

Supplementary Table S2

A total of 2,606 genes related to Atherosclerosis

LDLR
AGER
AGT
SIRT1
HP
PPARG
CYP27A1
CETP
CRP
CYBA
ABCA1
ESR1
ALOX5
ALOX15
APOA4
ICAM1
IFNG
APOE
IL6
LPA
MMP1
NOS3
SERPINE1
PLA2G2A
PON1
PTGS2
CCL2
STAT3
TLR4
TNF
VCAM1
VEGFA
CAV1
ADIPOQ
GSTM1
ALOX5AP
CNR2
PLAT
SOCS3
AHR
ABCG5

SOD1
PARP1
NOS2
NR1H4
IGF2
LTA4H
CCL4
SOD2
TRIM28
HRH1
HSPA1B
FASLG
NECTIN2
BCL3
CELA2A
CCL3
TRPV1
HMGB1
IL18
MMP2
NPC1
SELP
TTPA
CD36
CD40
CD40LG
CLU
F2
CASP3
CASR
FAS
LCAT
LMNA
LDLRAP1
ENPP1
ENG
FOS
WRN
SLC17A4
CDKN2B-AS1
ZGLP1
NR1H3
CDKN2A

KLF2
CFDP1
AGPAT2
AHSA1
UTS2
CHI3L1
ADAMTS7
NLRP3
CCR5
COL3A1
CRK
MAPK14
CST3
CX3CR1
ACE
DECR1
DNMT1
DPP4
AGTR1
AGXT
EDN1
EGR1
AHSG
ELN
AKT1
ALB
F3
FABP4
SAMMD4A
FN1
SMUG1
GABPA
PCSK9
RNF19A
POLDIP2
FGF21
GCG
BSCL2
GGCX
IL37
ANGPTL3
GLP1R
ANGPT1

CAVIN1
ANGPT2
HGD
HIF1A
HMOX1
HSPD1
APOA1
APOA2
APOB
APOC3
IGF1
APOH
IL1A
IL1B
CXCL8
IL10
IL17A
ABCC6
LEP
LGALS3
LPL
LRP1
MIR126
MIR155
MIR21
MIR33A
MBL2
MEFV
MMP3
MMP9
MMP12
MPO
MTHFR
ATM
NFE2L2
NPY
NOTCH3
OLR1
TNFRSF11B
NOX4
PAPPA
FOXP3
ANGPTL4

HSPA14
PECAM1
PIK3CA
PIK3CB
PIK3CD
PIK3CG
PLA2G1B
PLG
PLTP
PON2
PPARA
PPIA
TET2
PINX1
CHDH
PRKAA1
PRKAA2
PRKAB1
APOM
MAPK1
RETN
PTX3
CXCL16
MOK
ACE2
REN
SORT1
SAA1
CX3CL1
CXCL12
SELE
SLC5A2
SPP1
SREBF2
TGFB1
TGFB3
THBS1
TLR2
TM7SF2
TP53
TNFSF4
CCR2
TXN

UCP2
VPS51
VWF
ALMS1
CXCR4
CAD
PLA2G7
AIMP2
EHMT1
LPAL2
FGF23
ANGPTL6
PLA2G10
ANTXR1
BANF1
NR1H2
IL33
XPR1
CD14
KLF4
KL
LIPG
GRAP2
SCARB1
CD44
ABCG1
CXCR6
MTCO2P12
APOA5
CTSS
EDNRA
ESR2
ALDH2
GJA4
GPR162
ANPEP
TNC
TNFRSF9
INSR
MALAT1
MIR145
MIR221
COX2

MYD88
SOST
MAPK3
HAMP
SLC2A1
BSG
APOL1
CCN2
PADI4
MTOR
HMGCR
IL4
ITGAX
ACAT1
LCN2
CIMT
LTA
MIR146A
MIR223
IL23A
PON3
PPARD
ACTB
S100A12
CCL5
ADAM17
USF1
WNT5A
YWHAZ
CASP1
CD68
ABCB6
NAMPT
ADRA2B
PLB1
SGMS2
FCGR3A
FGF2
FOXO1
AKR1B1
COPD
PTPN22
ACACA

