEP
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RPL5
CLECL1
SP1
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MIR200A
GSTK1
S1PR1
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CKLF
ERBB3
SLC1A1
SLC1A4
SNORD27
HINT2

MOK
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TGM6
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COL2A1
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HCP5B
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NCR1
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SIL1
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RIPK1
KIR3DS1
SOX8
ATXN8OS
MIR191
HPRT1
MIRLET7I
RNASEL
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SPARCL1
CA2
IL6ST
TIMMDC1
CRYZ
POLR1D

MRGPRX3
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PC
PDZRN4
CARTPT
CNTNAP2
TCIRG1
SH2B3
TNFRSF10B
H3P24
RASD1
GRN
ERVK-18
IRF1-AS1
SLC2A4
MAP2
SIRT1-AS
TNFRSF11A
ANPEP
OXER1
PRLR
FGFR1OP
CEACAM7
MIR96
PADI2
NFATC2
DST
KMT2A
XBP1
BUB1B
PRDX2
SARS1
NOTCH4
CLEC12A
SIRT3
COL17A1
GFAP
CALM3
APCDD1
PRSS16

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CR2
IFNGR1
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DLD
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NOG
MLANA
CD300LF
JAK1
CXCL5
IL12A-AS1
S1PR5
GSTO1
FLOT1
MMP25
FABP4
P2RX4
CANX
ZMIZ1
DESI2
ABCA7
SART3
SYT14
SCN8A
FAM107A
RGMA
LILRA3
FDXR

CDCP1
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TBC1D2
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PSMD7
GRM4
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MALAT1
L3MBTL3
MAFTRR
EIF2S2
GH1
BCL3
DUSP15
SYVN1
CCL15
P4HB
LINC01672
SAE1
CERS2
MIR572
AMT
DEFB103B
CSN2
TDO2
NAA25
CTSH
LGALS8
LAMA4
CTSZ
TRBV20-1
NR1I2
KIF21B
LMNA
TMEM119
KCNK5
FOXO3
IFNB1
PSEN1
UHRF1

EPS15L1
MIR499A
CYP46A1
PVT1
GGTA1P
GSDMD
RELN
ANKRD55
GEM
TRA
DHODH
UBE2D2
DGCR2
ARHGEF10
GAD1
DLEU1
CISH
GABRA3
NDFIP1
ABHD6
FLNA
CDKAL1
MIR548AC
RMI2
CYP24A1
SSTR4
TRIB2
GHSR
STK17B
ICAM5
CYP3A4
PGPEP1
KLRD1
RNF6
VAV1
GRIA2
APP
TOB1
LANCL1
CEACAM3

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		ARNT2
		ITPR3
		BIRC3
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Group-Infection	1067	FSTL1
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		HPSE2
		MT1B
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		SLC4A1
		PRADC1
		MPL
		SLC25A3
		CFHR5
		LMAN1
		IFT122
		NTRK1
		CYCS
		EP300
		PEBP4
		DNAI1
		COL4A5
		SLC33A1
		PON3
		UPK1A
		PAPOLA
		XK
		MET
		PDLIM2
		SPN
		SFTA2
		MAX
		MIR4511
		TNS3
		IGSF3
		LONP1

UGT1A1
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HOXA13
SERPINF1
HMX1
LHFPL2
ITGA3
GGT2
LPAR4
GADL1
RUNX3
HCST
POU3F1
C5AR1
H3P8
CNN1
BAZ1B
LMNB2
ELANE
MT1JP
COL1A1
SLC8A1
HES1
CLDN16
ISL1
GSS
SPAG11B
LYPD4
SELL
MKNK1
SERPINB9
RIPK4
NEFH
RING1
LAMTOR2
FOXO1
SMUG1
USP14
GATA6
PF4

NR2E3
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RFXAP
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EMP2
MRAP
EIF1
PTK2
SHBG
LAMP3
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USP7
MIR193A
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COL18A1
FCN1
SF3B6
BCAM
IMMP1L
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NPR1
BARX2
PACC1
WDR19
RICTOR
ATR
IRF3
HVCN1
TACR1
APOBEC2
LAGE3
LTBP1
SLAMF1
PPBP
SDC2
EZR
MAN2B1
FGFR3

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CGA
VTCN1
RARB
PLA2R1
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NEU1
ADAMTS2
SPRY2
LTBR
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ABCC11
AURKA
RABEP2
SLC3A1
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FHL1
OSGEP
PCA3
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IFI27
GNAO1
GDF9
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ECE1
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KIN
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PDAP1
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CYP19A1
CD151
CYP3A5
SOX9
GGTLC4P

DEFB4A
FTH1
PITX1
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CARD9
JUND
PHB2
DDX39A
FANCA
MUC2
GDF2
ASAP1
IKBKG
NGFR
TCF21
DLST
C5
CMA1
PDGFD
PAWR
MFT2
PGM1
IRF7
UPK1B
MAP1LC3B
BRSK1
HBHR
THY1
NTN4
KIT
UCA1
C1GALT1C1
TYRP1
CORO1C
ATD
ABCG8
SFTPD
FDX1
TRPA1
SDHD

CFHR1
KLK4
SPG7
MIR221
MIR183
FIS1
MIR141
TLR5
CLIP2
MUCL3
DNMT3A
UPK2
FCAR
UTS2R
ITGA6
C1GALT1
OXA1L
EXOSC3
PSIP1
ADD1
KDM6B
CHDH
SPAG11A
TRAIP
SST
BCS1L
LST1
WIF1
DVL1
FLI1
RHOV
BMS1
PODXL
MUC20
HRAS
NPNT
DEFA5
UBE2K
XYLT2
RRH

