

A Computational Approach inspired by Simulated Annealing to study the Stability of Protein Interaction Networks in Cancer and Neurological Disorders

Data Mining and Knowledge Discovery

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Protein Interaction Network Analysis (PINA) dataset:

HDAC3 HDAC1
S100B MDM2
TAF1 TAF15
PRKCZ GRB14
HSP90AA1 CDC37L1
JUP DSG2
L3MBTL2 MEAF6
COPS6 CUL5
CCDC85B EXOC8
TUBA4A RAB8B
CHD3 ATP1F1
UBE2D2 CHFR
KAT5 POLR3F
BLM SUMO3
RPS27A SPRED1
PRKAR2A RUNX1T1
RPS27A SPRED2
CBL F2RL1
MDM2 UBQLN4
RFC2 PHLDA3
MAGEB4 FTSJ3
PRKACA LIMK1
ARID1A SMARCC2
POLR1A ANP32B
ATXN7 SUPT3H
CLTC GGA3
RARA SRC
RALA RAB8B
HRAS RGL1
PHYH F8
TP53 HSP90AA1
PARK2 UBE2L3
KITLG FLT3LG
RNPS1 STRAP
RCN2 NPTX1
BRD4 GRB2
ASNS PRKAG2
SMARCA4 TAF9

ATXN7 TADA2A
INPP5D DOK1
PTN LUC7L2
GABARAPL2 SAFB2
PIN1 WRNIP1
HSBP1 HSF1
NFKB1 DDX46
IL4 IL13RA2
CAV1 NEU3
DCN COL4A6
GTF2F1 CKLF
DSG1 KLK5
KEAP1 ETF1
RPN2 C20ORF24
OGG1 XPC
PTPN1 STAT5B
CTNNB1 HDAC1
ZNF512B EHMT2
SMAD1 SMAD5
SAFB2 SAFB
NMT2 TP53
HNRNPA1 SUFU
DMWD SCRIB
UBE2D2 RNF125
LMNB1 URB2
SPTLC1 C20ORF24
PIAS2 ESR1
PNKP MYOZ1
BCAR3 ANXA2
TSSC1 KIAA1967
USP7 TRAF6
BAZ1B SUPT16H
GALK1 OTUD4
ITGB2 TLN2
SNRPF SRRM1
GAK AR
TIMM50 IKBKG
RHOQ PRKCI
PLCG1 PTPN11
CDH6 CDH9

HNF4A PABPC4
CDH6 CDH7
TADA2A TADA3
RANBP2 MDM2
NF2 TSC1
NCSTN APH1A
NR2F2 HDAC1
GABARAPL2 KEAP1
APC HNRNPM
PPL COL17A1
RNASEH2A MKNK1
PCNT RBBP7
CTTN HDAC6
TRAF2 TNIK
EIF3D EIF3J
EIF3D EIF3G
TRAF2 APPL1
GBAS GABARAP
RAF1 RAP2A
CST3 CTSL1
SART3 LSM7
HCK ADAM22
PAX3 WWTR1
PABPC4 XRN1
ETS1 MAPK7
PDPK1 IRS1
PTPRF IRS1
CTSG F2RL1
MLH1 CASP3
MAX CLTC
NPHP1 FLNB
CHRM2 GPRASP2
YWHAB GAB2
PIK3C3 MAP1LC3C
TSC22D1 RB1CC1
MED6 MED21
LRP2 MAPK8IP2
TH1L TTLL3
MDM2 RASSF1
APBB1 PQBP1

XRCC6 DHX9
BCL6 HDAC7
RPF1 UBE2D3
RNF144A E2F4
KLC2 MAPK8IP3
PRPF40A PFKL
USP36 WDR3
BTG2 PRMT1
CTNNB1 SOX17
MEF2D USF2
MAD2L1 MAD2L1BP
HNRNPH1 NFKB2
CREBBP JDP2
MPDZ SSTR3
WAS CRKL
ITPR1 STARD13
CRK KHDRBS1
HSP90B1 EIF2AK3
PRTN3 F2R
YWHAG CGNL1
MAPK3 SQSTM1
VTN ITGB6
DEGS1 NUDT21
CRTAP WDR48
ADCY5 GNAI1
APOA2 APOD
GABARAPL2 NEK9
MAVS IRF7
SRMS DMWD
SUV39H1 SBF1
SMAD3 RIT1
PML PPARG
RPS27ANUAK2
HBP1 KIAA1279
ACTB MYOC
CIT DLG4
NCOA2 PRMT1
LAMA4MED31
AR ACTB
APBB1 DIAPH2

HSF1 FKBP4
STAT5A ESR2
SPINT1 FAM46A
ABLIM1 VIM
INHBA TGFBR3
TK2 DRAP1
MAPK1 CDX2
HSP90B1 NR4A1
TSPAN3 CLDN11
MAPK1 FRS2
TCF7L2 TNIK
AIP CSNK2A1
FOS BMPR1A
NR3C1 FYN
ARNTL CLOCK
KCNJ2 DLG2
RAB11B RAB11FIP1
EBP EBPL
INS SYTL4
CCNE1 SMARCA4
CCNE1 SMARCA2
CEP55 VPS37C
CST7 CTSL1
RAD23A CDC37
SEC61A1 AP1S1
ESRRG PNRC1
AQP1 PICK1
ACTA2 TSC1
BAZ1B PHLDA3
EWSR1 NSUN4
PFN1 APBB1IP
AR RAC3
FADD FAF1
LIG4 XRCC4
CTNNB1 PIN1
KLKB1 SERPINA5
GCM1 HDAC5
VPS41 HOOK2
PRMT5 HIST1H4I
TANK USP7

PDXDC1 PHB2
HSPD1 PRKACA
TPST1 CMKLR1
SNW1 NCOA2
ANXA2 STAT6
PRKCA ADRA1B
MYH9 MAP3K3
KRR1 USP44
SMAD3 SMARCC1
SCN4A INADL
MET PTPRK
SUPT3H TP53
RAB27B RPH3A
FN1 IGFBP5
LYN PAK2
CTNNB1 PRPF38B
SNW1 TCEA2
TPST2 SELPLG
HIST1H4I CALCOCO1
MAP3K1 HSPH1
YWHAG CHAF1A
LSM1 LSM4
GFAP SH3YL1
CASP9 CASP8
PPP2R1A RAB7A
PKM2 TRIM63
CCNC MED19
MCC PHB2
PGK1 YWHAZ
MEF2A MAPK14
PSMD10 UCHL5
EIF4B CAMK2D
HSPA4L USF2
ABCD4 PEA15
SFN PKP3
PDS5A BRF2
SRC CDC37
PDE4D PDE4DIP
PTGS2 PSMD1
OFD1 TRRAP

TEK PTPRK
SNAP29STX17
FANCA HES1
LSM1 LSM5
KPNA5 ANP32A
ZNF24 KIF21A
PRKCA HAND2
CDC27 MAD2L1
TIMM50 MAGED1
GLI1 RAI1
ITGB2 RABGAP1
KIN RPA2
ANK1 RHAG
FXR2 RABAC1
PCNA APEX1
PCNA RPA1
YWHAG AKAP13
TIA1 SND1
KIAA1009 CPNE4
NCOR1 HSPA4
SMAD1 PIAS4
RBFOX2 RERE
BRCA1 CTBP1
CSF1R GRB2
TNK2 ITFG2
MCC MRPL32
DAZAP2 UBAC1
GBP1 FNTA
CDK9 MDFIC
PHF2 HIST1H3J
S100A1 PLN
CCNE1 BRCA2
NTRK1 PTPRJ
TP53 HDAC8
GRIA3 GRIP2
FBLN1 HBEGF
TPT1 STEAP3
YWHAG STK4
RAP1A TRAF6
SRSF4 RNPS1

ESR1 FKBP4
SLCO1A2 PDZD3
PPP2R1A MAP3K3
HMGB1HOXD11
BECN1 GOPC
MAGOH RBM8A
MEIS1 HOXA5
DNM2 WIPI2
NTRK1 RASA1
BRD1 VIM
IL2RB SHB
SPIB E2F4
MED14 MED6
ACTB WASF3
ARID1A SMAD3
CD44 VAV2
COL4A6 KLK6
CCNA1 CDT1
TRAF3 TNFRSF14
RNF103 UBE2D2
KDR PLXNA1
STK35 SMURF1
TRIM27UBE2W
LYN PTK2
SOX9 KPNB1
PRSS23 ODF2L
NEB MYPN
ELANE ELN
TSEN54TSEN34
NCF2 GNB1
GDF9 APLP1
GRIK1 PICK1
TGFB1I1 UBQLN4
TNFRSF1B RPS27L
VHL TRIM28
GRK5 CAV1
PTH2R PTH2
SRF ASCC1
ILF3 RRP1
MCC DNM2

GSK3B DCTN2
MAP3K7 SMAD6
CLSTN1 PAX8
CCDC141 DISC1
OPTN CCDC53
HCK RASA1
OPTN RNF11
ERN1 SYVN1
COL1A1 TXN
ASNS DDA1
PAK2 EIF3I
CD2BP2 EIF4A2
CCDC85B ZNF165
GABARAPL2 LRSAM1
NDC80 PLDN
KDM3BZNF512B
E2F3 MYBL2
PRKCA SCTR
EIF3B EIF3A
RFWD2 SIPA1
RAP1A RAPGEF2
USP8 CHMP4C
EIF5A XRN2
NFKB1 GSK3B
NGFR MAG
SYNJ1 SNX9
SNCB CENPT
TGFB1 FBXL12
NAPA STX12
PRKCD MEP1B
MEN1 HDAC2
HGS DCTN2
FANCA CD79A
UNC13B DOC2A
SLC9A3R2 PHLPP2
RPS3 NFKBIA
GDI2 ATG5
SRSF1 CIR1
TPD52L2 IKBKE
COPB2 ILK

ID2 PAX2
BMPR1B OXSR1
ALX1 ALX4
ALDOB BBS7
ELANE ITGAM
PLAT LRP1
TUBB4 MRPL28
PRKCQ ATP13A2
MED8 MED20
PRPF40A HNRNPUL1
RAD23B XPC
ESR1 PIK3R3
CHN2 SUMO2
TCF3 DAXX
SLC25A3 TRADD
EWSR1 NBPF3
YWHAG LCP2
MDFI NPDC1
HMGB1 ETS1
PPP2CAPACS1
POLE3 BAZ1A
GRB2 AKAP6
SCAND1 ZNF165
PTPN13 FADD
SIAH2 HIPK3
RALGDS CNKSR1
SNAI1 GSK3B
PPP2R1A RAB11A
HGS SNX1
MCC GRB2
XPO1 SMURF1
MAP3K8 BMPR2
CCDC88A NDEL1
USP54 CHMP1A
PICK1 LGALS12
EPHB2 SH2D3C
UBE2D2 RSPRY1
RAB4A PIN1
HOMER3 TRPC4
TRAF2 CASP8AP2

NR1H3 TMEM161A
OAT OTUD4
HSD11B2 KAT2B
HSD11B2 KAT2A
ETS1 ARID4B
TCEAL1 FEM1A
DLST FLII
GNAI2 GPSM2
ITGB2 TLN1
SFN RFWD2
CKM PSMD4
PRTN3 CAMP
SLC2A4ARF3
NT5E ACTB
FAM173A LUC7L2
TUBB4 TRAF1
VCL PSME1
CD34 CHST4
TP53 PCP2
MAN1A2 DAND5
SKIL LRP1
CSN2 CDC42
SUPT5H H2AFX
MAP1A PRKAG2
TEAD3 WWTR1
TAPBP COPG2
CDK5R1 CDK5RAP1
PTN CCDC53
EHD1 EHD3
YWHAG CAMSAP1L1
CEBPB DDIT3
CREB1 CCDC6
MAPK1 PTPN7
HMGB1 HOXD3
PSMA4 PSMA5
CAV1 MALL
KRR1 ZBP1
LCK NFKBIA
SFN CYTH2
PRMT2 NCOA1

NCK1 CDC27
IRS1 HDAC2
YWHAQ UCP2
LHB GNAI2
SELL EZR
CCNA2 CDKN1A
EXOSC10 EXOSC6
CHEK1 MSH6
RAF1 IL2RB
PRLR CISH
CCDC130 ZNF165
CLTC TAB2
SMAD2 DCUN1D1
ARF6 XPO5
RNF220 UBE2W
KHDRBS3 RPAP2
ARF6 CACYBP
POU2F2 HMGB2
APIG1 DNER
DEC1 TP53
DLEU1 ABCF3
TUBG1 NDE1
TOPBP1 ATR
SULT1E1 EEF1A1
GATA4 CRIP2
RPA1 RAD51
TPPP GSK3B
EIF4A2 EIF3M
RNASEH2A NFE2L1
UBE2M FAM113A
AGRN GF11B
KIAA0776 UBE2W
LONP1 IFIT5
PYGB ACTN1
DNM2 SHANK1
PRKCG YWHAB
ESR1 IRS1
HSP90AA1 DAP3
PQBP1 TXNL4A
HIRA MEF2D

COG3 COG1
CTBP2 MDM2
SMR3B MUC7
CALR ELF3
GATA4 NKX2-5
LSM1 PTPRC
TSC22D3 HPCAL4
HNRNPUL1 MED31
TUBB4 MAP3K1
HNF4A SMAD4
SMC5 ASF1B
VDAC1 TUBA4A
SMARCA2 SMARCC1
MYF6 CALM2
LSM10 STRAP
ICAM1 UBC
PLXNC1 SEMA7A
GCLC NUMA1
RAD23A EEF1A1
SMARCA2 SMARCD2
EP300 MYST3
RASGRF2 PMVK
EP300 CREBBP
FKBP6 CCNK
TYROBP TREM2
SIX3 NR4A3
SORBS3 DLG5
ATP5A1 AIMP1
NGFR MAPK3
SPTLC1ABCA1
VIM ING5
CDK9 CCT4
CDK9 CCT8
CASP8 MAP3K14
KLB FGF21
DIS3L EXOSC3
ATF2 UTF1
CDC5L CWC15
ERBB3 TNS4
KRT5 ALOX12

PRRX1 GTF2I
SMARCA4 HIST3H3
TCP1 CTTNBP2
MSH3 RPA4
MLL2 KDM6A
DSG1 PKP3
YY1 RYBP
HDAC3 IKZF1
SNAP23SNTG1
TGFB2 STRAP
PLEKHA2 PLEKHA1
SIGIRR TRAF6
NUP214NFX1
PSIP1 SUB1
CDH1 CSNK2A1
SMAD7 HDAC2
HNRNPK H3F3B
NR4A1 ARHGEF10L
FGR ABI1
ACTN1 MYOZ2
TUBG1 GTSE1
UBC DEPDC1B
CGA PTN
CDK14 YWHAB
NID1 LACRT
TCF3 NCL
GRB2 LCP2
POLR1E MYO1A
TRIM27EIF3E
NSF C14ORF1
ITGB5 DOK1
GRIN2D DLG2
PLXNB2 MST1R
CREM CREBBP
TCEA2 SH3GL2
SH3KBP1 TJP2
AURKACDKN2A
IFNGR1JAK1
GNB2L1 SLC6A3
SKIL DHX30