NR4A1
HSPB1
HSPB2
APRT
KDR
MIR27A
MFAP1
NR3C2
ACKR3
BCL2
RENBP
ROS1
SFTPD
SOAT1
STAT1
TCF7L2
TSPO
BECN1
HSPB3
CD34
GDF15
BMS1
PGR-AS1
HPSE
CSF2
VCAN
ADRA1A
F2RL1
FOXO3
GPR42
GSTT1
HGF
HSD11B1
HSPA4
IFNA1
IFNA13
IL2RA
INS
ITGB2
JAK2
LIPC
MMP13
P2RY2

F11R
PDE4D
TREM1
LGMN
PTH
RARRES2
GAS5
SAA2
BGLAP
BGN
SELPLG
SSTR4
BRS3
TFPI
TIMP1
TRAF6
FTO
TFEB
TFPI2
CAMP
CAT
PLPP3
TNFSF10
APLN
SQSTM1
LPAR2
CLOCK
HDAC9
CDKN2B
CHIT1
CCR7
CTNNB1
CYBB
ECE1
EGFR
EPRS1
EZH2
F2R
FCGR3B
MMRN1
FMO3
SIRT3
ALOX15B

GH1
TOR2A
GNB3
ABO
GPX1
GRN
CXCL1
HSPG2
C1QTNF9
IGF1R
APP
ISG20
KNG1
ARG1
MIRLET7G
MIR122
MIR217
MIR29A
MIR34A
MGP
MIF
MMP8
NOTCH1
NT5E
P2RX7
ADIPOR1
TNFRSF12A
PF4
PGF
TUG1
MAPK8
MYDGF
PTEN
S100A8
SCD
CCL11
ABCG8
SREBF1
TERT
THBD
TNFRSF1A
VLDLR
DHX40

PDGFD
PLA2G6
AOC3
CD1D
SLC33A1
IL32
NTN1
LPCAT3
KHDRBS1
CES1
TNFSF13B
PPARGC1A
CHRM3
PLIN2
LTB4R
COMP
ADM
CP
KLF14
CTH
IL23R
CYP2C9
APLNR
S1PR1
AIF1
ELANE
ELAVL2
EPHB2
EPHX2
F10
FCGR2A
PHACTR1
DKK1
FLNA
FLT1
FPR2
NUP62
IL27
GAS6
GCH1
GHSR
GJA1
SGSM3

OR10A4
GTF2H1
IL19
CFH
HFE
CCN1
IL1RN
IL6ST
IL9
AQP1
IL13
IDO1
IRAK1
LOX
LRP6
ARNTL
MIR17
MIR19B1
MIR210
MIR24-1
MIR30C1
MIR30C2
MAP3K5
MFGE8
MMP14
MSR1
MTTP
RNR2
ACLY
NFKB1
NOS1
P4HB
FURIN
DCTN4
TLR7
SIRT6
GHRL
PDZK1
SERPINF1
PKM
PLAU
IL17D
ANGPTL8

PTGIR
PTGS1
TRIB3
RBP4
RYR3
S100A9
NOD2
SHBG
IL25
BMP2
SLC9A1
SMPD1
MIR590
TCF21
TIMP3
TNFRSF4
UCP1
VIM
VTN
CNBP
DDR1
VKORC1
ADIPOR2
SOCS1
IRS2
TNFSF12
DNER
CD163
MYOCD
MAP4K4
ADAMTS4
ENTPD1
CD47
CD59
LINC01672
ADAM8
ADAM10
CBSL
TP53COR1
YAP1
APOA1-AS
MERTK
SLC35A1

CST12P
OGA
ADAMTS13
CAPN10
NISCH
ADD1
CTSD
CTSK
GPBAR1
CXADR
CYP2B6
DCN
HBEGF
DUSP1
EGF
EPHA2
ELK1
EVPL
F5
FABP5
ACSL1
PTK2B
FBN1
KIF6
FGF13
SCAP
ANGPTL2
FSHMD1A
GC
GIP
NOX1
HPGDS
GPI
NEAT1
SETD2
GSK3B
RMC1
ANXA1
HABP2
SERPIND1
ANXA5
HLA-C
AOC2