MDH2
PROS1
FIM1
MAP6
FCRLB
APOL1
DERL2
ACAN
ITGA2
GPR182
SHANK3
PAX2
MPDU1
GAST
UBE2L3
ADRA1D
WDR26
NTS
PHYH
RNPC3
MRC1
VPS50
PCSK9
BGN
SLC14A2
THEMIS2
BTBD8
PCYT1B
GSK3B
FOXO1
GPT
CLCNKB
APOM
MIR320E
ADCYAP1R1
SNURF
SEC61A1
OR10A4
SSBP2
HABP2

UBE2T
SLC2A1
KCNQ1
SFTPA1
RHO
CR1
SLC22A3
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EFEMP1
FOXG1
WFS1
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NAP1L1
GNLY
MMP11
YBX1
XCL1
BLNK
IGHMBP2
GGT1
COL4A2
C1S
BPGM
PPP1R15A
EGFL8
FOXP2
HTR1A
POLR3A
EIF4E
EXT1
SMAD2
IL20
EMB
IL17RD
SLC12A3
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PTGER2
ERCC4
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PLA2G12B

MT1E
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SFXN1
SCGB1A1
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TLR10
DKK3
ACR
ALOX5AP
POSTN
API5
RIPK3
PPP3R1
NAGLU
SPI1
POTEF
MMP14
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MDM2
THSD7A
IKBKB
SDHAF2
PAPOLG
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CYSLTR1
MIRLET7B
PRC1
APOH
ERBB2
FANCM
SMAD1
RNASE7
NPHS2
NEO1
CLEC7A
TAAR5
PDGFA
NOP53
NAT2
BAGE3

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CCL3L1
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SCT
DYNLL1
HM13
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PDE5A
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MYOC
GOLGA2
AD11
STAR
VIM2P
MAP2K7
GGTLC5P
MC2R
TAZ
STIP1
MMP26
GPER1
ESAT
HSPE1
CABIN1
TRPC6
DEFB4B
EHMT1
RASGRP3
TERT
SYF2
FZD8
HTRA1
CAMK4
ID2
ALS3
HADHB
MPV17

TST
THRA1/BTR
CDK2
NUP107
RUNX2
FDCSP
FGF10
DPEP1
MIR323B
E2F2
THRA
SCN7A
TIPRL
PCBD1
SLC7A7
COL4A1
RNASE1
TNFRSF13B
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GLI2
CNC2
MAP1LC3A
MNT
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GDE1
ACOXL
CHP1
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HORMAD2-AS1
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LAMB2
HNF1B
MYL9
ZMYM2
UMOD
UPRT
CDKN1A
DGKE
HS3ST2
LYZ

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CNDP1
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IGBP1
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ADRB3
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ABCB6
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DBA2
CERT1
CLDN1
FOSB
CHRM3
S100A7
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UBE2V1
PTPRU
ST6GAL1
TGFB1I1
MT1A
MPRIP
C4BPA
ALMS1
PAGR1
SCNN1G
TREM1
CYB5A
TIMP4
SLIT2
ITGAE
GALNS
SERPINB3
LIMK1
MIR4732

POLR2E
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BNC2
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PARP9
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ALG1
HEXA
GLP2R
NME1
IGAN2
FLII
AGTR2
CHPF
BRAF
MIR198
SERPINA5
LY96
KLK3
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PROCR
ITIH4
VUR
GJA5
SLC17A5
SOX18
CFD
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MLYCD
LAP
SDHA
SMAD6
SAT1
C9
SAFB
PNP
CD1C

PGR-AS1
IFIT3
AVP
HECW1
XRCC2
PTGER3
SLC30A9
STT3A
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SPINK1
NBAS
ATRX
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NBN
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FAN1
GSTA1
CYBA
PLAU
MDFIC
RAC1
CHRD1
TRAF3IP2
PTEN
C1R
PROZ
MTM1
RFX5
SMARCC2
SERPINA6
PTK2B
SDHB
SOX4
SH2D1A
FLVCR1
NRP1
PKD1
METTL8
PRDX6
AMBP

EXT2
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PTPRZ1
ACYP2
FCGR2B
RXRA
DEFB1
PKD2
CIB2
ACACA
SQSTM1
TMEM127
NFATC1
LARS1
CD55
CMIP
SMAD3
UCHL1
DNAAF3
ITGB4
MIR148A
MIR204
NPPB
APOC3
MIR19A
MIR3942
MUC3A
SLC16A12
CASP10
PLEKHB1
MUC16
FLT3LG
ATP5F1D
HBEGF
SLC15A4
MT1IP
CDKN1B
MIR192
CSF1
NLRP6

DNASE1L3
NEIL3
COPA
RTN3
ULK1
PKLR
CD36
MUC7
MYH9
MIR10A
DUSP2
MIR215
FANCL
URI1
MIR543
CDK2AP2
B4GALT1
CCHCR1
RPS27A
CLDN2
SNRPA
APOB
PIGR
CYP11B2
NRP2
IGFBP7
DCR
CCT
FGB
DEFA1A3
KRT3
ATP7A
C4A
BAG1
SERPINB7
NEAT1
RHOA
POC5
ITGA8
PRKCD