HSPB3 MED31
RHOD SMAD2
NSMAF MAP1LC3B
STOM ATIC
PNP C7ORF64
GRIN2B ERBB2IP
NUP214HDAC9
GRB2 PDIA2
COPS5 CUL5
POLR2C MED9
RAE1 WDR75
SMARCA4 HIF1A
BCL3 SHC1
YWHAG MADD
HUS1 RPA2
EIF2S3 PRKAB1
ZNF768 ZNF277
CDK4 RPRM
PRRC2A CPSF1
HAP1 EIF3E
SRC TRPV4
DFFA TMBIM4
RPA2 MCM5
RPA2 MCM4
CLPX CLPP
ZNF512B BTBD2
PCNT DYNC1LI1
TTN ASF1B
PRKAR1A PRKAR1B
RNF150 UBE2D4
FASTK RBPMS
GABARAPL2 RCN2
OFD1 LUC7L2
CD19 CD81
RASSF4SAV1
E2F1 MGA
PRPF40A ATAD3A
FAM107A CTPS
PNP TFAM
GNAO1 GNAI1

ACTG1 ATF7IP
PRKCE GNA12
EP300 PROX1
BCAR3 AHCY
MAPK3 MAPK8
SDC2 LAMA3
PTPN11 DOK1
CDK1 BRCA1
G3BP1 PIN1
OS9 EGLN1
SLC25A12 JUND
ABCA1 LMO7
MAPK8 CRK
MAPK8 CRKL
EIF3G MPP6
LYL1 DRG1
EMD YTHDC1
NKD2 RNF25
TRAK2 TRAK1
TERF1 WNK1
FZD5 GOPC
COL4A2 BGN
ACTA1 MINPP1
LAMA5 CRKL
MAPK14 ATG9A
IGF1R KL
PTGES3 TRAF6
COL2A1 THBS1
NCOA1 PRMT1
PRKAR1A PRKACA
DLST SCFD1
MED24 RXRA
GABARAPL1 TMEM160
PPP1R12A YWHAZ
GTPBP3 FAM60A
KCNH4 SNCA
TFE3 PPP2CB
SOAT2 ATG5
TNFRSF1B EPPK1
NOS1AP LRP8

MYB COX7B
IER3 PPP2CA
PSMB1 PASK
FBXW7 PPARGC1A
DMD DTNA
PTPN11 INPP5D
RPS27A PJA1
XPO1 IKBKG
HOXC13 NR2E3
NR3C1 EIF4A2
EP300 ESR2
SMAD3 KAT2A
SMAD7 MAP2K6
SMAD3 KAT2B
PRKAR2A AKAP11
HDAC1 DDB2
UBE2E1 MARCH3
KIAA1267 CEP70
EIF4G2 MAPK6
SPTAN1 DAXX
YWHAB AKAP13
NCK1 NR5A1
AGGF1 PLDN
RUNX1 SIN3A
ZNF24 HAP1
NASP IKBKE
BCL3 RELB
ATXN7 TAF5L
ATXN7 TADA3
TOP1 CDT1
MCC MAP3K3
CDC42 ARHGAP10
PTTG1 CDC20
TADA2A KAT2B
TADA2A KAT2A
ERCC3 PSMC5
DLG4 CACNG2
NPC1 RPS27A
SAP30 RBP1
MGRN1 UBE2D1

F2RL2 INADL
TMEM63A EEF1D
RAC1 MAP3K11
TNFRSF14 RUVBL2
CTNNB1 CDH18
ZBTB16ZBTB32
LIG4 ATM
CLDN3 PRKACA
DMD PGM5
PRKCD FSCN1
BRCA1 PIAS4
VIM RIBC2
HGS NF2
HSP90AA1 UBE2N
PRKCZ SLC39A1
RARA MED25
GRB2 ANK2
YWHAG SRSF6
KIAA0232 WNK1
TEK ANGPT1
VTN HGF
EZR IQGAP1
PSMC2 NDRG1
ZBTB16COQ6
BMX RUFY1
CEBPG RPS27A
TP53 CCDC106
MDFI AASDHPPT
UBE2I TNRC6A
ZNF629 TCEANC
MAGEA11 ARHGAP29
YWHAE C16ORF48
TP53 PPP1CC
ABL1 MED25
KCNJ2 KCNJ8
NPM1 NCOA6
ZW10 PTP4A3
HAUS6 HAUS2
PRMT2 SCARB1
TACC2 YEATS4

NPM1 RRP1
TNRC6A WNK1
BARD1 EWSR1
PARK2 MAPT
ASS1 ARAF
MYC MMS19
COMT XRN2
G2E3 WDR6
SLC25A37 EWSR1
PELI3 IRAK4
ITGB2 VAV1
CPSF6 EWSR1
CDC25A SMAD3
FAR1 GSTK1
ITGB4 CLCA2
LTN1 HES4
ACTL6A MYC
MED25 MED15
TIMM50 RIPK3
CCT5 MAP3K3
POLR2C MED29
FYB LCP2
MAF SOX9
HTRA2 TNFRSF14
CYP11A1 SMAD3
RAC1 NCKIPSD
BTLA VTCN1
CALM2 TNIK
PHLPP1 SUGT1
N4BP1 ITCH
HDAC2 DAXX
PIP5K1B PIP5KL1
COIL MAD1L1
AP2S1 PAK7
SRGN PRF1
COL4A2 KLK6
CENPB GF11B
EIF2S3 TRAF6
LHX1 RLIM
HES1 HEY2

PML TGFBR2
SRC FCGR2B
SRC FCGR2C
DVL1 ARRB1
YWHAG PAK1
MYCBP2 BAK1
CTDSP2 SNAI1
TGFBR1 FBXO34
APC SPTBN1
TAF12 TAF15
PKN2 WDR20
CCDC85B CCDC116
PELO RUVBL1
CASP9 NLRP1
TNFRSF1B HSPA9
SKI PML
ENO2 HK1
HIST1H4I PARP10
NFKBIA RWDD3
HDAC4 ZBTB16
YWHAG PPFIA1
WWP2 NDFIP2
AES GF11B
ANAPC7 CDT1
MMP2 COL7A1
MPDZ SYNGAP1
C19ORF57 COPS4
RNPS1 LUC7L2
RNPS1 THRAP3
PPP1R16A CXORF26
PPFIA1 GRIP2
EPC1 EZH2
ESR1 TOP2B
SLMAP STK24
LAMA5 COL7A1
HGS RIN1
NFYA KPNB1
FSHB FSHR
NSF PTPRO
ZEB2 MTA2

EWSR1 WWP1
RXRA GATA2
TSG101 TRAIIP
MED26 MED27
KNG1 CTSS
GTF2F2 BAG6
PDPK1 YWHAQ
GTF2E1 IKBKG
ZBTB25 MAPK9
GNA12 MAP3K5
SPTAN1 MAP3K3
NCK1 BCAR1
FUCA1 VAV2
HNRNPC NFKB2
NFKBIE ANKHD1
YWHAG PKP2
CXCR3 CCL7
TCEA2 GRIPAP1
FAM100A MED8
HBP1 EWSR1
MCC PDCD6IP
MCC TKT
TFE3 PSMA3
SOX1 STAT3
OAZ1 RPS27A
PRKAG1 CAMKK2
NFKBIA PCBD1
BCL2L11 RPS27A
RAC1 TUBA4A
RPS3 HSPA4
BNIP3L BCL2
HDAC5 PRKAB1
CASP7 STK24
TLR4 LY96
TRAF3 TANK
FN1 ITGB1
PDCD6 IGFALS
MAGI3 MED28
TNFSF11 MAPK8
ZBTB16LSM2

IKBKAP SDHAF2
SRF SRC
GRB2 PAK1
CREBBP CITED1
FTH1 SREBF2
HDAC5 NR2E1
CACNB4 SYT1
SLC25A6 KARS
HDAC5 DYRK1B
CREBBP CITED2
EWSR1 RNF183
PPP2CB SGOL1
SMAD9 VCIPI1
CREBBP SH3GL1
AGXT PEX5
ATG12 MAVS
SSR3 PHLDA3
SMAD2 STAMBPL1
PSTPIP1 SCG5
UPF3B EXOSC4
RAF1 PKM2
EFNA1 EPHA5
GABARAPL2 DYNC1H1
MLH1 UBAP2L
GRB2 MAP2K5
NDUFA4 TSC22D1
PTH FEZ1
USP9X MARK4
STX7 VPS16
MAP3K8 TUBA3C
RPS6KA3 PLD1
AP2B1 AP2M1
RXRB TMEM57
CRYBA1 CRYBB2
PSMA4 RPS27A
POLR2H RPAP2
C20ORF24 SSR3
FEN1 ARHGDI1
SLC38A1 RBM17
BMPR1B STAMPB

DOK2 INPP5D
NR2F2 SQSTM1
STX7 VPS11
CDKN1B CDC34
UBE2I MAPK1IP1L
MAPK10 HDAC1
TCERG1 MED21
HDAC5 AHRR
YWHAG AKAP9
ILF2 ILF3
MARK4PARD6G
RECQL4 EP300
AURKACDC20
CDC73 ASH2L
CTNNB1 ARHGAP32
EWSR1 NTNG2
ORC4 MCM2
LTA LTB
KRT18 TUBG1
EGFR GABARAPL2
HDAC2 ZFPM2
CP MPO
DR1 DRAP1
SEPHS1 C2ORF18
SDC2 REG3A
ACADM USP20
MYCN CHRND
TRAF5 TRIM37
FES BCR
MCC ARX
YWHAB HDAC5
YAP1 TP63
HNRNPH1 HNRNPH2
RHOA GNA12
PKLR USP3
BMPR1B AMHR2
YWHAE C15ORF29
SDCBP TGFA
FSTL1 INHBA
PLCG1 BTK

CDK1 PPP2R1B
CDK1 PPP2R1A
TFRC CD247
GTPBP4 LYAR
CACNB4 FASLG
MYST2 ATN1
NAP1L1 MDM2
MYCBP2 MAPK6
TP53 BTBD2
YWHAB CAMK2A
PVR DYNLT1
VEGFA HSPA4
RASL11B EWSR1
SPINK1 CTSC
PRKCA AVPR1B
KCNQ1 PPP1CA
SMAD9 LEMD3
COL6A1 MAG
PAICS NUDT18
PIK3C2B SFN
GRB2 IK
PAWR SLC5A7
AKAP3 ROPN1L
RPL35 CNBP
SRC YWHAB
MT-ND4 DAND5
GTF2F2 ATG3
DNM2 PRKAB1
MED25 MED19
PARP1 HDAC1
RHOA CAV1
AP2A2 SHC1
CD19 CD82
TOP1 CSNK2A2
MCM2 TCEA2
CANX MBTPS1
PDILT ERO1L
ATF3 NFKB1
MLH1 TRIM29
GATA1 TAF7

MTOR FBXW7
EGFR MAPK1
BMP7 ACVR2B
UBE2H DTX3
ARFRP1 CYTH1
SMAD9 PLEC
FLOT1 NGB
HARS TRAF6
ZNF512B PAPPA2
SIN3B SUDS3
PSMD11 PSMD13
SNX1 VPS35
EFNA1 EPHB1
EFNA1 EPHA4
PSTPIP1 RPL36AL
FN1 COL6A2
KRT85 CDC20
FLNC KCND2
PQBP1 EEF1A1
F7 IKBKG
IL1B CASP4
PFN1 GPHN
HDAC2 GATAD2B
TMF1 GFI1B
CTBP2 TEAD3
PKM2 NDRG1
OFD1 RUVBL1
LCK STAT5A
SGK1 HNRNPL
GRB2 SOS1
RPS27ARNF144B
ZBTB16EPN1
DCX PAFAH1B1
NFKBIE JUP
DNAJB1 SEC61B
RAC1 ARHGAP15
UBE2D2 DTX3
LCK STAT1
CCL2 CCR3
MAPK14 YY1AP1

CDC42 INPP5F
VPS16 VPS11
AMBP ALB
KRT31 STK38L
SPRR2A CTTN
CCL2 CCR5
IRF1 SUMO1
CDKN2A ZNF410
PRKAR2A AKAP13
RPS27ACDT1
MAX SMAD3
ARPC5 ACTR3
MAP2K7 DUSP22
GLB1 NEU1
MAX HNRNPU
CKLF HDAC2
SEMA7A FYN
HSPA5 HSPBP1
CFL1 TPI1
LDLR PF4
EP300 RAD50
NRAS BCL2
FOS TPR
LRPPRC GABARAPL2
ARPC5 ACTR2
HSPA9 MAP3K14
ARRB1 RTF1
ZNF512B ZMYM2
GNAI2 GPSM2
ITGB1BP3 ST7
UBE2D1 RLIM
FGR FASLG
MET CTNNB1
RAC1 ABI2
FECH USP20
HAND1 PRKACA
HLA-A LILRB2
ESR1 THRB
PTPN3 YWHAG
ESR1 THRA

EP300 NEUROG1
CLTC TANK
AURKARAB10
IRS1 CSNK2A1
SMAD9 SVEP1
SIRPA IL1RAP
SFN REPS2
NFKBIA IKBKG
VIM C7ORF64
PTH PTH2R
PRKAR1A SMAD2
CBL SH3KBP1
RBL1 SMAD3
PIAS2 GTF2I
SLC38A1 UBE2D3
STAT3 BMX
NPHP1 NPHP4
HDAC2 DDX20
FANCA ERCC4
SPTBN1 MAP3K4
PTPN11 FRS2
ACTL6A ING1
TNFRSF17 TNFSF13B
KRT85 MLST8
BCR IRS1
FBLN2 COL4A3
PABPC1 PXN
MYBL2 SKP2
ITGB1 ICAM4
ARRB1 MAP4K3
ESR1 LCOR
ADRB2 SLC9A3R2
GRB2 IL5RA
PLK4 MTUS2
CPE POLA2
EIF4E MKNK1
CBL LAT2
OXSR1 WNK4
PPP1R13L TP63
ACTA2 CREBBP