APCS
HSPA5
HSP90AA1
HCAR2
APOBEC1
ID3
IKBKB
IL15
IRF1
IRF6
AR
ITGA2B
ITGB3
KIT
LEPR
LIPA
MIR10A
MIR143
MIR144
MIR19A
MIR20A
MIR212
MIR216A
MIR222
MIR98
TNFSF12-TNFSF13
MAOA
MAS1
MAZ
MRC1
MIAT
MT2A
COX1
MYC
MYLK
NPPB
NPPC
MIR377
PRDX1
PIN1
DYM
CASZ1
SLC52A1

MEG3
BATF3
MAP2K1
PROS1
B2M
PNPLA2
PTGDS
MIR497
NCEH1
SEMA6A
JCAD
PTPN1
TRPV4
ROCK1
S100B
CCL22
SFRP5
BMP4
SORL1
STAT4
SYK
TAGLN
KLF5
BTF3P11
MIR33B
TIE1
TLR5
CRISP2
VDR
XBP1
XDH
CA2
LRP8
SLC25A20
NR4A3
SP6
IL1F10
PSRC1
SEMA7A
TNFSF11
STC2
MBTPS1
CBS

ADAM15
CREG1
ESAM
CD5L
GAL3ST1
NOS1AP
PCLAF
TNFSF15
ADA
HOTAIR
HDAC5
PDCD6IP
HLP
CDH5
TMED7-TICAM2
SNHG16
KLRC4-KLRK1
LINC-ROR
ABI2
TRIM13
PRG4
GDF11
CDKN1A
ZMPSTE24
CDKN1B
NOD1
CEL
TXNIP
POSTN
LARP1BP2
RNU6-392P
RN7SL263P
NFAT5
CTSC
LOC107985770
NOXA1
COPS5
RIPK3
CHGA
CHRNA4
C1QTNF6
CISH
H3P31

TNFRSF13C

CLIC1

CCR3

CMKLR1

EARS2

OSCAR

CNN2

CNP

CNR1

OSCP1

COL4A1

NAXE

COL15A1

COMT

ADK

SLCO6A1

COX8A

CPB2

CR1

ACTRT1

CSF1

CTF1

CTSL

CCDC80

DAB2IP

ADRB2

CYP1A1

CYP1A2

CYP2J2

CYP7A1

CYP19A1

DAB2

DBP

ACAN

DNAH8

DNASE1

JAG1

ATN1

DSC1

DSPP

AGTR2

EDA

LPAR1

PRSS55
EPHA1
EPO
ERG
AKT2
F7
F13A1
FABP2
FBN2
FCGR2B
FGB
FGF1
FGFR1
FGG
ZHX2
KLRK1
PALLD
KDM6B
MPRIIP
PMPCA
ARL6IP1
FOLR2
PLA2G15
ABCA4
GAST
POU2F3
ABCA12
HSPB8
SLC17A5
GREM1
MSTN
GHRHR
GJA5
FOXP1
DKK3
PALD1
INTU
NAAA
GLO1
GOT2
GPER1
RGCC
NR3C1

CXCL2
GUCY1A1
NPC1L1
PADI1
GZMB
HDAC1
NRG1
HMGA1
HNF4A
APC
BIRC3
HSPA1A
GPIHBP1
FFAR4
IRF8
NANOS3
IRGM
IGFBP1
IGFBP3
IGFBP7
TICAM2
IL5
IL6R
CXCR2
IRF2BP2
CXCL10
INPP5D
IRF5
IRS1
ITGAV
GSK1
NEXN-AS1
MIA3
RHOA
CCL4L1
C1QL3
RPSA
LGALS3BP
LIF
LPP
LRP2
MIRLET7B
MIR10B

MIR134
MIR142
MIR150
MIR152
MIR181A2
MIR206
ARR3
MIR23B
MIR25
MIR29B1
MIR29B2
MIR30E
MIR99A
MAA
SMAD3
SMAD7
DEFB103A
MC1R
MCAM
FOXO4
MMP7
PLIN5
MIR133B
MIR135B
MIR148B
MSRA
MYH11
NEU1
CCN3
NPPA
NPR3
MIR375
OGG1
OGN
OSM
PCSK6
PAEP
IL20
MBL3P
TMED7
IRAK4
ZC3HC1
PDGFB