RBMS2
MT1M
MYBL2
COL4A3
PPIG
TUSC2
TAPBP
RET
PRKAA1
RUNX1
ENAH
HLA-DPB2
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ECM1
HDAC9
GLP1R
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IREB2
TUBA1B
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MSI1
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THBD
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EMP1
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TM7SF2
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SNRPE

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RAPGEF1
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VEGFC
INVS
CDC42BPG
PDGFB
ELN
VIM
CALR
LTB
SNRPD1
DES
FGFR2
PCNA
BEST1
MYCT1
TNMD
SMN2
IL34
TBXAS1
EBF3
CEP83
DUSP1
PUJO
SLPI
RAD51C
PLEKHA7
MIR1224

ADAM10
SULT2A1
TRIM27
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DEFB104B
VWF
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PFKFB3
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SUMF2
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USP2
CISD2
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PER2
PRAP1
PFKM
SCARB1
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TFRC
GREM1
MT1X
KEAP1
REG3G
RXFP1
SERPINF2
FBN1
C7
FANCF
TBL2

PTPRVP
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AZU1
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IGAN1
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SKA1
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HMGB2
EPHX2
ANGPT1
NANOS2
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MTPAP
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CLDN19
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PHLDB1
SPESP1
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RGS2
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PHIP
RFWD3
ANKRD16

MIR205
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LOC110806263
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RFC2
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LAYN
MGLL
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TTR
PTGDS
PSAP
MYOM2
CYP1A2
TNFSF4
OPTN
HGD
RBP4
CDO1
S100A4
DNASE2
RARRES2
DNMT1
BRIP1
TRIM21
CFI
CLEC14A
NLRC5
SLX4
PALB2
FABP1
HELT
CD5L
COL4A4
MARCF10
TAT
TBCA
IGK
STIL

HNP1
MT1L
FFAR4
HSPA9
AXIN2
CD79A
CLCN5
IL1R2
MAGI2
NELL1
SLC9A6
TBPL1
WG
NIN
SYK
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PLA2G15
PSAT1
PLAG1
JUNB
UPK3A
MIR135B
SLC7A9
FGF2
PAMR1
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WNT10A
RRM2
PWAR4
EPHX1
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TOP2A
AIMP1
PRTN3
FEN1
EFEMP2
ANKRD50
RECK
ALDH1A1
FANCI

MAPK3
SNRPN
ABCD1
CTSL
PLEC
HPLH1
DNAJB9
CTBS
MMUT
IL22RA1
HSP90B1
APCS
MIR92B
ABCB4
TNIP2
MIR100
PAK5
FAH
HNF4A
CD81
MIR133B
RPS19
C1QB
KHSRP
TRAC
KIF15
MIR10B
CAMK1D
BAP1
NPPC
CYLD
PKN1
RHBDF2
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ACP3
SLC46A1
DKK1
ARL3
S100A10
THOC6

MIR139
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INPP5D
PTPRO
MIR1260B
MIR29C
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B4GALT7
SDHC
ITFG1
AZIN2
ZNF185
TCF3
CCR10
NEUROG1
SMN1
XKR6
BACH1
CUL9
SFTPA2
DTL
CENPV
ST6GALNAC2
INSR
TGFB2
NT5C2
DIANPH
CIB1
RAD51
MEST
MIR146B
HTRA2
MMD
MYMX
KLF15
TCF7L2
OGA
PIP
CORO7
LAPTM5

GPANK1
CCND2
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FCN3
GBA3
CXCL6
EIF4A2
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SLC5A1
NES
EGLN3
MIR425
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MUC5AC
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LMX1B
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MLXIPL
C4BPB
PFN1
KRT5
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MIR371A
F2RL3
CFHR3
GTF2IRD1
FCRLA
LTC4S
SEMA5A
MIR217
H3P10
MT1H
FOXD1
GPRC5B
SAMD9
KITLG
SUMO4
ELL2
SPARC

FANCE
BECN1
ANKRD1
PTGS1
SERPINC1
F3
SYNPO
MIR3074
PDSS2
TPSD1
LARS2
PSME3
SIGLEC7
MIR7977
SNED1
AHNAK2
ETV6
GOLGA6A
TRPS1
JUN
IRAK4
MIR186
TBC1D9
TREX1
AOAH
TRIM15
MTMR3
PGM3
SNAI2
CRKL
CDKN3
MPG
ITPRIP
CYP2J2
HSPG2
TFF3
ATP6V1B1
LRPAP1
NT5C1A
VAV3

SELENBP1
FOSL1
COQ2
TRAF3IP1
DNAH5
MAD2L2
ADD2
RASSF1
LRIG2
SLC27A5
SKA2
TRAP1
SCN9A
FANCB
BTG3
PDGFC
JCHAIN
PEPD
MNX1
VHL
IFI44
C6
IGF2BP1
ELAVL3
PNPLA2
HDAC6
FBLN5
HCLS1
PMS2
GHRH
KCTD1
TOP1
RNLS
RXRB

Names	total	elements
Group-Urolithiasis Ms	110	CD44 ANXA1 IRF1 NLRP3 PRKCB BTF3P11 PON1 INSRR POU2AF1 KL TNFRSF11B PIK3CB EDNRA GNA11 AGT PPARG HSPA4 GSTP1 DOCK11 ADRA1A ZNF410 RGS14 FN1 AHR NFE2L2 CCL27 IL17A MTOR TNF ATP2B2 IL1A HLA-A SPP1 NCF1 HPGDS NOX4 PIK3CD TGFB1 HAVCR1