SMAD3 EBI3
GYPC EPB41
NR4A2 RAN
EFNA4 EPHA7
UBE2H POLM
NBN CHEK2
ZFYVE9 PPP1CC
COX4I1 IKBKE
CASR CHD8
L1CAM CNTN2
BZW1 EDEM1
BRCA2 MCPH1
ANAPC7 ANAPC1
MED6 CYP27B1
GRB2 SOS2
TPM3 HSP90AB1
ATF2 MAPK8
LYN CHST15
F2 CPB2
ATF2 MAPK9
SKI SPI1
GADD45G KIAA1377
TPR SHC1
LMNB1 HLA-B
CTSD MAPK1
PRPF40A CDK12
CSNK2A1 SREK1
MYEF2 PPARGC1A
CYP27B1 EP300
POLR2C MED17
RAF1 RRAS
KRT5 DST
SPP1 UBQLN4
EGFR SOS2
SIAH2 SNCA
ABI2 ADAM29
ZFYVE9 TGFBR1
PTEN MAGI2
CREB1 GTF2A1
HIST1H2BB ERCC6

RADIL LITAF
PAK2 PIN1
ESR1 SP3
SNRPE STRAP
AP3S2 AP3M1
UBE2D2 RING1
F7 GGCX
AIRE FYN
GRIK3 LGALS12
BUB1 CDC20
HDAC3 DAND5
RPA2 TUBB2A
REG1A REG3A
PTPRC CD28
TRAF3IP1 TAB2
ITGB4 YWHAQ
TFE3 CLTC
NFKB2 DHX9
FBL ILK
PTP4A2 USF2
FZD7 UBQLN1
YWHAG CKAP2
GFAP MYO15B
LCK DOK3
SYNJ1 SH3BP1
TAPBP SEC14L3
CBFA2T2 TAL2
TAPBP TAP1
FADD HIPK3
NKX2-5 JARID2
IKBKB TRAF2
ITPR1 TRPC6
CNBP PURA
ATXN7 KAT2A
CDK4 VTA1
ATN1 RCHY1
DYNLL1 PAK1
PDC YWHAZ
GRB2 MS4A2
ITFG2 KPTN

RB1 AR
CDH1 ITGB7
MAP3K12 RAB11FIP4
GTF2H1 KIF13A
DAPK1 UNC5B
POLR2E IKBKG
JAK2 ERBB3
UNC13B TOE1
DLG4 SHANK1
EGFR SOS1
IL2RA IL2RB
GBAS HK1
MGRN1UBE2E1
PARP1 SREK1
KRT18 YWHAE
CDC42 MARK4
PLSCR1DAZAP2
HNF4A MED21
VIM CASP9
CCT2 STRN3
VIM CASP7
RBBP8 IKZF3
DDX5 IKBKE
VIM CASP6
SNW1 NCOA1
C20ORF195 PDLIM7
CCNE1 CDT1
EIF3M TRAF6
RGS12 EEF1A1
SMAD9 ARHGAP9
NFKB1 TUBB6
AURKAUBE2N
SMAD6 RPS27A
CLIP1 RAC1
THBS1 COL5A1
VHL SAR1A
DAPK3 UBE2D3
HSP90AA1 HCFC1
MAPK1 CEP55
ITGAV SPP1

CRP MAPK3
SNW1 SMAD2
UQCRC1 SNRPF
HLA-B MCM7
CSNK2B CTDP1
PRKCQ CISH
HSP90AA1 IRAK1
RNF103 RPS27A
TLX2 POU2F1
EIF4E STUB1
SGK1 FOXO3
GNAO1 CACNA1B
LYZ PARP11
EP300 KAT2A
FGF2 CASP1
EP300 KAT2B
GABARAPL2 FNIP1
AVPR2 ARRB2
DAND5 SKIV2L2
GSTZ1 FYN
PRKDC XRCC4
DDX3X SREK1
MPP3 PLK2
SNCA GABARAPL1
ATF2 ZDHHC17
NR3C1 ZNF496
EP300 DDX17
ABL1 GSX2
CHMP6 CHMP4B
ETS1 SMARCA2
GBAS PARP1
YWHAG LMO7
RB1 FOXM1
RAD21 SRRM1
NTRK1 RGS19
FXR2 FTH1
MAPK6 RANBP9
POLR2C INTS10
LRSAM1 MUTYH
RNF165 UBE2D4

ATN1 LENG8
UBC DAPK1
PTPRF PTPRD
CDC25C PPP2R5D
MYO1CPTP4A3
TRAF3IP1 ABI2
RNF32 EXOSC1
TLK1 ASF1A
HCK VAV1
THOC7 MED8
FOXL2 SMAD3
SKP1 CACYBP
FLII DLST
MED6 EHMT2
SERINC3 VDAC3
SNRPE SF3A2
TERT HSP90AA1
HIST3H3 NCOA3
TERF1 TRIOBP
MLL2 SMAD9
RECQL5 ITGB3BP
PIK3C2A ATG7
CPSF4 SLC12A9
CIT GRIN2D
ACTB SSH1
CSNK2A1 HIF1A
RASSF2STK4
RBBP5 PAXIP1
DVL2 ZNF250
CD19 CR2
CUBN SCGB1A1
RPS27A GAN
HDAC2 MBD3L1
CSNK2A1 IFI16
SH3BP5MAPK10
SH3BP5MAPK12
SMAP1 SMURF2
CCDC93 TRAF3IP1
CALM2 TBK1
B3GNT9 MDFI

TRAF5 TNFRSF14
TRAF1 HSPA1B
ENO1 MAP2K5
TOM1L1 RAB18
PSMC4 CMYA5
MED21 ZSCAN1
EGFR TNK2
HSPB1 CRYBB2
CD8A HLA-G
DCTN1 BZW1
HSPA5 STMN1
AP2A1 APC
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VAMP2 STXBP2
PDE6D GRK7
VAMP2 VAMP3
USP8 KRT31
VIM DIS3L2
CREB3 EMD
IFIT5 CDC37
CRYABCRYGC
SEC13 TAB2
CDK6 CDC37
SGTA HSP90AA1
NACA WNK1
ESR1 ESR2
UBE2H RNF10
PTPN11 PILRB
PTPN11 PILRA
AIRE SRSF2
IPO13 RBM8A
MCM3 DBF4
POLR3G POLR3D
FYB CBLB
PPP2CAPPP2R5A
ANKRD28 PPP6R1
PPP2CAPPP2R5B
KIF1B GIPC1
CPEB1 DYNLRB1
KDELR1 ARF1P1

SKP1 DDX19B
DAND5 HIF1A
RECQL5 UBR5
GOLGB1 ACBD3
SPTBN4 DISC1
PRKAB2 AGL
PIK3R1 APOL5
SERPINB9 UNC119
UBE2K SIAH1
AIFM1 UBASH3A
RGS19 GIPC1
IKBKB IRAK1
MAPK3 BLVRA
TNFSF10 TNFRSF10D
RPS27A TRIOBP
KBTBD7 C14ORF139
NFKB1 TUBB2B
SREBF2MSL2
NR4A1 NCOA2
HLA-A SSR4
ZBTB44SMURF2
CHEK1 XRCC5
RAP1A RASGRP2
FBLN1 ECM1
PTGES3COPG
CREM HDAC1
ATF1 CSNK2A1
BUB1B HDAC5
AVP MLL
MCM10RPAP1
NUP98 GRB2
NFKBIE HSP90AB1
LSM1 LSM2
CREM CAMK2G
CAPN1 TINAGL1
NHP2L1 POLA2
TP53 GNL3
MPG LRRC59
CREM CAMK2D
PRTFDC1 EWSR1

SNRNP40 DDX23
GRB2 TNK2
RTKN GOPC
ZBTB16NCOR2
MAPK8 SIRT1
POLR2C MED27
UBE2K MKRN2
CDK2 CDKN1B
CCT5 SRRM2
SMNDC1 DDX50
CTSG CASP7
CCNB1 HIST1H1A
MLLT3 BCOR
MSX2 DLX5
NLRP3 PYCARD
BRCA1 POLR2K
MAP3K7 TRAF3IP2
SKIL CDC27
CPE PMCH
TTI1 PRKDC
IRF5 TRAF6
SNCG MAPK3
LGALS3 PDCD6IP
CBX4 CTBP2
LRRFIP1 MYD88
OPRD1 GNAI1
LGALS3 GEMIN4
TNFRSF14 PFDN2
ITGB7 EPS8
TGFB1 CRIM1
KDM1AUNC119
LIMK1 MAPK14
ABL1 BTK
TERF1 TNKS2
AP2B1 DHX58
CRADDC14ORF1
GATA1 SMARCC2
POLR2E POLR2F
SYNJ1 SH3GL1
ESR1 CREBBP

ESR1 MYST3
SYNJ1 SH3GL3
MCM7 CDKN1B
MCC PPP2CB
MRPL15 TRIM63
FYN SNCA
HIST1H2BB UHRF1
SMAD4 KPNB1
ATXN1 YWHAE
SMAD4 GPNMB
DDX54 LYAR
PCBP1 TSC22D4
KRT10 EVPL
MYO1BMAP3K3
AHSA1 HLA-B
MBP CTDSP1
MPL ATXN2L
SHC1 CSF3R
FMR1 RANBP9
ANKRD13A RNF11
SPTAN1 TES
VHL OTUD7A
RNF41 UBE2Z
DDIT3 CEBPE
GSN PSMD4
HSP90AB1 PSMB5
ABL1 HSP90AA1
SUMO1 SENP1
UBE2B POLQ
TPR APC
SNAP23STX1B
SDCBP GRIK3
SFN MAP3K5
SDCBP GRIK2
IPO7 TRAF6
SMAP1 BRF2
YWHAG PRMT1
SNRNP200 MEPCE
CHD3 CRCT1
SRSF4 SF3A2

CASP4 SSR4
EPB41 ATP6V1E1
COPE TSG101
KDR BMX
LYST CENPJ
CD2BP2 PSMF1
NRAS SMURF2
FGA PRRC2A
UBE2N CHFR
UBE2N RNF125
PDPK1 PRKCZ
TOP2A SUMO1
YES1 CD2AP
SLPI ZBTB16
ANXA2 PCNA
LHCGR ARRB2
MAPK10 UNC119
MUSK RPS27A
NCOA7 GABARAPL1
UBE2L6 MUL1
HLA-A PRKCA
RPL10 TBPL1
DLST RUSC2
EIF3H PRRC2B
TOP1 BTBD1
FZD7 UBQLN1
CD4 CXCR4
SAP30 HIST1H2AL
CIAO1 MYO1D
PTGDR GNAS
CAPNS1 ARR3
ITGA4 MADCAM1
RPL18 MAP3K14
ZNF655 C12ORF11
CSNK2A1 STX1A
OGT FBXW11
ZFYVE9 ANKLE2
DNM2 SH3GLB1
SF3B1 YWHAG
HNRNPM MAP3K1

ITSN1 TSG101
CFL1 HSPH1
TARS UBA5
ORM1 SERPINE1
TNFRSF14 SLC25A22
GJA1 MAPK7
SNRPE LSM2
SGK1 CDC37
HLA-B GARS
TLR1 TLR10
SIKE1 STK24
PSMA4 CSNK2A1
RPL13 MAP3K14
PIK3CGPTPN11
EP300 KAT5
STAT2 CXCR4
RPS6KA5 ATF2
DVL1 EPS8
HSPA5 TAB2
UBE2D2 RNF25
SEC14L2 PIK3CG
RAC1 MFGE8
YWHAH HNRNPD
DAND5 PARP1
VAPA USP20
C20ORF94 COPS7A
SRPK1 SREK1
AIMP1 MAPK14
CD3E UNC119
TUBB4 REL
EPB41L2 YWHAB
HOXC11 DAND5
IPO11 TRAF2
LHCGR CHST9
RAB11FIP4 RAB11FIP5
PPP2CBMOBKL3
STAM MED28
ATIC TRAF6
GNAS RIC8A
PRKRA SETDB1

TOP1 CDKN2A
TGFB3 FMOD
PTP4A3 HNRNPM
SMAD7 UCHL5
LCK PXN
LCK PI4KA
EGFR FN1
TP53 CABLES2
RPL13 CDC5L
RAF1 ARRB2
ATF7 TAF12
SERPINE1 MMP3
DNAL4 DYNLL2
SNRPD3 SREK1
SUMO2 PHF8
HDAC3 GPS2
ZBTB8B CEP70
ERBB2 PTPRZ1
ERBB2 PTPRG
CYP27B1 MED13
FYN SUV39H2
PABPC1 WWOX
RAG2 RPS27A
NR1H2 SRC
ITSN1 STON2
SMAD9 SNRNP70
ADRA1D SNTG1
RB1CC1 MOBKL3
NKX2-5ID2
ACTA1 MYO6
UBC RPF1
RAB3GAP2 MAP1LC3A
CTNNB1 SMAD4
TLE1 BARHL1
ERBB2 PTPRB
HSP90AA1 CSNK2A1
LCK PIK3CA
FLT1 PIK3R1
AIRE SMC3
HLA-B EIF2S3

MAPK3 C1QBP
GNAS FSCN1
HOXB1 PBX1
OXTR GRK5
HNRNPA1 TTF2
ERBB2 JAK1
EGFR EPB41
HDAC5 NCOR2
PARP1 TRIM28
NSF STX12
EHMT2 DNMT3B
EIF3D USP3
CPE TRH
TTN DDX56
DDX17 SREK1
FXR2 LCMT1
ESRRA DUT
GNE KIAA1549
SMNDC1 MAPKAPK2
CTSO SERPINB13
SPP1 PDLIM7
FDFT1 FAM101A
PCBD1 CALCOCO1
SERPINE1 ELANE
KAT5 PLEKHA4
PITPNM1 PTK2B
PRKCZ CASP8
TAF1C TAF1B
GRID2 GRIK2
ENG TGFBR3
EPB41L2 SPTAN1
ARNT HEY2
PHF17 KAT5
TTC17 SMURF1
KDM2BEZH2
LGALS3BP TRADD
RAB35 GNPAT
NFKB2 LGALS3BP
TGFBR2 ACVR1
TRADD TNFRSF25

UBE2H TRIM36
ACP1 EPHB1
ENSA KCTD15
SFN ARHGAP21
TRAF7 TRAF6
KCNQ3 CALM2
TGFB1 STYXL1
MDM2 BANP
UBOX5 UBE2E1
NCK1 ADAM15
MAPK10 MAPK8IP2
EIF1B EIF1AX
SNRPD3 GEMIN6
HTT OPTN
LDLR APOE
AR CCNE1
FYN FLNA
DBN1 MAP3K3
SUMO1 MDM2
KDM5C SMAD3
TUBB PFDN4
PRNP OPCML
ZC3H12A TANK
ACTL6A RELA
NTRK1 RASGRF1
OSBPL9 OSBPL11
PSME3 DTNBP1
OSBPL9 OSBPL10
CHD4 MCRS1
MYBL2 E2F1
ATN1 SPAG5
FLNA PCBP2
PTPRT PTPRN
HMGB1 SOX18
GABRR1 MAPK1
HDAC3 CSNK2A1
CDH1 ITGAE
SREBF2 GOLGB1
SRF NCOR2
UBE2E1 NEDD4L