PLA2G4A
PLAUR
PLIN1
PLXNA2
TLR9
SOX18
PPBP
SAMD9
ACP3
PRKAR1A
SELENOS
DEFB103B
ACSS2
MAPK7
PROC
PRTN3
PLAAT1
PTAFR
AS3MT
MIR146B
MIR499A
AHRR
RNF213
NGB
RAG1
RARA
RCN2
RELA
NIF3L1
RORA
BCR
RPS19
RXRA
S100A1
CCL18
CCL19
CCL21
CLEC7A
GORASP1
PDIA2
ST3GAL4
WNK1
UCA1

CXADRP1
NCF1
BMP7
SNAI2
SIGLEC1
SPG7
SRI
BRCA1
ST2
STAT6
STK11
SYT1
HNF1A
TFAP2A
NR2F2
TGM2
THBS4
C1QBP
TLR3
TNFRSF1B
C3
TRPC3
MIR652
TTR
TUFM
VCL
XIST
ZFP36
CACNA1C
ELOVL6
NOX5
ADAM33
COL18A1
TAM
CAPN1
CAST
SESN2
LOH19CR1
ARID5B
CASP9
SOAT2
HHIPL1
KISS1R

SPZ1
ACCS
ADTRP
HAVCR2
RGS5
GFM1
TSLP
PDE5A
TNFSF14
TNFSF9
RIPK2
HDAC3
LDB2
TBX18
NEXN
AIMP1
CD28
ORMDL3
AIM2
IL27RA
ROCK2
ADAMTS3
CCL4L2
NCOR1
CD69
PIEZO1
MAGI2
WDR1
NR1I3
NAT2
AKT3
TLX1NB
MIR876
C20orf181
HDAC6
HOXA-AS3
SH2B3
CASC11
DEFB4B
MIR664A
AAA1
PARP3
MIR3188

OCLN
MICA
MICOS10-NBL1
P2RX5-TAX1BP3
DNM1L
MIR4463
IL18BP
HIF1A-AS1
CDH13
ZNF263
EBI3
ATP6AP2
CDK2
SORBS3
PRMT3
PSME3
CDK5
MPZL2
KLRG1
RABEPK
CDK9
SPRY1
FSTL3
GATD3B
LOC102724197
STUB1
CDKN1C
TCIRG1
LANCL1
TLR6
CDR1-AS
MICU1
DLC1
PEMT
SPON2
LYPLA1
C1D
MIR222HG
VAV3
FST
CAP1
CREB3
STK25

CEBPA
SEMA4D
CEBPB
KAT5
ATG7
ZNRD2
PROCR
PRDX4
HTATIP2
CXCL13
TXNRD2
PDLIM5
HEXIM1
CAMKK2
SIRT1-AS
CTCF
DCTN6
TRAF3IP2
NES
MTHFD2
CYSLTR1
CCR9
FRS2
LILRB1
USP20
GSC-DT
MALT1
BRD8
MASCRNA
EBNA1BP2
LILRB4
ABHD2
KERA
ESM1
ADAMTS5
CIT
WDHD1
SLC2A6
EGLN3
SNF8
IL17F
LINC02605
LYST

COPE
ACOT7
MGLL
CHRNA5
ADCY8
LNCRNA-ATB
CYGB
OSBPL1A
OSBPL8
C1QTNF1
C1QTNF5
ADCY9
H3P23
H3P28
H3P10
ADCYAP1
TADA1
CLCN2
PRAP1
SERPINA3
CMA1
H4-16
TDRD9
CCR6
CCR8
SLC5A10
TNFAIP8L1
PODN
COL1A2
ADH5
TMEM18
KCNH8
CORT
CLDN7
CPOX
CPT2
CREB1
ATF2
MAGEC3
MAGEE2
GPR119
CRMP1
ZBTB46