CCL2
GABPA
TLR3
IL6
ANXA5
LPAR2
BSG
HSP90AA1
CD14
VDR
TPSAB1
GSR
TRPM7
BGLAP
MMP3
GSTM1
FTO
PSG2
ADRA2B
PIK3CG
GPR42
NQO1
SOD1
PIK3CA
CEACAM5
CDH1
MAPK8
HPRT1
CA2
LRP2
CRYZ
MIR155
NOS3
PTH
CEACAM7
IL1RN
PHEX
SIRT3
MIR22
ENO1

HFE
CAT
HLA-B
AHSG
SIRT1
IL1B
REN
CXCR6
BRS3
POMC
MMRN1
LCN2
ALB
LMNA
SCN10A
NOTCH3
PRRT2
AR
FLNA
MIR20B
APRT
CYP24A1
SSTR4
GSTT1
PRKCA
HGF
FGF23
ACKR3
CEACAM3
HMGB1
MMP9
RRN3
HMCES
MMP2
TSPAN32
EIF2B5
VAMP2
KCNMA1
PINK1
PRCP

Ms

1736

ERCC5
DNASE1
GRAP2
PTN
CNTNAP1
LPP
MEFV
PTPRCAP
EIF4EBP2
EDN1
TKT
DHCR24
HSPB1
DDT
MIR31
BID
PANX1
DECR1
HSPB6
CXCR4
SALL1
COX5A
IRAK1
RGMB
IGF1
MIR146A
TGFB2
SLC52A1
MIR20A
GAS5
TSTA3
MATK
HSPB8
CYTB
ARSF
MIR328
PXT1
GDF15
KLK6
TPX2

CNGB1
MYO9B
PRKRA
TLN1
RAP1A
MMP7
MALT1
ERVK-2
LILRB2
KIR2DL2
ATP8
NOS2
TPRG1L
CA13
MSC
BTLA
TFDP3
LGR6
ZEB1
SLC6A4
SLC25A37
ERG
NLRC4
SOD2
MIR15A
HCP5
AMBRA1
ERV3-1
RO60
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ALOX5
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GJA1
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BRCA1

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EZH2

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CLSTN2
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PARK7

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HSPA2
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CTR9
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PPARA

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CREB1

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BCL2L1
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SPARCL1
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IFNLR1
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HCRT
TNPO2
CXCL16
MT2A
BACH2
NRG1
CAST
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HAP1
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UBE2D2
ACTG1
CALM1
DGCR2
ZGPAT
ANP32B
HAVCR2
ATXN2L
ARHGEF10
BMP5
OMG
GAD1
DLEU1

ESR2
CISH
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TRBV20OR9-2
PRCC
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FKBP6
ABHD6
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FCRL1
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BAX
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GHSR
STK17B
ICAM5
CYP3A4
TRIM5
PGPEP1
APOC1
KLRD1

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IL7
RNF6
VAV1
THEMIS
SOX2
TP63
CH25H
ND5
APP
GRIA2
CYP1B1
TOB1
COMT
MIR26A1
SPHK2
ROS1
ZFAT
LANCL1
VEGFB
SLC6A3
KLRB1
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CYP2R1
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CSF2
ARNT2
ITPR3
BIRC3
RPS6KB1
METTL1
LBR

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		SPEF2
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		CILP
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		FAM20A
		UGT1A1
		NAT10
		CHD1
		PKD1
		AMBP
		GGT2
		DEFB1
		CLDN16
		CLC
		DGKH
		ARL5B
		ATP4A
		CARMIL1
		ADI1
		HAO1
		GCM2
		CAPN1
		APPBP2
		ATP7A
		TFAP2B
		CALCA
		TRPV5
		SLC3A1
		PBX1
		ALPP

DGKD
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ATP7B
CYP3A5
GGTLC4P
HPR
PDGFRB
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INF2
SLC13A2
GNRH1
GGTLC3
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BEST1
CCAL1
PDILT
MED25
ORAI1
F2
PUJO
SLPI
UOX
PRPS1
GRHPR
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LAT2
SLCO1B1
CLCN7
TFF2
ITIH3
PODXL
ASRGL1
AP2S1
PRKAG2
MUC4
FOXO1
IGAN1
MTNR1A
CLCNKB

PDE1A
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ZNF365
KCNJ1
SLC12A3
INSM1
SLC36A1
EPB41L2
ANKH
NAGLU
CLCN5
MINDY4
CLDN14
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SLC12A1
CHCHD4P4
TPSB2
CAD
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CPP
WDR72
GGTLC5P
SHROOM3
CALCR
ANK1
GCKR
TERT
GRPR
GGCX
FBL

CDC73
WRN
PKN1
CASR
PLIN5
DPEP1
AQP1
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LINC00339
GLI2
INMT-MINDY4
RAPGEF5
MIF-AS1
HNF1B
UMOD
TCF7L2
OGA
ATP12A
ENPP1
HIPK2
CSTB
DMD
PDLIM3
SLC22A12
ITPKC
SLC5A2
ATRNL1
UGT1A
MARCF8
AGXT
GPX1
GALNS
SLC2A9
ATHS
NRK
PPARGC1B
TFF3
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LRPAP1
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BCAS3
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ALPL
MLXIP
PFN3

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		FGFR1
		NGF
		LEP
		GJA1
		TRPM8
		S1PR2
		NOS1
		PRL
		MTHFR
		PON1
		BDNF
		SEMA3A
		DDAH1
		BCL2
		PART1
		SLC40A1
		ALCAM
		PIK3CB
		LBP
		MBTPS1
		EDNRA
		CD40
		AGT
		CRP
		ADRA1A
		PAEP
		CNR1
		NFE2L2
		HDAC3
		VPS51
		P2RY1
		TNF