GJB1 OCLN
CTNNB1 SH3KBP1
HSPG2 VWA1
TNFRSF14 RPL36
ESR1 NSD1
PHB RNF2
AR DDC
ETS1 STAT5B
ERBB3 VAV1
RANBP2 MYH14
POLR2G WDR48
HSP90B1 MAPK6
EEF1D FRA10AC1
SORBS2 ABL2
MAX CLIP2
VHL ATM
UBE2D3 TRIM2
GABRR1 GABRR2
ZNF512B TRAF4
HDAC1 SMARCE1
PLXNB1 GRB2
RAB3D RAB3IP
DVL1 CSNK1E
PSMA7 PARK2
CBFA2T3 ZNF652
ENO1 TSG101
HSD11B2 CTBP1
POLR2C INSL6
EIF1B EIF3A
VIM TRIOBP
FOS FIP1L1
SLMAP RAPGEF2
POU2F1BRCA1
CTNNB1 MYO7A
DSPP DES
MAPK10 KIF26A
CRTC2 SIK2
WDR5 TRAF3
SHBG FLNA
RAF1 AR

YWHAG SF3B2
TRAF3 TNFRSF11A
ARL3 GOLGA4
ATN1 CACNB1
IKZF1 HDAC2
CLINT1 MAP1LC3C
RIPK2 CASP8
SETD1A CXXC1
PRKDC ATM
SSNA1 SPATA2
ZNF24 USP11
ARL3 UNC119
SMC1A SMC3
MCC EEF1D
CCT2 PAK2
CDK5R1 CDK5RAP2
CSN1S1 KLK6
GRB2 MAP1A
DSPP PRKACA
WIZ CTBP2
COL6A3 PDIA3
A2M CPB2
EWSR1 DYNLL2
NUP153 SMAD3
MID1 UBE2L3
CRYAA CRYGC
SLC38A1 RBM17
SS18L1 STAT3
GNAZ RAP1GAP
DDN WWC1
PRKAR2A SEMG2
ARL4D EIF2B1
CD28 CD247
HERC2 PMS1
RAB11FIP1 RAB11FIP2
MYC TUBA1A
GABARAP MAP1LC3C
RNPS1 NKAP
PRKAG1 FKBP4
PSTPIP1 ACTB

HTT GPRASP2
TGOLN2 AP1M2
BUB1 AP2B1
TAF13 TAF9
BCAP31 SEC61B
PCBD1 FAM135A
TGFB1 ITGB8
UBE2D3 TRIM5
TUBG1 GSK3B
MDM2 CCAR1
PPIB TRAF1
EP300 IRF7
RHOT1 TRAK1
YWHAG PPIG
SPOP GDI1
CXCL11 DPP8
NR3C1 SLC25A4
MCM6 MLLT3
CDKN2A ZNF227
RECQL5 PCNA
RARG PNRC1
CDC27 PIN1
HDAC4 ANKRA2
RUNX3 HDAC2
SIVA1 TNFRSF4
CHMP2A USP54
PML TOP2B
COIL FAM115A
PLS3 HLA-B
CSNK2A1 CDC37
YWHAG HNRNPAB
TYK2 ELP2
TAF7 TAF2
LYN ADAM15
PEX19 SLC34A1
MAPK1 DUSP9
SLPI CTSS
ARRB1 ITCH
GIGYF2AKNA
CDC27 CTNNB1

ILK NUP93
EEF1D KPNA1
STAT3 STAT5B
KRT31 BAK1
TNFAIP3 NDUFS1
CLINT1 OSBPL10
IGF1R GNAI1
TGFB1 DCAF6
DLG4 ZDHHC17
ERBB3 NRG1
SPOP DDIT3
CCND2 DMTF1
CLCN4 CDC42
BAX MOAP1
CMPK1 BACE1
ATXN3 EP300
PLCB2 ALK
SF3B4 SRRM2
PARP1 THRA
FLT4 KDR
TP53 HNRNPUL1
STAT3 CCR5
PGRMC1 ATG5
RELB SMARCC2
YWHAQ CRTC2
TUBA1A RAB8B
ODF1 TRIP6
RASSF2STK3
TGFB1 RASL12
AMFR UBE2D1
HEXIM1 ESR1
SFN PI4KB
CDC25A NAA10
NR4A1 RPS6KA1
ERBB3 FLYWCH1
PSMD11 TLE1
DYNLL1 MTA1
CDK14 SEPT8
LYN UNC119
NSF STX8

CLSTN1 TOPBP1
MYOG CSRP3
TRAF2 SPATA2
STK4 TAOK1
PTPRC GHR
RPA2 RB1CC1
PTMS CREBBP
YWHAB TPD52L1
SOCS7 GRB2
DSPP RANBP2
ILK RICTOR
RECQL5 TOP3A
KPNA5 CDKN1B
CD4 HLA-DQB2
SOCS1 TIRAP
VWF MAP3K3
GNA14 SSTR2
TGDS PIK3R1
APBB1P PACSIN3
FGF17 FGFR2
FURIN SORCS1
PTPRB SUMO1
CCNT1 CDK9
MLH1 FLNC
CD19 PLCG2
CYP27B1 BAZ1B
EMD SMARCC1
CCDC141 DISC1
UBE2N TMEM189
VHL EP300
CDK12 SRRM2
TCEB1 DIO2
SKIL RPF1
MAPK6 HECW1
SPTAN1 EVL
HGS TUBB2A
PPP2R1B ZRANB1
SRC AKT1
CBL PTPRK
JAK2 HTR2A

ACTL6A INO80
APEX1 SET
NCK1 CSMD2
PARP1 PRMT1
RPL28 LYAR
PSMA3 POMP
HSPA4L TAB1
MAPK3 GAB1
ELN BGN
MEX3B RAP1GAP
FLT1 PTK2
CCNB1 FLNA
EP300 GATA6
UBE2N STAMBPL1
INO80DINO80
BRCA1 CCNA1
XRCC1 LRIG3
ATF2 MAPKAPK5
GREM1 YWHAH
GSK3B CKLF
FGFR1 CDH1
SNAP29C1ORF190
NFKB1 BCL3
ERC2 GIT1
GRN HK3
DAND5 MAPK14
TGFB1 NKIRAS1
RUNX3 SMURF1
MTPN PRKAB1
GRINL1A AHSP
TRIP13 NIF3L1
DPF2 SMARCE1
TACC2 SMARCB1
ROD1 FTSJ1
NPLOC4 VCIPI1
RAD17 PRKDC
UBE2D1 BRE
PTN RAPGEF2
ADRBK1 GIT2
ESR1 CTNNB1

SMARCD1 CDX2
OMA1 APLP2
KHDRBS3 SIAH1
HOXC8 BMPR1A
ARPC5 ACTR3B
OXSR1 TGFBR1
CRK CSMD2
TSC22D1 EHD4
PTPRF CAV1
TNFRSF1B SLC1A5
EPOR SHC1
PDPK1 PRKCD
BCL2 NR4A1
BMPR1B PLEKHB1
EPOR PTPN6
CSNK1G2 MTA1
MMP13 BCAN
PHKB C20ORF27
FUCA1 MARK2
RPL22L1 G3BP2
TUBA4A NCOA6
SRSF7 CPSF6
ZNF133 MDM2
CSK PTPRO
H3F3B MLL3
CACNB4 TBL3
PRPF4 N4BP2L2
FLNB MAPK8
LMO3 C19ORF50
YWHAQ SPIRE1
DNM2 RUVBL2
RXRA PIK3R1
KDM1AHDAC1
RXRG LRSAM1
ATAT1 SETMAR
JAK2 PPP2R1B
ROCK1 SMAD2
APP APLP2
STXBP1 PLD1
USP6 USP32

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ESR1 PHB
MYC SMAD2
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ITGB2 GULP1
AP1G1 AP1M1
ZNF165 PDLIM7
ATN1 MAGI1
PLCG2 ZNF512B
FLT1 KDR
CETP EWSR1
TNF CALM2
MCC GNB1
DFFA USP15
CLINT1 STAMBPL1
FKBP2 MAPK3
CCNG1 MDM2
AP2A1 NUMB
KAT2A ENY2
LAD1 COL17A1
EPPK1 NFKB2
ERCC3 MNAT1
AHSG RRAS2
MAPK10 HDAC9
ERCC3 CCNH
VHL USP33
ITGB5 PALLD
SYNJ1 SH3GLB1
PRC1 CENPE
FANCC IK
HSPB6 HSPB8
TP53 DUSP28
USP14 PSMD4
YWHAG MAP3K3
STX2 CPLX2
ALDOB BBS2
TNFRSF10A BTK
APOB RPS27A
RHOG DOCK1
CD19 PIK3R1

BCAR1 JUB
CREBBP NPAS2
TNFRSF1B C1QBP
NFKBIA NCOR2
SRSF2 U2AF1
SGK1 FSCN1
PIK3R1 LRIG3
CD3D AP2M1
UBE2D3 TOPORS
MBD4 TRIM27
ZNF512B IL1F5
INSL3 RXFP2
TUBG1 RACGAP1
DNM2 EIF3L
HSPA5 EIF2AK3
HSPA5 PTEN
CSNK2A1 MAPK14
CTNNB1 AKAP12
SLC11A2 NDFIP1
TRIM27TRIM11
S100A1 PGM1
PRKAR2A AKAP4
SNAP23PRKCA
COPS2 IRF8
CCT5 CTTNBP2
DCTN1 DISC1
ENO1 MYOC
TAF5L MAX
CDK8 EHMT2
ANXA5 IFNGR2
SMAD9 TBCD
XPO1 CCND1
SNRPD2 SRRM2
ELF3 EHF
PNP APLP1
GPR37 DNAJA1
PSMD11 ZHX1
NKX2-1RELA
VCP RNF19A
MDM4 TP53

CUL4B COPS3
UBOX5 UBE2D1
APIG1 NECAP1
PPP2R1A CTTNBP2
SERPINA1 TCF3
ITGAV AUP1
TMSB4Y ACTA1
HSPA4 HNRNPD
PRKG1 GKAP1
IKBKAP PLK2
CDK1 HMGA1
PRKACA BAD
CAMK2D CYLD
TP73 CREBBP
PPP2R5D NEK1
PLCG1 KDR
BDNF NTRK2
SRGN GZMB
MTHFD1 MCC
SRC MUC1
SNRNP70 SFPQ
FZD7 PTK2
NCK1 TMPO
ABL1 PRDX1
RPS11 MAP3K1
LRSAM1 TSG101
ESR1 COPS5
RPS27A PLK3
RPL28 UBE2D1
SERPINA1 ELANE
YWHAB HECTD1
MDFI DDX19A
APBB1 TSHZ3
PLA2G4A CAPI
POLE2 POLE4
BCL2 CASP3
BCL2 CASP2
TRIP6 C5ORF55
MEF2D CABIN1
APOA1 GPLD1

IKBKB HSPA1B
HSPA9 RELB
TACC2 HMG20B
SMARCA4 UBE2O
VHL RAB1B
NCOA2 CARM1
UBE2E1 DTX1
NFKBIB NKIRAS2
NFKBIB NKIRAS1
MYC MAPK8
C4ORF41 HDHD2
PIK3R1 NUP85
PRKCB GPRIN1
POU2F1PRKACA
CMPK1 ATG5
RB1 CASP3
RB1 CASP2
RAD9A ITSN2
NF2 RIT1
MED26 MED16
UBE2E1 DZIP3
TCF3 ASCL3
IL2RB SHC1
OGT NUP62
IL2RB PTPN6
PRKCD EP300
LCK AXL
EGFR PTK2B
DDX5 FBL
RFC1 RAD50
FASN EWSR1
TUBB RASSF1
SMAD9 HEY1
SLC22A1 LASS2
CSDE1 PRKAB1
DZIP3 DDX42
UBE2E2 RNF2
CDC42 DOCK7
PSMD11 PSMD4
MYH1 EXT1

EPB41 CACYBP
RANBP1 TRAF6
PCK1 IKBKG
SP100 CBX1
GADD45G PPARD
MYO1CIKBKG
TUBB4 RIPK1
NCOR1 NR1H4
BNIP1 STX18
MYC KLHL5
BRCA1 DCLRE1C
ADRB2 PPP3CA
EIF2S2 CSNK2A1
EIF1B FUS
CCDC33 MDFI
NCOR1 TXNRD2
CNOT10 CNOT2
MAP4K4 UQCRB
SNRNP200 USP39
TRAF3 TNFRSF18
IKBKG NFKB2
SVIL PPARG
COPS2 COPS4
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EIF4EBP1 RPTOR
NCAM1 ST8SIA2
NCAM1 ST8SIA4
RAB10 SEPT9
HSP90AB1 EIF4EBP1
PRKDC CLN3
MAPK9 MAPK8IP2
ADAMTS4 MT2A
PSMA3 IKBKG
ATRX LUC7L2
CSF1R INPP5D
SMARCD1 FEZ1
HIRA HIRIP3
UBE2U RNF17
GBAS LONP1
ASAP1 PACSIN2

DLG2 NLGN1
LBP RPS21
BID BCL2L2
TAF5L ATXN7L3
TIMM23 GSTK1
RUNX3 SMURF2
CSNK2B NOLC1
JUP DSC3
CHEK1 HSP90AB1
MLH1 VAMP8
FOXO3 SIRT1
SDC1 LACRT
NPM1 EIF2AK2
RUNX3 SP110
SUPT5H ZNF496
TNKS FANCD2
SMAD4 RAB34
STX5 HAP1
BMP7 NOG
XPC ATM
PF4 IL8
MED26 MED31
NPM1 NCAPG
MLH1 SLC25A23
TCP1 CCT7
SEMA3E PLXND1
YWHAG RALGPS2
CCL2 MCM2
UBE2U RNF26
NCK1 SHROOM2
YWHAG LSR
PFN2 ACTG1
KITLG CMA1
PARD3 ECT2
DLGAP3 FYN
IRAK2 IL1R1
NCK1 BRCA1
MAX ZMIZ1
NTRK3 DOK5
CCT2 RIPK3

DPPA4 DPPA2
BCL2A1 BBC3
NR3C1 RBM14
NKAP THAP1
PPP2R5C SGOL1
MYH9 TTN
CCT3 STRN3
MYH9 YWHAZ
MSTN SGTA
HDAC1 HDAC2
ESR1 IGF1R
RPA2 UTP14A
ELK3 ID2
JAK2 IRS1
MCM4 USP7
CCDC158 NAGK
LCK FAS
RECQL5 CREB1
BCL3 CREBBP
CBX5 CHD4
BRCA1 PRKDC
SMC1A STAG1
GTF2B MED21
RXRA PPARD
LYN NMT1
ANP32A HIST2H2BE
SNRPF SRRM2
GABARAPL1 RASSF1
HOXC9 NMI
CANX EBI3
PLCB3 SLC9A3R2
USP36 DDX41
KRT4 ATG4B
VPS18 GGA1
VPS18 GGA2
ESR1 DAND5
KIF2A CLSTN1
CCL25 CCR9
VIM YWHAE
GABARAPL2 NBR1