CRY1
TRPM6
SIRPA
CRYGD
CSF1R
CSF2RB
CSF3
SERPINA12
PWAR1
NRG4
IL34
NKX2-5
CTBS
PDIK1L
BPIFB4
CTNND1
CTPS1
CTSB
CTSG
BTLA
CYLD
AMOT
ADRB3
CYP2C19
CYP2C8
CYP2D6
CYP2E1
CYP3A4
LINC00599
CYP3A5
CYP26A1
CYP27B1
AP2A1
DAG1
BRINP1
MARCHF10
DBN1
PAQR7
GADD45A
DDIT3
DEFB4A
ADAMTS18
DHCR7

DHCR24
NQO1
DIO2
DLD
DMD
DMRT1
DNMT3B
AGRP
RCAN1
DUSP5
EBF1
TYMP
NR0B1
EDN3
AHCY
EDNRB
EEF1B2P2
EFNB1
PAOX
MLKL
ELAVL1
A2M
TET3
MARK2
EMP1
EPAS1
EREG
ERN1
ETS1
ALCAM
ABCD1
F11
F12
FABP3
FAP
FAT1
UNC5B
HYLS1
FBLN2
MPEG1
ZEB1-AS1
LINC00305
FDPS

FGA
FGF12
FGFR4
FHL2
VEGFD
CARD8
SIRT2
P2RX2
MYH15
FOXM1
STAB1
MLC1
NBEAL2
FLT4
PACS2
MCF2L
FMOD
SASH1
KCNH4
TRAM1
CES3
SRRM2
CLCF1
NNT
MMD
PIK3R5
SLC16A8
FOSB
ATP6V0A2
DDAH2
DDAH1
CARHSP1
PATZ1
CLEC5A
DAPK2
BACE1
EID1
ALOX12
PANX1
ZNF318
ALPL
NR5A2
FTH1

FUT3
FUT7
FNDC5
FUT8
ACKR1
FYN
UTS2B
GCA
LMOD1
BAMBI
PART1
POT1
SGMS1
CLIC4
WWTR1
PNKD
ADGRA2
CHMP2B
TMEM98
APPL1
ARHGEF26
TES
LRRC32
GATA2
CLEC4E
GATA4
FBXO8
FBXO3
PLA2G2D
GCGR
GCK
GCKR
NR6A1
PCOLCE2
GDF2
GFER
HAVCR1
AMH
RNU1-1
HBP1
FETUB
SLC39A1
SIGLEC9

IL17B
PDCD4
GCLM
RBMS3
BHLHE22
GLI2
GLRX
GOLGB1
GP1BA
H19
CXCR3
CLEC9A
HCCAT5
LPAR4
SCARA5
GPR39
FFAR1
GPX4
IGLV2-18
IGKV2D-29
KLF15
ABR
PYCARD
BRD7
CD274
GSR
GSTM2
GTF3A
GTS
ICOS
HILPDA
OSGIN1
GYPC
PSAT1
SLC40A1
ANXA2
HAL
HAS2
HAS3
HCRT
HDC
HDLBP
HLA-A

HLA-B
FOXA3
HNRNPU
HOXA1
HOXB9
HPX
HRH2
APEX1
HES1
HSF1
HSPA2
XIAP
S100A7A
CLEC4D
MMS
ENPP7
NANOS2
BRINP3
ARMH1
ID1
LINC00299
ARSI
ACER2
APOC1
IDH2
GOLGA6A
IFI27
FCRL6
APOC2
IGF2R
IGFBP5
IGHE
IGHG3
KLK3
IGSF1
IL2
IL7
IL11
ILK
IRF2
IRF3
ITGA2
ITGA5

ITGAD
ITGAE
ITGAL
ITGAM
ITGB4
ITGB5
ITIH4
ITPR1
ITPR2
ITPR3
IVD
JUN
JUNB
JUND
JUP
ENHO
KCNJ11
KCNMB1
KISS1
KLK1
KPNA3
KPNA4
TBPL2
C1QTNF12
LAD1
LAG3
LAIR1
LBP
LBR
LDHA
LECT2
LIPE
FADS1
SNX19
LMNB1
HACD4
LRP5
LSAMP
LINC01194
LTB
LUM
CD180
MIR100