EGF
DRD2
SOX10
SHH
TAC3
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ARG1
AGER
P2RY2
GRK2
CCND1
BMP2
ATM
MCAM
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VEGFA
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S100A8
SOAT1
ACHE
IL27
GABPA
IL6
CASP3
ANGPT2
CLOCK
ACE
KDR
MYD88
BGLAP
WDR11
SACS
LMNB1
FMR1
DDIT4
PIK3CG
MIR200A
CXCR3
PIK3CA
SDC1

CFL1
CXCL12
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APOD
MAPK8
ATXN8OS
BCL2L1
VIP
MIR155
NOS3
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ACTB
IL7R
TLR4
HFE
ARG2
PTAFR
COX2
LPL
MBP
FABP4
AKT1
AHSG
GH1
IRF8
SIRT1
POMC
IGFBP3
ALB
HAMP
AR
FLNA
EPO
BAX
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APP
COMT
ROS1
SLC6A3
PSMB9
GNB3
ADIPOQ

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	VAMP2
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	PRCP
	ERCC5
	DNASE1
	GRAP2
	PTN
	CNTNAP1
	LPP
	MEFV
	PTPRCAP
	EIF4EBP2
	TKT
	DHCR24
	HSPB1
	DDT
	MIR31
	BID
	PANX1
	HSPB6
	CXCR4
	SALL1
	COX5A
	IRAK1
	RGMB
	TGFB2
	SLC52A1
	MIR20A
	GAS5
	TSTA3
	MATK
	HSPB8
	CYTB
	ARSF
	PXT1
	GDF15

ANXA1
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TPX2
CNGB1
MYO9B
PRKRA
TLN1
RAP1A
MMP7
MALT1
ERVK-2
LILRB2
KIR2DL2
ATP8
TPRG1L
CA13
BTLA
TFDP3
LGR6
ZEB1
SLC25A37
ERG
NLRC4
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HCP5
AMBRA1
ERV3-1
RO60
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ND1
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NRM
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CD4
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TUG1
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MTNR1B

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MSN
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B3GAT1
SORL1
ALOX5
ACAD8
TRIM22
PLEK
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BRCA1
RABGGTA
CYP2D6
CRYGC
TGM2
HNMT
MECP2
BSN

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CCR9
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C1QTNF3
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IBD5
NECTIN2
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HSPA1L
FOXP3
THRIL
CST7
GJB6
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LINC01934
RTN4R
CCL19

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MTRR
YTHDF3
DPP4
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ZBTB38
OSTF1
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DNAJC5
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APOE
PIAS3
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C3
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LILRB4
HSPD1

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MUC1
NFKB2
TNFRSF10A
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KL
C3AR1
MIR27A
TNFRSF11B
SBNO2
BDKRB1
P2RX5-TAX1BP3

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TNFSF15
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GPI
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ASF1B
TERC
USP16
SLC9A9
NLRP5
SYN1
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CDKN2B-AS1
POLG
TRAF3
CXCR2
RPS4X
SND1
F9
IFNG-AS1
IRS1
RNASE2
MFN2
BCAP31
IDO2
GNA11
STAT4
FSIP1
IGFALS
DUOX2
LRRK2
ARHGEF2
LIF
CASP8

TAP1
CFH
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MIR23A
ACOT7
FCRL3
IKZF3
EHMT2
QKI
KDM6A
TRNL1
WNT3
NCAM1
ITGA1
LAG3
IL5
CLSTN2
HACE1
MOG
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GPR151
ERAP1
CDX2
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JAG1
GCA
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IRF6
ALOX15
CHGA
LRRK2-DT

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EPHA4
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CCL7
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CXCL11
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ANTXR2
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ABCB1
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AHR
MYT1
VSIR
TRAT1
ACO2
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YWHAZ
KLKB1
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ARMH1
KLRC1
CCL27
HP
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ASAP2
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SSRP1
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ETFA
WT1
AHRR
LCN1
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CHAF1A
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TXNRD2
SERPINB2
MAPK14
PLA2G6
TNFRSF4

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OAS1
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DCTN1
SIRT2
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PRPF6
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IL23A
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P2RX5
GLDN
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ATP2B2
IL1A

CDR3
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RFX1
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CCL20
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ATN1
GLI1
SPP1
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XIAP
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COX1
IFNGR2
MCCD1
IFNAR1
H3P13
PTGS2
TALDO1
BMP7
ERVK-32
OSM
B2M

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CTNNB1
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GAD2

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ADRB2
CPB1
PRSS3
KAT5
SMAD4
DHCR7
CSMD1
NXF1
PSMB8
SNORA38
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MAS1
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SNHG28
OPN1MW3
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GRIA3
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BIRC2
SOCS3
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GOSR1
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SGCG
JAZF1
WWOX
MACIR
TIMP1
TYRO3
HAVCR1
CUX2
CHIT1
RNF5
MMEL1
ADRM1
GATD3A
KCNIP1
MAVS
TNFRSF13C
AIF1
ERVW-2

HT
GAL
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SKIV2L
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ATF4
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CCL2
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PRNP
AGA
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SHMT1
MMP1
AGAP2
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ADA
MAZ
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POU5F1P3
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ERVW-1
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NLRX1
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ARHGEF5
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TOR1A
MIR384