CUL4A WDR82
HDAC1 CREBBP
CYP2C8 DNAJB1
GABARAPL2 UBA5
TP53 COPS4
CD2 CD48
IRS1 GRB14
NONO RNF43
CATSPER2 CACNA1I
NUFIP1 RUVBL2
TNK2 VTI1B
PPARG RXRG
RPS27ARNF41
GATA3 REPIN1
EGFR FKBP8
NIPSNAP3A HAP1
ARNT TAZ
IFNGR1 STAT1
LYN CD79B
KIAA1731 EXOC1
GFI1B MID2
TFRC MCC
TCP1 MAP3K3
SOCS3 PTK2B
CREBBP CDX2
MAPK3 PPARA
CSNK2A1 NAP1L4
NF1 DNAJC7
RNASE4 ATP6AP1
SSR4 C20ORF24
XRCC5 TOP2B
FBP1 RNF183
EEF1A1 SPHK1
ARNT HIF1A
TFAP2A UBE2I
FYN MED28
ETV6 FLI1
CD9 HBEGF
CBX7 HIST1H4I
USP39 PRPF8

CARD6 CARD8
SOCS3 LEPR
PLK1 FBXO5
PRSS1 TST
FYN PRKCZ
FN1 REG3A
HDAC2 ING1
ANP32A HIST3H3
TBP NCOA1
PTPRM GNB2L1
IGF2 IGF1R
PRPF40A LTBP3
EED DNMT1
PTP4A3 GCN1L1
CAPZA2 TWF2
ADAM15 MEF2D
PSMB5 NFKB2
PFKP WIPI2
DDX3X DYNLL1
TERF1 YWHAG
CASP4 TMEM147
UBC ADAM19
ACTB INO80
HSPB3 INSL6
TCEAL1 TCEAL4
PFKP TRAF6
MDFI ETNK2
LAD1 SFN
ISG15 STK38
CD2 LGALS1
ADAMTS4 FN1
A2M APOE
PSAP CELSR1
SPAG9 MAPK8
KCNH4 ID3
BCL2 BLID
MCM7 ORC1
MCM7 ORC2
PDGFRB VAV3
LSM12 DSTYK

APBA1 KIF17
UBE2D3 RFW3
SPAG9 MAP2K4
VHL SET
GYS1 MAPKAPK5
SPECC1L GLIS2
EED CUL4A
SMAD2 ZFR
GRB2 GAB1
APEX1 CCNA1
PSMD2 UBLCP1
VHL SAP130
LRP1 GULP1
TNFRSF1B TRIP13
LSM1 UPF2
TRIM29 UBE2I
FOS RRP12
KIT CBL
EGFR CISH
RAP2B RAPGEF5
TP53 SLC38A1
PPP2R1A PPF1A1
MLF2 MMS19
TP53 TAF1
LCK KHDRBS1
EPB42 CNO
BTF3 TRAF6
SET HIST3H3
PTGS2 RBX1
ITGB1 FHL2
HDAC4 TP53BP1
NPY PPYR1
HBXIP ZBTB16
CCL11 CCR5
FKBP1A RYR3
KRT15 ARC
NR3C1 NEDD4L
CCL11 CCR3
FASTKD2 TRAF6
CHRNA4 UBQLN1

OMA1 PTPN11
SUPT7LTAF10
GRB2 POGZ
PPP1R8 SETDB1
GATA4 MED1
IKBKB MAVS
CEP70 ZNF426
FOS ESF1
GRB2 SNTA1
CDCA5 SMC3
MPP3 KBTBD4
GABPA GABPB2
DUT PPARD
TYK2 UBE2F
CSNK2A2 SLC18A2
LGALS3 MYOC
CD19 CD22
CTNNB1 ARID4B
INHBA FST
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C1QBP MAP3K3
MAGEA11 CCDC14
SUPT5H PACSIN1
TRIM37TCEB3B
CASP7 CASP6
CAND1 DDA1
MTMR3EXOSC7
CASP7 CASP9
PNLIP APC
MAPK3 DUSP4
YY1 FKBP1A
ESR1 SETD7
DAND5 CASP3
NDUFA4L2 COMMD8
BCL2 PPP3R1
SLC1A1EWSR1
DNMT1 NRIP1
GPSM2 GLIS2
CTSA NEU1
ANXA7 APC

GRB2 ADAM15
SLC38A1 HSPE1
CHGB SAFB2
GRB2 PDAP1
SMC1A CHTF18
YY1 PPIA
CNTN2 CNTNAP2
PPARD NR0B2
CEBPD TRIM26
MYLK2 NFKB2
TNFRSF14 SLC25A10
AIFM1 XIAP
TP73 KAT2B
ILK CNIH4
MDM4 E2F1
ITGB7 MAPK8IP1
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TNF NEFL
GRB2 OS9
CAPN1 NFKBIA
PLSCR1 ANXA11
ESR1 KAT5
CREBBP MAP3K5
PDZD3 SLC01C1
UIMC1 G3BP2
CDC45 CCL2
MYC MED1
SPI1 SSRP1
CD36 ITGA6
CDK1 CDKN1A
GJA1 MAPK1
GNAS RIC8B
GABARAP ATG3
LYN SKAP1
FAM127A HBP1
ARFIP2 DTNBP1
UBE2D2 RNF166
TRAF3IP2 TRAF1
NUP153 NFX1
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CBX6 USP11
LRRC8D EXOSC4
EIF1B PSME3
FLNA ARHGAP24
MDFI EWSR1
PTPN11 CD84
VAV1 EMD
FLT1 STAT1
ERH C7ORF64
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ATAT1 MDFIC
RING1 ELAC2
ILK CCDC59
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SUPT5H MAML3
SPCS2 C17ORF42
ATP5A1 TBK1
NPM1 IKBKE
HMGA2PIAS3
USP46 ERP44
NUFIP1 RUVBL1
GPAA1 PIGS
PLCD4 TRIM39
CYTH3 CALCOCO1
TGFB3 TGFBR2
NEK1 CTNNAL1
ID2 PAX5
NDUFA1 GOLGB1
DRD5 GNA12
CSTF3 IKBKE
CRKL PTPN11
MSN MAPK8
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TUBA4A HSPH1
ABL1 FLNA
MAPK3 PAK2
SDC1 CD9
FGFR2 FGF8
ABL1 PXN

FOXO1 PAK1
HAND2 PPP2R5D
CYCS IKBKE
FCER1G SYK
FYN DUSP15
PSEN1 APH1A
FGFR1 SRC
TAPBP COPB1
RPL28 SGOL1
TUBB DISC1
EIF2S1 EIF2AK3
HERC2 STAT1
FOXO4 MDM2
HLA-B AHCY
GRB2 SPTBN1
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ESR1 TNFRSF14
XPO5 TNFRSF10D
ZNF440 MAP4K5
HSPG2 COL13A1
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CEBPG ATF5
PRPSAP1 DDX19B
PAK1 ZNF83
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NR3C1 NCOA6
ASAP2 CBLB
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RB1 CCND3
IKZF1 SIN3A
SH3KBP1 ABI2
SRC DOCK3
RB1 CCND2
PLAT LAMA1
PFDN4 STAP1
C17ORF28 RCN3
STRAP PRKAB1
PCBP1 RUVBL2
SEPT4 RB1
CD2BP2 PRPSAP1

PRKCA CD163
SIAH2 SYP
TSPYL1HAP1
RSRC1 LSM2
PIK3R1 TEK
UBE2I RC3H2
SERPINH1 BRCA2
UBE2D2 RNF114
TUBB2C DLST
GADD45G PIAS4
CEBPB NOLC1
PIK3CGGAB1
CFLAR CASP10
MYH9 RAC1
TJP1 KIRREL
SMAD1 EIF2AK4
PRKACA ACLY
PLCG2 KHDRBS1
CREB1 CREBBP
DOK2 PSMD10
SNX3 ABL1
RPS27ABAX
CD5 CD79A
SOD1 HSPA4
HMGA1CREBBP
PARK2 CASP1
STX5 BET1L
HSPA4 ENDOG
CBL OSTF1
IPO7 TRADD
CSNK2A1 CREBBP
HNRNPK GFI1B
C5ORF55 TRAF2
ARL3 BSND
CCDC59 TRAF6
ARRB1 DDX27
YAP1 SMAD1
MLLT3 MCM6
HMGCR STARD13
CEBPB RORA

KIF23 ECT2
PTPRF CTNNB1
SPTAN1 PTOV1
ING5 MEAF6
VAMP2 STX1B
ABHD16A DNAJC1
STK3 FREM1
AKR1B1 CSMD1
MMP3 BCAN
PFDN4 SPATA2
TPPP SNCA
ATG12 RPS29
PGGT1B GNG2
HSPA4L TRAF6
SMAD9 DKK1
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FNBP1L DAAM1
GJA1 GJA5
TWF2 VRK3
NGFRAP1 CCDC85B
PPP1CACUL1
CSNK2A1 HDAC2
SUPT5H SSBP3
INSR ARF1P1
RPS29 DDX56
TRAF1 GF11B
GABARAP GPHN
TMEM11 BNIP3
HSPB1 MAPKAPK3
TBP TAF3
CARD6 NOD1
MAP3K7 COPS5
EPM2A RPS27A
RPL22 TMBIM4
KIF5A TP53BP2
TUBB MX1
FYN NTRK2
RAD17 POLE4
CDKN1A CCDC85B
XPA RPA1

SSRP1 NEK9
GDF9 RAB27A
PRKCZ PARD6B
ITGB2 PTK2
UBE2D2 TRAF6
PRKCZ PARD6G
MAP3K7 MAP4K1
PSMD7 PSMD4
RB1 CDC27
INSR SRC
PTN PSMB10
PCBP1 RUVBL1
EPB41 CENPJ
ERBB3 LRIG1
HMGB1 ATOH1
BMP2 RABGGTA
HDAC4 IKZF4
UBE2D2 RNF115
RB1 FRK
MLH1 MSH6
HIST2H2BE SIRT7
TIA1 RC3H2
PPP1CA TP53BP2
TLR4 HSP90B1
KRT15 USHBP1
DFFA HERC1
GTF2I SMAD2
ACTL6A BAZ1B
CRP GP6
HNRNPA1 SRRM2
MAPK9 NFATC2
NGFR ZNF274
HDAC3 THRA
UBE2W RNF167
KRT15 AMOTL2
STAT3 GTF2I
TOP1 CASP3
DDX3X YWHAZ
GDI1 YWHAZ
LRP2 DLG3

SEMA7A GRB2
UBE2A CMTM2
RAF1 BCL2
PLD2 RPTOR
UBE2D2 TRIM17
RASSF3MAP1LC3B
FANCA NCK1
ITGA1 COL13A1
NAA38 UPF1
DCN MMP7
UBE2V2 SUV39H2
ARPC2 U2AF1
RPS6KA5 MAPT
KIF20A RAB6B
SNAI1 JUB
TNNT1 PPFIA1
PLD2 PIP5K1A
PPP2R1B PPP2CA
SMARCA4 NFE2L2
EIF3E COPS8
CDK18 CCDC85B
UQCRC1 TRIM63
SMARCD1 BCL7C
GBAS GABARAPL1
GTF2F1 MED21
SNAPIN LRP12
ATXN7L3 TRRAP
DEC1 UBE2I
TPT1 IKBKE
TCOF1 USP44
HIST1H4I INGX
ADRB1 ARRB1
COPA RAC1
CCT5 TBK1
TNFRSF10C LRSAM1
BRCA1 UIMC1
GPANK1 GRB2
BTAF1 MYC
HDAC1 DDX17
HUS1B RAD9A

DSPP NFKB2
ESR1 BDNF
PIK3R1 PSEN1
MSH4 MLH3
RPS27A SOS1
SFN SHCBP1
PPFIA3 PTPRG
VTN LACRT
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SH2D1A SLAMF6
TUBG1 RNF19A
ARIH2 PPP2R1A
PAPSS1 UNC119
SH2D1A ERBB3
CANX ABCC2
ELF3 KCTD5
TNFRSF14 ATXN10
EWSR1 BTK
RPA3 RPA4
RCC1 CHKA
ATN1 EWSR1
PGAP3 CSNK1E
NCK1 DAB2
MAF USF2
HNRNPR NCK1
TRIM24 CBX5
SRC PTPN21
SUMO1 CDCA8
ERBB2 VAV1
MED26 TRRAP
BCL2L1 BCL2L10
PLK1 ERCC6L
CBX1 HIST3H3
TRAF2 NUDT18
NCOR1 SIN3A
SRSF6 PPARGC1A
RPS27A MCL1
CREB1 HDAC2
NCOR1 SPEN
CBX5 LBR

DMRTB1 NCKIPSD
LEP LEPR
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HCK CSF2RB
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PGAM5 OSBPL10
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SRF EPC1
ARSA Bmpr2
PLG IGF2
MYC IPO9
UBE2C ANAPC11
EEF1A1SDHAF2
FOS APP
DYNLL2 THAP10
EEF1D CTBP2
MOS Bmpr2
EIF3M PRKAB1
CCT3 HNRNPA0
RXRB APCDD1
PRKCA STXBP1
MYOD1RXRA
SRC DDR2
EIF2S2 ZBTB16
CBL EEF1A1
TACR3 TAC4
SIPA1L3 YWHAZ
HDAC2 BAZ1B
PRMT5 SNRPD1
ZNF354A TRIM28
CPNE3 QARS
NR0B2 SMARCE1
USP5 RNF11
DEPDC1B FAM175A
PSMB5 PSMB7
U2AF2 RNPS1
SUV39H1 DBC1
EIF1B ACTR3

FANCA PSMA5
GABARAPL2 CLINT1
SUPT5H RPL8
ZNF197 TRIM28
DLGAP1 NCK1
C8ORF33 GIT1
SLC25A4 PRKCE
PTPRA PTPRM
EIF2AK2 MAP3K5
TRAF1 RIPK1
FLNA APC
CEP152 EPB41L3
NR3C1 SRC
EGFR SH2B1
PCMT1 MCC
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PLD2 FTSJ1
HCK ARRB1
PRMT5 SNRPD3
HDAC2 MBD1
PPID HAP1
NRIP1 HDAC5
CD28 PIK3CG
C6ORF62 NDUFA4L2
TOP1 NCL
XRCC3 BRCA2
FLII CARM1
DAZAP2 NOC4L
DIDO1 WWP1
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DCN COL4A4
ERBB2 TENC1
RFC2 USP20
PCGF2 UBE2E2
FANCA SMARCC1
UBE2D1 BFAR
STAG1 PDS5B
SHC1 FCGR2B
SOD1 SMAD2
PPARG NRIP1