LYZ
MIR107
MIR125A
MIR127
MIR136
MIR140
MIR148A
MIR149
MIR15A
MIR18A
MIR182
MIR183
MIR185
MIR188
MIR192
MIR199A1
MIR199A2
MIR205
MIR214
MIR22
MIR224
MIR23A
MIR27B
MIR28
MIR296
MIR29C
MIR302A
MIR17HG
SMAD1
ARSB
STS
ARSL
MC4R
MCL1
MCM3
CD46
SMCP
MDK
MDM2
MECP2
MEF2A
MEF2C
CD99

CXCL9
MAP3K10
KMT2A
MMP10
MMP11
MMP17
MNDA
ABCC1
MIR328
MIR330
MIR335
MIR338
MIR342
MIR370
ASS1
MST1
MST1R
MT1F
MTAP
CYTB
RNR1
MTRR
TRNL1
TRNL2
MUC1
MYH9
NAGLU
ATF4
NBL1
NBN
NCF2
NDUFA2
NDUFAB1
ATIC
NEDD4
ATOH1
ATOX1
NF1
NFIA
NFE2
NFKB2
NFKBIA
NGFR

NINJ2
NME2
NNMT
NOP2
NOTCH2
PNP
SLC11A2
NRF1
ATP2B1
YBX1
ROR2
DDR2
MIR378A
OPRK1
SLC22A18
OSBP
P2RX1
P2RX3
P2RX4
P2RX5
P2RY1
PEBP1
PLA2G3
PAH
PAK1
IL22
CNTN3
TRAT1
PC
PCDH8
MLXIPL
PCNA
INSIG2
EGFL7
PLEKHO1
PCOLCE
PCOS1
GP6
PCP4
PCSK1
MZB1
PCSK5
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SERPINF2
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ACP5
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TOLLIP
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AKR1B10
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CCAR2
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SDC1
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PRDM1
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SKP2
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SLC22A1
SLPI
SMARCA4
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SMN2
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SNTB2
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SOS1
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SPARC

SPI1
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SSRP1
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STIM1
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ABCC8
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MIR647
ZEB1
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THY1
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TNNT2
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TPI1
TPM2

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TRPC6
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TYROBP
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VAV1
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ARHGEF5

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GATD3A
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H4C12
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H4C3
H4C8
H4C2
H4C5
H4C13
H4C14
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TAF3
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LCOR
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RETNLB

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CCN5
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ALKBH1
VNN1
SPHK1
SGPL1
KRIT1
TIMELESS
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WNT3A
TRPA1
SELENBP1
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DPP9

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WDR20
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MAGI1
PDLIM7
COPB2
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MUC16
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TRAF4

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TRIM14
ELMO1
MFN2
MAFB
DLEC1
HS3ST1
MVP
FGF19
CDC42
RCE1
CDH1
KCNE2
SCO2
GSTP1
MRAS
DUOX1
HDL3
BCAR1
DUOX2
AXL
BMPR1B
MAP1LC3B
MIR638
TLN1
TYRO3
MARCO
PSMG1
SLC5A7
DUSP2
VASH1
CYP11B2

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GSTO2
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ARSA
HOXC6
ACAA1
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UCP3
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PLA2G5
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KCNQ1
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SLC4A1
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GDE1
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HOMER3
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IMPA1
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XYLT1

XYLT2
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FOXE3
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MPI
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PCYT1A
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MFAP5
CERNA3

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FLAD1
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SIRT4
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CDH2

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COX10-AS1
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CMTM5
ACKR2
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FUNDC1
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CSN2
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DIAPH1
EEF2
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EXTL3
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FCGR1B
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FEN1
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ATF6
FOXC1
KDM1A
MON2
MCF2L2
GPD1L

ABRAXAS2
FLOT2
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PHLPP1
DICER1
ZFPM2
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GPLD1
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GRK4
GRIK4
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HBA2
EHD3
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HLA-G
HMGB2
ACACB
HSPA8
HTR2A

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IFNGR2
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MYBPC3
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ADA2
PF4V1
SERPINE2
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PKP2
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BCO1
POR
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DDIT4
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NADSYN1
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YOD1
CAMK2N1

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SLC22A8
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OPN4
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HAND2
TBPL1
GMFG
CHD1L
KLK4
PRORP
HDAC4
KEAP1
C1QA

MMACHC
LPIN1
LCT
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GLB1
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THSD1
CNMD
DDHD1