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UBASH3A
DUOX1
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DGCR8

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RTN4
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PHRF1
CTR9
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SYT1
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TUBA4A
HMOX1
CD1B
MMP28
FCGR2A
GRM3
GLO1
MC4R
PRDX3
HNRNPA1P68
TRPM7
INS
EDIL3
MIR524
TYROBP
GPR65
ND2

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HOTAIR
CLEC4D
PECAM1
MS4A1
EBI3
PML
LALBA
FCGRT
CCR8
LRRC32
MMP3
CRHR1
EIF2B4
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LPAR3
TRAF6
CCL18
MIR145
CCR6
AXL
PPARA
COL11A2
CNR2
PLXNA2
CBLIF
KRIT1
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ANGPTL4
CRYGD

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BST2
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CSTF2
MIR34A
FOXC2
RPS6
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ERVK-6
INPP4B
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ADCYAP1
GSTM1
IFNA17
SH3BP2
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PSG2

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GBE1
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SOD1
MIR23B
SPNS2

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ERBB3
CREB1
RMDN1
TLR7
IGFBP1
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SLC1A4
DDIT3
SNORD27
CEACAM5
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POLDIP2
LGALS3
RAB3GAP2
CDH1
MOK
IQGAP1
IFNG
FOS
HSPA14
KCNA3
TGM6
SORCS3
HSPA5

RETN
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IL4
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SELPLG
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MASP2
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H6PD
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PRB1
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GRM5
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COL2A1
RPA1
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IFI30

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MICB
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CA2
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LRP2
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OXER1
ROBO3
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APOC2
IGHG3
GGCT
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CEACAM7
PTPRN
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WFDC2

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IFNLR1
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CDKN1C
POTEM
SYBU
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COL17A1
GFAP

CYP17A1
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GPR17
PLG
VCL
TYR
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IL10RA
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MOGAT1
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ACTG2

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BRD2
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MPHOSPH9

CAT
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CPOX
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EIF2B1
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HSPA1B
JAK1
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LY6E
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GSTO1
AK5
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FLOT1
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DLG5
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TNFRSF6B

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DEXI
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PHB
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IFNAR2
HLA-C

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TNFSF14
PRRT2
TSBP1-AS1
HAP1
EPHB2
UBE2D2
ACTG1
CALM1
DGCR2
ZGPAT
ANP32B
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ATXN2L
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DLEU1
ESR2
CISH
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TRBV20OR9-2
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PGPEP1
APOC1
KLRD1
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IL7
RNF6

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	SOX2
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	TOB1
	MIR26A1
	SPHK2
	ZFAT
	LANCL1
	VEGFB
	FGF23
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	CEACAM3
	KLRB1
	PVR
	MIR375
	UBC
	FANCG
	CYP2R1
	S1PR3
	SNCB
	FANCD2
	HMGB1
	S100A9
	CSF2
	ARNT2
	ITPR3
	BIRC3
	RPS6KB1
	MMP9
	METTL1
	LBR
	CCL13
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	DARS2
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	PLXNA3
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PCYT1A
SHBG
SMARCB1
HESX1
NPR1
TFR2
CCHCR1
TNNI3
EBPL
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FGF8
OXTR
KISS1R
ABCC4
ACCS
ILK
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SIM1
GNRH1
PDGFB
THPO
TYRP1
NSMF
ENO2

DDAH2
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FSHR
VWF
BAD
HEXB
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HJV
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MIAT
AIP
PCSK9
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ANGPT1
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SLC2A1
LIMK2
SCLY
GRIN3A
ACSS2
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DKK3
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ANOS1

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DYNLL1
PROKR2
PDE5A
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MCHR2
ABCD1
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CFTR
SRC
KRT7
TWIST2
MSTN
FLRT3
TACR3
SUFU
MATN2
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CDH23
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LOX
COA8
PTGFRN
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DRAIC
CCND2
ADRB3
SPRY4
PITX3
KLK1
SLC5A2
FSHMD1A

PKD2L1
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STIN2-VNTR
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LIMK1
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FLT4
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		CXCR4
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		MIR20A
		MYO9B
		MMP7
		NOS2
		ZEB1
		ERG
		SOD2
		HLA-DRB4
		NR4A2
		CXCL13
		SORL1
		SYN3
		LEP
		DHRS11
		CCL22
		PTPN22
		BRCA1
		CYP2D6
		CRYGC
		PRKCB
		A2M
		C1QTNF3
		FOXP3
		CCL19
		CD38
		TNFRSF9
		APOE
		HSPD1
		F2RL1
		MZB1
		P2RX3

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SLC9A9
POLG
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MFN2
FSIP1
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IL6R
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FANCC
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GFI1
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POU5F1P3

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CXCL1
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HIF1A

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INSRR
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SERPING1
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KL
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FYN
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ITGB1
PARK7

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TBATA
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CHGB
CTR9
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HMOX1
GLO1
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TRPM7
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EBI3
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GPBAR1
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COX2
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CRK
HSPA1B

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ASAP2

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ACKR1
CLECL1
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	MOGAT1
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CDC25B
BMP3

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ACSM3
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SRRM4
SMYD3

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TRAF1

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MAP2
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OXER1
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PADI2
NFATC2
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CCL21
ADAMTS13
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SERPINE1
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OPN1MW2
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MIR17

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IFNGR1
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CLEC16A
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CD300LF
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JAK1
LY6E
CXCL5
S1PR5
GSTO1
FLOT1
MMP25
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CANX
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ABCA7
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SCN8A
FAM107A
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LILRA3