TAF1D RRN3
EED HDAC1
SP8 ZNF519
DVL1 HDHD2
VAV1 DNM2
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TFAP2A NPM1
TRAPPC2 TRAPPC3
GNAI2 P2RY12
CTNNB1 NR5A1
ZNF490 ZBTB32
TOM1L1 EGFR
TOB1 HNRNPF
EIF3F WDR48
DPEP3 BCL6
C1QC FKBP2
KRT31 USP15
CHD3 CHD6
PGLYRP1 YWHAZ
SCN4A DLG2
SRC ABI1
SLC25A21 AZI2
CD5 PIK3R1
CDH1 ACTR3
CDC37 MAP3K14
GNB2L1 GRIN2B
FKBP1A RPTOR
RAB4A RABAC1
BID CASP10
TRAF1 EDAR
CTBP2 CTBP1
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MAP1A MAP1LC3A
PRPF4 PFDN4
TWF2 ERC1
NFKB2 GLG1
YWHAE WNK1
HSPA4L PRKAB1
UBE2U TRAP

SERPINF2 KLK2
CDC7 CDKN1A
C6ORF204 MARK2
PRKACA RYR1
SMAP2 WDR48
NPBWR2 NPW
MAF EP300
MED14 MYC
SUPT5H PPIA
CDC20 YARS2
SLC38A1 ABCB8
MYC TAF5
DST MEF2D
ESR1 HDAC7
SMAD1 PSMD1
MEF2D SNX5
CYP27B1 RNF14
OMA1 CRK
MAD2L2 FZR1
SUPT3H TAF6L
OMA1 CRKL
ITPR1 MRVI1
RAD17 POLE3
FOXH1 DRAP1
RASD2 RABAC1
COL1A1 COL7A1
YWHAQ SAMD4B
CSDE1 TRAF6
HIP1 MAX
TNPO2 NXF1
KRT18 GRB2
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CREB3L3 USP7
CHD3 IMMT
GRB2 DCTN2
PRKACA SYN2
SERPINA1 CTSG
PSMB1 TSC22D1
EPB41 SPTBN1
GOLGB1 VRK1

MCF2L CDC42
RBMX TRA2B
ESRRG PPARGC1B
MTNR1A GNB4
XPO1 FOXO4
KLHDC2 EZH2
RBMX MEPCE
FOS APLP1
HAND1 ACHE
YY1 HIST1H4I
HAP1 PPID
PPARD NCOA2
OMA1 LRP2
ESR1 NR2F1
ESR1 NR2F6
MARK3 KSR1
GOLGA3 TSNAX
CASP4 SMC1A
TGFB3 ACVRL1
STAP1 RUVBL2
ACTN1 GRIA4
TP53 TOP2B
CDC6 MCM8
PSMD11 GAPDH
ZNF24 COPS6
IKZF1 CHD4
OMA1 VLDLR
IRS1 PIK3CA
ZBTB7B DAND5
BRD2 HIST1H4I
PPP2R1A STRN3
CHGB RXRG
AR NRIP1
UBA1 UBE2I
SCAND1 ZNF397
PCNA ELP3
STAP1 RUVBL1
ANXA2 YWHAZ
ESR1 DDX17
UBE2K UHRF2

ACTA1 MLPH
UBR5 WDR48
UIMC1 SPATA2
MAPK3 DAPK1
PSMB3 DSTYK
CCND3 RUNX1
A2M CTSE
PDCD6IP TNFRSF10D
PRKCA CYTH2
UBE2E1 RNF130
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CHEK2 MDM2
CAPN1 FANCC
CCT5 STRN3
USP1 KPNA1
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SHC1 MUC4
HPCA MAP3K10
HMGB1HOXB1
HDX SUFU
CDH2 CDH11
HMGB1HOXB3
LCP2 CLNK
CCT2 STK24
STK16 ICA1
HNRNPU NFKBIB
TERF1 UTP14A
RBL1 MCM7
CD58 DNAJA1
ATIC NDUFAF1
P4HB ERO1LB
CDH2 CDH4
RPS27A TP63
RCN3 KLHDC5
TGFB1 SDC2
MRPS9 HAP1
SSX5 NFE2
GTF2F2 MED29
HMGB1 CREBBP
PRKACA RYR2

HNRNPH1 YWHAG
BCL2 BID
GADD45G RWDD2B
CLIC3 MAPK15
CDK4 ZNF655
PRPF4 GPHN
THOC5 THOC7
MAP3K7 IKBKAP
STRAP TRAF6
DTNBP1 SYBU
PTP4A3 GBF1
PCNA CDKN1A
RPP38 RPP30
CALCR LRP1
GABBR2 GRASP
HNRNPH1 HNRNPK
DTNB DTNBP1
ESR1 KAT2A
EGFR DYNC1H1
COPS5 WNK1
FYN ARHGAP32
SREBF2SAFB2
TCF3 PDX1
KPNB1 NUP54
PSMA7 PRKAB1
GABARAP RASSF1
SCAMP2 ARIH2
SEPT2 DAZAP2
SMG6 UPF1
USP2 TRAF2
HOXA5 DDIT3
PRKRA TARBP2
BCL2 BAK1
IL1B IL1R2
TRIAP1 TP53
NOD1 MAGED1
MC4R ASIP
SUPT5H ZNF512B
HSPD1 RASA1
EIF2AK2 PPP1CC

RNF183 EWSR1
FOS HNF1A
ARRB1 CSNK2A1
MED22 MED19
SGK1 VARS
STRN CTTNBP2NL
RAN XPO5
RAE1 WDR59
UBE2H RNF38
EIF1B ACTR2
ARR3 GNMT
LRSAM1 MGAT4B
GNAI2 PTPRU
KRT15 C1ORF65
GP9 CRK
C20ORF94 SLX4
NR4A1 PREPL
CKAP4 CLN3
NR1D1 NR1D2
HNRNPH1 SUMO2
SMAD9 DNAJA3
UBQLN4 ZDHHC3
RAN SMURF2
ACTN2 RAVER1
KRT5 APC
LTA TNFRSF14
DHX9 ZMAT3
NR3C1 DAXX
SFN ARHGAP11A
GRINL1A RBM4B
TPM3 TMOD2
AP1G1 SYNRG
NOS1 CAV3
SREBF1 ESR2
ABL1 RAD51
FYN PTK2
HNF1A CDX2
RAB35 C2ORF44
RPA2 ORC2
RPA2 ORC1

CD3E NCK1
RNF167 UBE2D4
KPNA4 NFKB1
LZTR1 TFAP2B
PRRC2A RBF1
RAD51 ATM
DTNB BEGAIN
UCP3 YWHAZ
PIK3R2 FYN
RPS9 PRKAB1
RBBP7 GATAD2A
PLG KNG1
REV1 POLQ
MARK2 PARD6G
GAPDH SLC2A1
A1BG CRISP3
RAN RANGRF
FES HSPA4
MED24 RPAP2
APLP1 C7ORF64
SUPT7L USP22
RNPS1 SNX9
CNOT3 CNOT2
UBE2D2 FBXO7
YWHAQ ADAM22
GPRIN1 GRIN3A
SRF ASCC2
PPP2R1A PPP2CB
CEBPB MEF2D
YWHAQ RAI14
CBFA2T2 GTF2E1
HDAC1 NFIX
APC CGNL1
BCR PTPN1
CDKN1B TSC2
NXPH3 ABL1
MCM5 MCM7
CCR1 STAT3
GRIA1 TANC1
APOL3 PACSIN1

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POLR3A PCBD1
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POU2AF1 SIAH1
PRPF40A CDK13
RANBP10 MEGF10
HDAC4 IKZF3
GYS1 SIRT2
LIMK1 CDC42BPA
NCK2 NPHS1
ERP29 UBQLN4
GCDH RNF32
S100A8 INSL6
HOXC4 SOX10
SKP1 FBXO44
C4BPA PROS1
NR4A1 MATR3
CASP3 BIRC6
MAPK9 HDAC1
USP5 PRKAB1
NGFR TRAF1
PRDX6 HNF4G
CACNB4 REM1
GOLGA4 NDN
SFN SPIRE1
USP1 JUP
APBB1 DIAPH1
C7ORF64 MPHOSPH6
MCL1 BMF
FGB CALR
GAS7 SF1
BCL3 KAT5
RNPS1 RBM8A
MAP1B MAP1A
RARA SKI

NCL NFKBIB
BAI1 MAGI1
RBBP6 UPF3B
ZBTB9 ZFP64
HOXD4 RNPS1
CBX3 ATXN7L2
TERT RPS27A
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CRK SOS2
GJB1 CALM2
PLG SERPINC1
CSF1R PIK3R1
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RPA2 UNC119
EIF2AK2 TYK2
CRK SOS1
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TGFB1 CUL5
DLX5 DLX2
JAG1 POFUT1
SELP FUT4
HDAC4 IKZF2
SEPT2 SEPT11
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MMP2 BCAN
EZR ARHGDIB
ACTA1 TES
EZR ARHGDIA
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TRIM24 PML
USP21 USP20
MLH1 BRIP1
XPC TDG
SMAD9 TOB1
ABLIM1 CALCOCO2
GORASP2 RAD54B
GRB2 PAK2
CSNK2A2 SPIB

ZFP36 CCDC85B
ACVR1B IGSF1
NFKB1 ARHGEF4
POU3F2SOX11
CASP6 TRAF1
ATXN1 VSNL1
WDR5 CHD8
MYC DHCR24
PAEP EEF1A1
PSMA3 TRAF6
MYC SF3B3
GRB2 CBLB
MAGEA11 C20ORF72
DLG2 NLGN3
MYO9BMOBK3
TP53 EEF2
IKBKE GLOD4
ITGB1 ITGA1
UBE2H RNF4
AIRE TRIM28
EFS SH2D3C
TCEA2 DNAJB9
SFN TJP2
AIFM1 RIPK3
SOCS6 ACVR1
PDCD6IP STK24
HDAC4 HDAC9
CCT2 PPP2R2C
ESR1 SP2
FEZ1 FEZ2
RASA1 SPSB1
CUL1 NLK
STAU1 RAC1
IGF1R STAT3
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BRF2 XPO7
NASP ARF6
PIP USPL1
ABCA1 LIMK1
AP1G1 AP2S1

NRXN2 MACF1
KEAP1 FAM46A
RPL23 TAB2
CUL1 RNF7
SMAD7 KAT2B
APAF1 CYCS
KCNMA1 KCNMB1
RHOG ELMOD2
IL2RB GRB2
CBX3 BAP1
BCAR1 TRIP6
UBE2L6 MAP3K1
SMAD2 HECTD3
MAPK6 COPS5
MAP1A DISC1
CRMP1 AGR2
PREP PRKAB1
TLE1 CELF3
RFK DNAJB9
RBX1 CUL7
NR4A1 TMOD3
CARS SUMO2
TP53 TPT1
THRA MED12
TACR2 GPRASP1
PDE6D RAP1A
GBAS OSBPL10
SMARCA4 TMF1
PSMD7 NFKB2
DVL1 VANGL2
RAC3 CIB1
TBL1X TAB2
PCBP1 ACTR6
DYNC1H1 DYNLT1
CANX NDRG1
HIBADH RPS27A
ZNF195 PCBD1
ABL1 POLD1
APP LRP1B
KRT31 DGKB

RMND5B EWSR1
GTF2B NCOA4
PRELP HSPG2
YWHAQ SH3BP4
RELA TUBA1A
IL2RA STAT5B
HEATR1 MAGED1
PAFAH1B3 DDX24
TRIM21 RPS27A
XPOT HDLBP
CFH PTX3
ELANE SERPINF2
CCT3 MAP3K1
DYNC1H1 DYNLL1
NGFR LINGO1
CDK2 UBE2M
XPC ATR
MAP3K8 NFKB2
ACBD6 IKBKG
RAPGEF1 NEDD9
SMAD3 NCOA6
ZNF512B LZTS2
ZNF512B SDF4
C3ORF17 G3BP2
GRIK2 LGALS12
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SART1 RAE1
STXBP1 TUBB2A
HGS GFAP
EIF4A2 HNRNPUL2
GUCY1A2 DLG3
ZNF580 TSC22D4
CCDC59 MOBKL3
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ABL1 CTNND2
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HDAC1 KAT5
PAK2 NFYC

SUMO1 NFKB2
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HDAC2 PADI4
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FIBP CSNK2B
PEA15 PANK4
GRB7 RND1
SYK DUSP3
PRKCA TRIM41
ZNF136 MDFI
HSPA9 TRAF2
RB1 RBBP7
BRF2 DDX20
NEUROD1 RREB1
PDE6D RHOB
NCL NDRG1
EGFR SPARCL1
GNB5 GNGT1
CAV1 DNMT1
YWHAG ZC3H18
DIAPH1RHOC
NPR1 NPPB
NR4A1 ATXN1
CRK TNK2
HOXD4 ASB8
MYO10 SMAD3
LYL1 TCF4
GNB5 GNG3
MAP3K10 SH3RF1
RNF103 UBE2D4
DFFA DFFB
ESR1 HSP90AB1
STC2 ARRB2
TFG C14ORF1
EFEMP2 IL16
APBB1IP EVL
YWHAE FAM110B
CSDE1 GH1
ARHGAP33 RAC1
GBAS MAP1LC3C

SOCS1 ALK
GABARAPL1 ATG10
C2 MASP1
HEXIM1 LARP7
CHD1 HDAC1
TBP TAF1C
OLIG2 SRRM1
TBP TAF1A
LDLR SNX17
RASSF2RASSF3
PAM TSC2
FANCA RPL18
MBP APTX
CCNT1 HNRNPA1
PRDM2 HIST3H3
CDX2 KDM5B
GATA1 MED1
RAD51 RAD54L
POLR2E RUVBL2
SOCS7 SORBS3
FLNA RIPK3
MAPK6 ARHGEF2
NR4A1 TERF1
CDK5 CDK5R1
PPP2R1A PPP2R5C
SMAD4 PAPP2
BCL3 HDAC6
EIF1B ACP1
GRB2 MAP3K1
DVL3 DIDO1
CCT5 PDCL
HRH2 GPRASP2
UBA1 YWHAZ
DISC1 STX18
PFN2 EVL
KRT34 DLG3
TUBB4 SEL1L3
GABRB3 RPS27A
NOC4L TSC22D4
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NEK7 NEK6
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BCL2 MAPK14
CSNK1E DVL3
HMGCR ARHGAP1
PPM1B CDK6
PRPF19 EXOC7
ARID4B SUDS3
MSH2 OTUB1
MARK3 USP21
FLNA PRKACB
MYC SKIV2L
HOXA10 SIRT2
NRP1 FLT1
NPM1 NCL
PIK3R1 INPP4A
AGT MAS1
DNAJC3 EIF2AK3
MYC CDK1
AR PSMC3IP
KCNA4 INADL
AGT PREP
PIP SPI1
STX12 PLDN
STAU1 PABPC1
SMURF1 RNF11
SMARCA4 ING1
LSM3 LSM10
FAS MSN
ELK3 GRB2
TPT1 ATP1A2
EP300 TCF7L2
SMURF1 STRAP
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PPP2R1A MOBKL3
SMARCA5 DNMT3B
PRPF19 SRRM2
COPS2 SIN3A
P4HB PDIA3
GRB2 NR5A1

MCL1 BBC3
SNTB2 PTPRN
CXCL10 VCAN
AXIN1 SH3GL1
CENPA CENPH
UBE2E1 CADPS2
RHOA ARHGEF5
BCAR3 GSPT1
LPXN PHF21A
TFF1 HNRNPA1
MYBL1 NCL
EEA1 RAB22A
ACTN1 MYOZ1
NFE2L2PMF1
COL9A1 MAG
MPZL1 SRC
TBP TAF7
TBP TAF11
TBP TAF13
TBP TAF5
RB1 MAPK14
SMG7 SMG5
HNRNPUL1 PRKAB1
SLC38A1 DGKZ
KCNH4 ID2
FEZ1 TAC3
IRAK1 TRAF4
MAP2K4 MAPK8IP3
UIMC1 BAG5
ACTA1 NRAP
PARP1 EP300
LRPAP1 RANBP2
UBE2N TOPORS
CDC27 CDC16
NSF PTPRJ
CCDC85B USP2
RAB27B CAV1
FOS PNN
FOS TSC22D3
SLC9A3R2 SLC22A9

TP73 AKAP1
RNF20 C20ORF94
HGS MIF4GD
CETN3 UNC119
DLG1 BTRC
PCM1 KIAA0368
HPCAL1 IKBKG
PABPC1 PINX1
ARRB1 CMBL
TRAF1 BIRC2
MYC CDK5RAP2
ETV6 GAB2
ORC3 PTPRJ
CSNK2A1 HSPH1
CACNB4 PTN
KLF8 FHL3
GSPT1 CDKN2A
SMAD3 ESR2
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TRAF1 BIRC3
NCK1 RAPGEF1
VHL PRKCZ
NFASC ABL1
PFKP GSTK1
PICK1 F11R
SDC3 FYN
RPS16 PINX1
USP7 SH3GLB1
TCEA1 GTF2H1
CCT4 WDR16
ADRB3 GNAS
BCL2L1 BCL2A1
ARHGDIA RHOA
MYB TRIM28
E2F3 RB1
HMGB1 NEUROD6
SIX1 CCDC85B
NTN1 NEO1
SPOP DPPA2
NPM1 EPHA1

HOXD4 ZMYND11
EMD SH3GL2
EMD SH3GL3
PDGFRB EIF2AK2
GSTO1 KAT5
AKAP3 GNA13
OGT APC
UBE2D3 POLM
SPRY1 CBL
UBE2I C5ORF25
POLR1B POLR1E
CDK9 HNRNPK
DYSF ANXA1
NEDD8 SENP8
TLE1 ZFP64
MAPK1 RPS27A
CALCOCO2 DAZAP2
BAP1 AHCYL2
MAP3K9 SH3RF1
EIF3F HTR2A
NRAS SMAD4
MAP3K7 TAB2
GABPB2 RYBP
RPS6 RPS6KB2
SMAD9 OTUB1
GNA13 RIC8A
MAPK1 GRB2
LCK CDC25C
MAX GGT7
RAB3B CALM2
RBMX CNBP
AKAP13 ESR2
TLE1 SIX2
VIM TRADD
MAP3K7 CNTN2
YWHAQ EML3
GFI1B ZNRF3
SMAD3 CREBBP
F12 MMP14
ATP5J2 LPP

IL1R1 TOLLIP
BCL3 COPS5
SLC38A1 NET1
S100A1 S100A4
GLUL HIPK1
JUND SMAD4
NFKBIA MAP3K2
IL2RG WWP1
FURIN FLNA
HDAC1 DAXX
CDH5 PARD6G
TNNT1 TNNC1
SOD2 TMEM131
HDLBP SMAD4
TAF6 TAF2
HERC3 UBQLN2
YWHAG TIAM1
EIF3D EIF3L
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CIT RHOA
CIT RND3
PDCD6IP CD2AP
CSNK2A2 MAF1
HMGB1IRF2
HIST1H1A AEBP2
ATXN7 CCDC101
VPS24 TNPO3
DISC1 KIAA1377
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RXRA SMARCD3
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STX11 SNAP25
MYCN YAF2
ZNF24 PTMS
GABARAPL2 TMEM160
IGF1R VAV3
NPM1 GRB7

MAPK10 MAPK8IP3
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MDFI ILF3
CUL5 ASB1
CUL5 ASB4
ORC5 MCM7
YAP1 SLC9A3R2
PTK2 MICAL1
TNFRSF10A RIPK1
FZD9 WNT1
SREBF1RPS27A
POU1F1PITX1
TP53 CAPN1
FCHO1 SMURF1
WEE1 BTRC
FLNA IKBKG
LIG4 ATR
LNX1 ENOX1
SERPINB9 C7ORF64
ADRBK2 CCR5
PIM1 EPHA3
FHL2 PHB2
CSE1L MAPK6
PRSS23 SHMT1
XRCC5 H2AFX
PTK2 RB1CC1
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RPA2 ATR
SOCS1 EGFR
RAB38 SMAD4
GDF9 PABPC4
LTF CDK5RAP3
VPS18 HOOK1
RBFOX2 POLR3D
GRIN2B SYNGAP1
HGS TOM1
ADRBK2 CCR4
CAPS LUC7L2
DVL1 CXXC4
PABPN1 CARM1

SNCA MAP1B
DLGAP1 ABL1
TXN MAP3K5
GRB2 ABI3BP
ACHE PRIMA1
DLG1 DLGAP4
TP53 NFKBIA
DTX3L UBE2W
HNRNPK GRAP2
GUCY1A2 DLG1
SPP1 ABCF3
JAK2 STAT5A
TBRG4 MTMR4
ORC2 MCM8
JAK2 STAT1
CDK1 FOXO1
YWHAG PPFIBP1
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DNM1L FIS1
CHD3 UBA3
PLG NGF
DLGAP3 DLG4
PRKDC CHD1L
GRN TRIB3
SKAP2 HCK
MCM5 SSRP1
NUFIP1 TAF9
SIPA1L1 CEBPE
CDKN2A HUWE1
SSFA2 YWHAE
PPP1R16A FSD1
FN1 COL4A3
HDAC1 CHD4
MAP1B RAE1
HDAC2 APPL1
HAP1 DEFB1
YAP1 TEAD4

CST3 CTSB
BCR YWHAQ
YAP1 TEAD2
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POM121 COL4A3BP
HBXIP KIAA1377
BRCA1 WNT2B
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SMARCB1 CDYL
LAPTM5 GGA3
FBL TUBA3C
PIK3R1 TYRO3
CANX EDEM1
CANX PIGK
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SMAD9 SMAD2
EIF2S1 LYAR
CDH3 CTNNA1
CDH3 CTNNB1
POLR1E DDX20
MAP1B NXF1
HLA-E CALR
GNA15 TTC1
ELANE LPA
USP39 RPL22L1
NRP2 SEMA4F
SF3A2 USP45
KPNB1 MEPCE
BCL2L1 BCL2L12
GOSR2 NAPA
ACTN1 CSRP3
PRKACA GRIA4
NEFL MYO5A
GALNT5 EXT2
NFKB2 DDX21
HIST1H2AL SUPT16H
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RBBP7 BRMS1
TRPT1 TRAF2
ICAM1 ITGAM

MAF1 ARMCX3
U2AF2 SRSF1
RB1 CDKN1A
KRT1 CALB2
APOA2 APOA1BP
ITGAV ANGPTL3
CIAO1 PSMB1
CREB1 KAT5
PRKD1 KIDINS220
HDAC2 RCOR1
RBMX CCDC33
KNG1 MEP1A
XIAP CASP8
ICAM1 CHRM1
KBTBD7 MAP1LC3B
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LMNB1 YWHAZ
CTNNB1 GRIK2
SOCS1 IRS1
FMNL1 XRCC6
LYL1 TCF3
SMARCA4 BAZ1B
ACAA1 MAPK14
KDM5B VGLL3
PLXNB1 MST1R
DNMT1 MKNK2
AR GTF2H1
MAP3K7 RPS3
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MLL CTR9
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WBP2 WWP1
RHOA AKAP13
USP11 WBP5
YWHAQ YAP1
TRIM28ZNF350
SOCS3 JAK3
CDK8 MED30

CAST HTRA1
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TBP HAP1
GTF2F1 SRRM1
GADD45B PPARD
PFKM SUMO2
POLE3 CHRAC1
SRF HMGA1
HDAC2 HDAC7
VCP SUMO4
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TOM1L1 C3ORF63
TGOLN2 AP3M1
ECHS1 TRIM63
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BMP2 TGFB2
RIPK1 TUBA3C
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STAM2 L3MBTL2
DPPA4 SH3GL3
SMAD4 EWSR1
KPNA3 USP42
XAB2 PPIE
KCTD12 TRAF6
APEX2 EFEMP2
BCL6 BCOR
GTF2B CKLF
AIMP1 FTSJ1
USP2 UBC
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PTPN11 GAB3
MX1 TRPC7
GEMIN4 ILK
MKRN3 TSG101
PAPOLA CPSF3
KEAP1 PGAM5
ACTA1 USP25
HAP1 INSL6
MYC RB1
MYCBPAP MYCBP

DAND5 ATF7IP
TOMM20 HAP1
XPO1 YWHAZ
ABL1 CCKBR
UBE2U TRIM54
OTUD7B PARK7
MYST2 HOOK2
CEP70 UTP14A
NGFR TRAF3
MET PTPRB
PDCD6IP PHLDA3
GATA3 HDAC4
UMPS DLST
SKP2 SPDYA
POLR1B BAZ1B
REV1 POLDIP2
IPO5 RAN
MAP2 GPRIN1
PLK1 OSBPL6
MSN ELF3
DSG1 RUVBL1
PDGFRB GRB2
SUMO1 HSF1
UBC INGX
NEK6 RUVBL2
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GATA4 KLF13
AFTPH GGA1
IPO5 RPL23
PRPF6 MDM2
CYP27B1 RXRB
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PDGFRB RPS27A
MYB SKP2
TERF1 FANCD2
SMURF1 TRAF6
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YWHAG CDR2L
TNNT1 TRIM63
SUCLG1 SUCLG2

DIDO1 WWP1
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SLC9A3R2 SIAH1
DLG1 SLC25A16
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UBTF CDK2
DNM2 SNX9
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SYK MS4A2
EIF3E EPAS1
CEBPB MAPK3
EIF1B SOAT1
BECN1 AFG3L2
GABARAPL1 ATG5
PPARD NCOR2
FASTKD2 PHLDA3
ERN1 PSEN1
INADL PARD3
UBE2M RNF167
HDAC2 IKZF2
CDKN2B ZBTB17
BCL2 DYNLL1
MED6 MED30
GRB2 MTA1
PARP1 BCL2
TNIP1 NFKB2
CCT5 MAP3K1
PDE4DIP UBE2J2
SMAD2 RNPC3
TRAPPC3 C5ORF44
SREBF1ID3
XRCC6 SERPINB9
NPM1 LYAR
DYNLL1 TUBA3C
HDAC2 IKZF3
A2M AMBP
BUB1 ARIH2
PSMB1 HLA-B
TPR GTF2E2
TEAD4 VGLL1

ITGB3BP ABCF1
SMAD2 RNF111
SNRPB2 SNRNP40
TBP TRIP4
UBE2D1 TRAF7
TBP NFKBIB
MLL2 ASH2L
LMNA EMD
HSP90AB1 MAP3K1
ELANE GRN
PREP TRAF6
ERC2 PCLO
TRAF2 UBQLN2
RBMX SORBS3
RHOA NGEF
SLC24A1 FYN
AHSA1 GCH1
GABARAP PGS1
CD47 SIRPG
XPO1 EZH2
CAPNS1 LRRCC1
UBE2Q1 IRF2BPL
AP1G1 RAB5A
HNRNPA1 FEN1
LMNB2 PLCB1
RIPK2 HSP90AA1
SOX10 SUMO2
HOXB6 EP300
HAND1 PRKCA
CDC45 POLA1
PTGDS HK3
MAP3K10 ZMYM2
UBE2N PINX1
EPPK1 ARF6
SMARCC1 INGX
SHC3 ALK
PTGDS HK2
AIFM1 TSC22D4
PRKACA NDRG1
TNF FAS

PCBD1 RPS24
INSR PTPN6
PDGFRA CBL
TRAF2 AFF4
INSR SHC1
PTPN1 TYK2
TRAF2 TBK1
ALB UIMC1
NSF STX4
ARIH2 SLC1A6
RPS6 MAP3K14
MYC POLE
UBE2U RBCK1
RAF1 PRKCZ
OPA1 WNK1
SRC NKX2-1
FOXP1 FOXP2
CASP3 PLA2G4A
USP9X ITCH
MEF2C SAMM50
NFKBIA NFKBIB
USP7 RUVBL2
EGFR GRB7
DLG1 ERBB4
ERBB3 ODF2L
USP4 PRPF31
MLLT3 APPBP2
SRC GNS
TRAF2 IPO11
PSMA7 POMP
UBE2I CHMP1A
ZBED1 GPN1
GATA1 STAT3
ZFP64 ZNF70
VIM PIAS4
HSPA1B SNCA
SRC CELSR2
FOXO1 STK4
NFKBIA BTRC
TCHP NME7

UBC WWP1
YWHAQ UCP3
ACTA1 SORBS1
CCNG1 CDK5
DDX5 MAP3K14
EGFR GRB14
SFN PPFIBP2
HIST1H1C SUZ12
NR2C2 CDC37
USPL1 KIAA0947
SMAD1 RAB2B
ZNF273 SP8
TBL3 USP36
MMP3 CCL8
POLR1E SUN2
KDEL1 BZW1
ACVR1 VEPH1
VIM KRT20
MRE11A MSH6
GRB2 RBBP6
SGOL1 INCENP
NFKB1 NFKBIZ
NFKBIB TIMM50
GFAP POM121
DAND5 CTBP1
UBE2D2 RNF11
UBE2Q1 RNF7
PLSCR1 SF1
TAF1 EWSR1
NRAS GRB10
MTA1 HDAC2
ZNF440 KRTAP4-12
LAPTM5 HUWE1
YWHAQ KIAA1409
HNRNPU SF3A2
PTPN1 TRPV6
FSHR ARR3
PSMD6 ARMC6
ITGA5 ARHGAP5
CLDN1 TJP1