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KIF21B

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NRG1
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ZGPAT
DGCR2
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ARHGEF10
GAD1
DLEU1
CISH
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NDFIP1

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	TRIB2
	CD40LG
	GHSR
	STK17B
	ICAM5
	PGPEP1
	KLRD1
	IL7
	RNF6
	VAV1
	GRIA2
	APP
	TOB1
	LANCL1
	FGF23
	CEACAM3
	MIR375
	UBC
	PSMB9
	SNCB
	CSF2
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	ARNT2
	ITPR3
	RPS6KB1
	BIRC3
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CACNA2D1
RGN
CCNB1
HRG
PROP1
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SYCP3
PAPOLA
MSH3
RNF14
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DMC1
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LHB
CMPK2
HERC2
GGT2
CDC25B
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CDC14A
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ACSBG2
ZMYND15
PDIA3
CLC
TXNDC8
IPW
RSS
GNAS
KATNB1
GFPT2

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MAOA
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ALDH2
RNF4
SRSF6
MRAP
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RIN2
CDK1
PRY
PTK2
DMRT3
MIR34B
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TPCN1
HESX1
SCP2
IFT140
RACGAP1
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SLC22A6
PRPS2
THRB
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RSPH4A
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CYP1A1
PHF7
PRSS21
GNRHR
FGF8

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GNAO1
RPL10
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AURKB
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NDUFA13
CYP19A1
MTHFD1

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CDY2A
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PGAM1
KLHL10
BMP8A
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LRRC56
CFAP43
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ENO4
HSFY2
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CNOT7
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PRSS37
PRKDC
MEIOB
CLDN10

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CSNK2A2
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HRAS
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TEKT2
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LAMA1
THEG
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PIH1D3
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RSPH3
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FSHB
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STK24
CFAP70
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MDM2
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LHX4
IZUMO1
POLL
SLC10A6
LINC02277
CHD2
CFAP69
MIRLET7B
EMC10

POLR2F
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IZUMO3
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FANCM
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CLEC7A
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QRICH2
TNP2
HS6ST1
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ADGRG2
PROKR2
BPY2C
TEKT4
ELOVL2
PLCZ1
DNAAF2
COMP
GOLGA2
STAR
PICSAR
GGTLC5P
BRDT
PATL2
MC2R
VCY
PIWIL2
HSPE1
CMTM4
RBM5
TSPYL1
MOBP
PATE1
TTC29

GAS2L2
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CEP19
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FGF5
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FAM50B
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CLCN3
CDK2
PGR
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OAZ3
NPAS2-AS1
PCBD1
AZIN1
TACR3
RNPS1
VPS54
PANK2
STS
CABYR
GLI2
EIF1AY
SPAG1
ALKBH5
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SPAG8
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MARCKSL1
TTY13
SOHLH1
ATXN1
TGM4
FAT1
MEI1
RABL2B

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ABCB6
HOOK1
SPRY4
SAGE1
INHA
SHOX
ABCC1
PRM2
MARCO
TDRD7
NSUN7
CFAP300
RNF8
SLCO5A1
DAZ2
DMWD
AGBL5
ZMPSTE24
HAUS7
TGFB1I1
RPL10L
DDX25
DNAL1
HTR2A
MLH1
VAMP7
TNP1
KISS1
SLC25A31
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GSTM2
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REG3A
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TEX11
AZF1
DNAI2
ZNF214

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SERPINA5
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MIR509-1
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SI
TEX15
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WLS
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XRCC2
CHPT1
RPTOR
ERBB4
DMRT1
CCNA1
WASL
SEMG1
PLAU
MAST2
TAF4B
AGFG1
SETD2
WEE2
ESX1
PELP1
SLC9A5
L3MBTL2
PKD1
JAM3
CHSY1
PRDX6
ABL2
CLDN4

DEFB1
STX2
YBX2
ODF1
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SNRNP70
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SPATA17
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TAF7L
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STEAP3
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PRY2
DYNLT1
SLC26A3
TAS1R3
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MIR10A
FANCL
LIPE
MKRN3-AS1
RPS3
TUBA3C

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CLDN2
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DMPK
SYCP1
SPEM1
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ANK2
BLM
GGPS1
SOX3
VIM
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HOXA10
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ARMC4
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TYSND1

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AFM
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DAZ1
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TSPY3
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GOPC
PLK4
UBE2B
PICK1
BPY2
FANCF
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DDX4
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AKAP4
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CTCF
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ZP3
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GOLGA2P3Y

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DPF3
ODF2
RFWD3
SEMA5B
FUT1
CARM1
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GADD45G
DNMT3L
MARCKS
LRP6
LHCGR
PTPRD
CLCA4
DRC1
H2BW1
DUSP6
SPATA25
MAPK6
MSH5
IGF2
NUCB2
FAM47C
DNMT1
PIWIL4
SOX5
OTX2
MIR486-1
BRIP1
CFI
SLX4
PALB2

ANOS1
CBL
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GTF2A1L
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IL1R2
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DAZL
NECTIN3
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PLAG1
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SEPTIN12
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PDHA2
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FRK
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LRWD1
NPR2
PROM1
MIR10B
CFAP410
TUSC1
CFTR
GSTM3

HSF1
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USF1
ACP3
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B4GALT7
BSCL2
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MKRN3
HSFY1
SMN1
GGNBP2
MLH3
MAGEL2
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CDH23
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ETV5
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ACSL6
CETN2
PGAM4
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PDZK1
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FGF1
IL6R
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FANCC
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IL23R

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CASP1
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XIAP
IFNAR1

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OLR1
NCF1
AGER
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MICA
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NT5E
NPY
IL18
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GPX4
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HOTAIRM1
ITGB2
KAT5
PSMB8
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MAS1
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HRES1
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SYNE1
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APLN

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CXCL10
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TYR
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ARG2
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TSLP
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PLP1
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MBL2
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TRPM8
MECP2
MAP3K5
PDLIM7
ALKBH1
NOS1

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AQP4

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CNR1
TRAT1
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SERPINB2
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FAM167A
CD226

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SMAD4
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PER3
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PTPA
MST1
JAZF1
HAVCR1
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SHMT1
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POU5F1P3
TLR3
IL6

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CXCR5
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EDIL3
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CLDN5
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TGFB3
INPP4B
BMPR2
AHSA1
GPR183
MYRF

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SMC2
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LATS2
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CDK9
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GLRX3
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TTR
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PGRMC1
UVRAG
PTPRN2
MAOB
ITGA2B

PSAP
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RANBP3L
CYP1A2
LYN
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PCDH11Y
ELK1
HGD
SERPINE2
NME2
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CDO1
MAPK6
DNASE2
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MSH5
TCN1
SLC5A6
KCNH8
SDCBP
BLACAT1
NUCB2
ICAM4
FOXO4
PLAAT3
ID4
SOX5
PRAMENP
OTX2
SLC5A5
AKAP1
NFIX
CLEC14A
GAL3ST2
REG4

SLX4
DERPC
PALB2
RNASE3
HELT
ANOS1
CD5L
COL4A4
TPP1
ALL1
HNRNPF
STIL
OPRPN
ENPP5
UBE2C
CYP3A7
HNP1
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AXIN2
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TAF1
NDST2
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IL1R2
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DCUN1D1
H4C6
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LATS1
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SLC7A9
SMC1B

SPOCK2
LEMD1
BRCA3
AZGP1
FGF2
PEX3
PAMR1
MED1
FLACC1
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EPHA6
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GUCY1B1
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TRAF4
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RRM2
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COMMD10
MRE11
COG5
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ARAP2
NR5A2
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FEN1
KLK5
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SF3B1
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EFNB2
IPO7
ALDH1A1
DGAT2
NOB1
TSG101
ATRIP
PCAP
HELLS
DNAH9
TNS4
FANCI
PIGN
TTF1
SHROOM3
CCL28
IRX2
RAD54L
PLAGL2
SNRPN
MSI2
MRTFA
ABCD1
PLEC
HPLH1
ANK1
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IL22RA1
CASZ1
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PSMB5
APCS
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TXNDC2
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OR51E1
FRK
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CDK5R1
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PAX8
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DBN1
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FEZF2
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LRRC59
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SSX2B
C1QB
TXNDC9
KHSRP
TRAC
FBL
PANX2
CYP11B1
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SOX2-OT
ANGPTL6
TUSC1

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KCNA5
FLRT2
WRN
ST14
RIT1
PKN1
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RHBDF2
TSPY10
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ERF
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MLLT10
PHF14
TDGF1
S100A10
ERCC6
EIF2AK4
THOC6
RPL13
TMX1
VIS1
PTPRO
SUPT20H
MEAF6

CYREN
MAP9
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ZDHHC14
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FAM83F
IFI35
BSCL2
CFHR2
PCDH9
H3P47
MKRN3
ITFG1
HSFY1
AZIN2
MIRLET7D
ZNF185
DNASE1L2
SUFU
NEUROG1
SOCS2
NKAIN2
XKR6
MIR324
CYP2C8
WDR5
RARG
PKN2-AS1
ACVR1B
RBMS3
PSMD1
MIR107
ROM1
SSX4B
SFTPA2
MOS

MLH3
NOX1
MIR562
MAGEL2
COPB1
SLC29A2
MATN2
SRSF9
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DHDH
COQ8B
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GNRHR2
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INSR
TGFB2
GLIPR1
CIZ1
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CT45A1
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GBAP1
CACYPB
ELF5
SETD7
HOXB9
ITGA9
PRDM16-DT
VANGL1
ACSL6
ULK2
RADIL
GPANK1
HIPK2
MAPK15
DAP
SHARPIN
ADIPOR2
PCDHA8
GBA3
EIF4A2
CIRBP
FRZB
SHROOM2
RPGR
RRM2B
COL6A3
PABPC1
LINC00518
CATSPER2
TMEFF1

MIR130B
CLDN8
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HSD17B12
ZFH3
SCRIB
H1-0
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CAMKK2
NES
FZD6
EGLN3
PITX3
ERCC6L
GPX3
MUC5AC
SHISA2
TBCK
HPX
KLK1
RNF130
MLXIPL
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PNO1
TMX2-CTNND1
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HPS5
POP5
KRT5
ST13
SIX1
PTP4A1
FSHMD1A
CDH12
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QRSL1
MIR345
MARCF8
UBR2

GTF2IRD1
FCRLA
STIN2-VNTR
STC2
MIR217
MT1H
COL6A1
PSMA8
FOXD1
OAZ1
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PRSS8
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GPRC5B
FRMD7
CBR3-AS1
TCF7
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SAMD9
HSD11B1
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HDGF
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SUMO4
ARID4B
AKR1C3
SETX
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SPARC
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PAF1
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DERL1