ARHGDI1 CASP10
DLGAP1 APC
HDAC2 PHB2
GNGT1 PLEKHB1
TNFRSF1B HSPA1L
EPS8 USP6NL
MAPK14 KIAA1949
MAP3K7 FOS
COL4A1 APP
ZNF83 SMAD3
SNW1 PPIL1
BIRC2 RIPK1
RELB NFKB2
HNRNPD SREK1
GRB2 GRB10
MRE11A EP300
SMAD4 USP9X
PDGFRB PTPRJ
EWSR1 RAB37
YWHAG ZC3HC1
PMF1 COPS7B
RPS14 PINX1
PRPSAP1 TNIK
PSMD11 TP53
CDKN1A RAB1A
GBP2 TFG
ABL1 DNM3
PFKP PRKAB1
PIAS1 STAB2
DVL2 BAHD1
HMGA1EWSR1
SSRP1 ROBO2
ORC1 CDT1
RPS9 TRAF6
HIST1H3J CALCOCO1
ITGB2 PRKCD
PAK7 HIGD1A
SLC9A3R1 OPRK1
UBE2U PCGF6
TP53 FAM173A

NOC4L GSTK1
EFTUD2 SNRNP40
MAPK8IP2 FGF13
HNF4A NRIP1
MMP3 CCL7
GATA1 CEBPE
PLSCR1GPRIN2
CIITA KAT2B
GRB2 CGNL1
RANGAP1 RAN
TMPO CLN3
GPS2 HDAC1
DHH PTCH1
YWHAH MARK4
PRNP CIRBP
HRAS GPSM2
GHR PTPN11
CAPNS1 CAPN2
BIN1 SYNJ1
SLC25A5 RIPK1
ATP2B4RASSF1
TAF4 GTF2A1
PINX1 SSR3
RHO ADRBK1
APP COL25A1
UBA1 TSSC4
XPO1 DHX9
MGEA5MDM2
TNK2 MERTK
SMAD3 PAX8
NRAS RAP1GDS1
SRCAP CREBBP
NCK1 ABL2
KIF23 FYCO1
TAF1D PPAN
H2AFX SMARCA2
PIK3R1 TRAT1
H2AFX SMARCA4
TAF4 GTF2A2
RXRA PPARA

WNT5A ROR2
WNT5A ROR1
CDC25A MAPKAPK2
ZFYVE9 SVEP1
MAGEC1 ROCK2
NACA ZHX1
TERF1 TINF2
CTNNB1 SKP1
CTPS PINX1
COPS6 SMPD3
ERBB2 TOB1
MDF1 C18ORF45
CDC25B KAT2B
MED13L MED29
CBX4 MED9
MED12 PPARGC1A
PSMD1 PAAF1
TOMM40 TOMM22
SETDB1 BRIX1
UBE2D2 ZNRF1
GOLGA4 MACF1
SMAD1 ZCCHC12
FGF4 FGFR4
SELP SNX17
CASP3 BCAR1
PTPN11 CSF3R
HOXC9 ZNF384
TP53 WT1
XRCC6 PRKDC
EGFR DNAJC4
PBRM1 SMARCC1
CENPA CBX8
IDH3A DMWD
SMAD3 RASD2
ZFYVE9 FHL2
TFAP2A RB1
AXIN1 CSNK1A1
H2AFX BRCA2
OTUD6B RPF2
ACTN1 CLIC5

FANCE FANCF
RAF1 PRKCD
PSMD10 PSMC5
DNMT3L DNMT3A
PPARG NFE2L2
PSMF1 SMCR7
ATXN1 WDFY3
NPAS2 PLEKHA5
UBE2D3 MUL1
MORF4L2 SIN3A
RBFOX2 NR2E3
MAP2 MDM2
ITGB1 ITGA6
GRB2 INSL6
VIM UPP1
POP7 ATG12
HERC3 UBQLN1
ZNF143 CHD8
MAPK1 GAB2
SSSCA1HNRNPL
SFN FAM117B
AIRE SSRP1
ZBTB3 PHF15
TP53 EIF2AK2
ANXA2 TRAF6
SLPI KLK3
BCR GRAP
REV3L REV1
ERO1LB ERP44
COPE COPG2
AR CCND1
THRB SMAP2
RGS2 WDR74
SMAD9 RRBP1
ETS1 RUNX2
GMPS TCEAL1
WAS FNBP1
ARPC2 ZCRB1
PGRMC1 TIMP2
PAFAH1B1 DCTN2

ATXN1 TOLLIP
RAB27A UNC13D
MMP14 KISS1
PPAP2CUNC119
APC2 AXIN2
YWHAG PRKCQ
NOS1 SNTA1
UBE2L3 RNF216
INSR PRKCA
EIF2B5 EIF2B1
TP73 UBE2I
DLGAP1 GRB2
CFLAR CASP8
USP5 RPS27A
WASL WIPF2
ULK2 GABARAPL1
GH1 PTGES3
MTOR PREX2
FGFR4 STAT1
DUT SPATA2
KDM1AGDF9
CASP3 GOLGA3
MID1 UBE2E2
MYF6 CSRP3
VWF ADAMTS13
SDCBP ULK1
HIST1H4I DTX3L
HNRNPF SRRM2
HSPA1B WDR16
TRAF3 NFKB2
PIN1 DDX17
SUMO1 RAD54L2
HDAC1 BCOR
CRMP1 FTH1
CCDC130 ZNF24
SNRPA SF3A2
ITGB1 LGALS1
EFNA1 SUMO2
STAT1 IL27RA
CAD RELB

DTX3 UBE2D4
RQCD1 CNOT2
PPIB PINX1
DGKZ GRINL1A
ZNF580 RAD54B
ANXA6 CDC73
NFE2 MAFF
NFKB1 LYZ
GNAO1 ADRA2C
CAPN3 FLNC
SLC25A6 MAX
MYBL2 RPS27A
PRKCZ PDLIM7
APP CASP8
EIF3F SRRM2
USP11 MPHOSPH9
YWHAH NEDD4L
PSIP1 FBXW7
TLE1 SIRT1
DOK2 TEK
SORBS3 MAPK3
MERTKBMPR2
LYN FOLR1
NTRK1 PTPN12
CARS PACSIN1
TCF7L2 NLK
CECR2 UXT
NDUFB6 SNCA
WIZ EHMT1
CIC CENPJ
FASLG SH3RF2
HOOK2 APEX2
PPP2R5E RACGAP1
ATAT1 SMARCA2
YWHAG TBC1D1
F3 FLNA
KIAA0776 CDK5RAP3
DNAJB1 IKBKE
CHGB POLD1
OPRD1 KLHL3

PLSCR1 VASP
GBP2 LSM2
GTF2E2 GTF2H1
MAPK1 ERF
WASL FYN
SEC24CMIA3
SERPINB2 RBL2
TUBB ARL8B
RBM25 SRRM1
SHMT2 GNAS
PARK2 HSPA1B
ESR1 NCOA4
PCBP1 TRAF6
SUMO1 FAM179B
DCAF5 DDA1
CIITA HDAC2
BTF3 ARF6
SUMO1 KIAA0284
ITGB5 FLNA
BRCA2 RAD23A
UQCRQERCC8
GADD45GIP1 EXOSC4
ALDOASUMO4
SLC3A2SLC7A10
S1PR2 GNAI1
KIAA0415 MDFI
UBE2H MARCH10
FAHD1 EXOSC4
PLA2G16 UBQLN4
PIK3R1 VPS13A
MCC UBXN1
MYH10 IKBKE
RADIL SFI1
EFEMP2 AQP1
PRKCA TEP1
ZNF91 NDEL1
HSP90AA1 ZAP70
CA12 CUX1
MAPK1 METAP2
CTNNB1 KAT2B

NFKBIE CALM2
CTNNB1 KAT2A
MCC RASAL2
GAP43 PLCD1
WASL LCK
CTTNBP2 PDCD10
IFI6 CIB1
EIF3J MAGED1
TAF1 ASF1A
AFF4 TRAF2
CACNA1B APBA1
DGKZ GRINL1A
FYN TRAT1
SLC25A37 TCF12
TSPAN3 EWSR1
UBC MDM2
EGFR PTPRB
YWHAH NEK1
MED26 MED11
CASK RAB3A
ADAR HDLBP
FBL TUBB1
SETD1A RBBP5
CTNNB1 PTPRU
ZEB1 CTBP1
SYT1 STON2
ANGPTL1 TEK
SQSTM1 INA
DLL1 POFUT1
KIF11 RPAP1
POLR2I MED10
NPR1 PRKG1
CTBP1 KAT2A
ATG9A SRCAP
CCBP2 CCL11
EML1 ISG20L2
CCT8 STK24
FLNA RHOA
LIG1 CDK2
SFN PDZD11

SRSF5 DYRK1A
SMNDC1 GNL3
MAPK14 ZFYVE20
IGFBP3 RXRA
HNRNPK UBE2I
MYST2 ING4
RAF1 TSC22D3
RUNX1 HDAC1
RECQL5 CUX1
LAMB2 PLEKHA5
LSM3 XPC
SMARCC1 WWOX
RAC1 ARHGAP32
INSR DOK5
LYN CBL
TAF10 TADA1
CS USP11
SUMO1 PML
MLH1 PSD3
GDF9 BMPR2
DDB1 DDB2
RAC1 CDC42SE2
DVL2 AXIN1
STAMBP SMAD2
VIM SUMO3
CD8A LGALS1
RAC1 CDC42SE1
CTBP1 KAT2B
LNK1 KCTD13
RHOA SPRED2
MAPK10 CDK5
SERPINH1 ESR2
HIST1H4I ERCC6
LYN CD19
NCOA7 MAP1LC3B
GBAS MAP1LC3A
WDR62 RALY
OGT TRAK1
KRTAP4-12 NPDC1
SMAD4 RMND5B

PCBD1 DENND4A
PRRC2A IFT88
HERC2 USP42
MAP2K5 CDC42BPB
C8ORF41 RPAP3
TCL1A AKT3
NCL PCBD1
ATP2A2 PLN
SCNN1B ITCH
UBE2B UBR2
UBE2B UBR1
MED13L MED9
TP73 GNB2L1
RAC1 TOPORS
CASP3 DCC
GABARAP FYCO1
IL22RA2 IL22
CD22 SYK
AR SMAD1
EZR VCAM1
MMP2 IGFBP3
IGF1R SHC1
MAP3K1 UBE2W
IL1R1 IRAK1
EED HIST1H1C
YWHAG KLC3
RAP1A RHEB
MMP2 LGALS3
PAX5 EBF1
CALM2 TRAF2
CALCA CALCRL
POLR2G USP44
YWHAB PHB
TCEAL1 TCEB1
MDM2 EP300
ME2 RAB11A
RHOA NET1
VDAC1 DYNLT3
STAMBPL1 OTUB1
SF3B3 TAF9

DAO DAOA
PPP1CAPHACTR3
MED6 MED15
GBP2 KLHL20
SON SNIP1
NOL3 PACSIN3
PPP5C GNA12
NR3C1 FKBP4
NOL8 RRAGA
REXO2 TRAF6
PAK2 SH3RF3
PSMB1 TNFRSF14
CCNA1 STOML2
PFN2 IK
SOS2 COPS5
CCNK RFX6
EMD DDB2
CLDN5 CLDN3
GABARAPL2 RASSF1
VHL ARF6
PPP1CAPPP1R13B
RB1 TMPO
TGFB1I1 VHL
CTNNB1 CREBBP
EGFR CD44
YWHAG PHLDB2
PMF1 MED31
CALM2 DLG1
MAPK1 TOB1
DDB1 DCAF5
CSF1R THOC5
HRAS ARHGEF1
SGK1 DDX6
FLT1 CTNNB1
SH3D19SH3YL1
RB1 TMPO
SRSF1 ZRSR2
TNNI2 ACTB
EPRS RPF1
RRM1 YWHAG

MAP4K4 MDM2
SYT1 STX4
SIX3 AES
EWSR1 YY1AP1
FLT1 PLCG1
ACTB SRCIN1
DIAPH2CDC42
MED16 MED19
SRCAP KAT2B
MGRN1UBE2I
UBC MALT1
F10 PROS1
PIN1 ZNF828
BRD4 MED1
ATN1 KRTAP4-12
IL6ST PRKCD
TP73 GAS8
S100A9 USF2
SNCA BCL2L1
DNAJA1 RIPK3
RAB5A RAB7A
RAB5A RAB5C
CHD4 HDAC2
BRD4 CRK
SEPHS1 C14ORF1
VIM TNFRSF14
VHL ATP5J2
PXN ASAP1
DLG4 DLG2
IFNAR1 FANCC
PLK1 C20ORF94
H2AFX YWHAZ
RAB11A IKBKE
MAPK3 DUSP1
CD72 PTPN6
RASGRF2 EPPK1
AR NCOA1
PHGDH MAP3K3
BTRC NFKB2
CPSF1 TAF12

ANK2 SIGMAR1
CDC45 ORC3
ZFP36 UPF2
RFC3 FAN1
SH2B2 JAK2
CDC25B CREBBP
ARAF PBK
FRA10AC1 RP4-788L13.1
TAF10 PHF21A
DLST TUBB2A
APP TM2D1
RPS6KA5 STAT3
NASP HIST1H1A
CDK1 CREM
NUP107AHCTF1
COPS2 CUL5
PIK3R2 ABI1
SMAD7 TGFBR2
SOS1 EPS8L1
RARG ITGB1BP2
ACTB TANC1
AIRE HIST1H2BO
CD2 CD58
MCC KATNAL2
CFTR DNAJC5
PAFAH1B3 PLEKHM1
GNAS SOAT2
RFC3 USP20
FOXO3 BRCA1
NEFM STXBP1
CSNK2A1 PACS1
GNAI2 DRD2
JUND MAPK3
FAM107A HOOK2
NCKIPSD BAIAP2
YWHAG USP37
HDAC1 MBTPS1
ZBED1 GPSM1
DAO ABP1
BRD4 NCK1

TOM1L1 PDPN
SNCA BAX
RPS27A NEDD8
SKI RPS27A
PRKCA KCNE4
VBP1 PAN2
HSPE1 FBXO11
CDC25B KRT35
FGR DOK1
DEDD GTF3C1
APP KLK6
MCF2 GNA13
PPP2CA PPP2R2C
EIF1AX IKBKG
TFAM TNIK
GPS1 COPS5
APP APBB2
KIF1B INADL
PRPF40A CAP2
PRKACA CSK
PARK2 RGS2
IFITM2 PTCD3
TNFRSF14 FAM113A
BCL2 PPP2CA
SNX2 PDGFRA
IRF2 CSNK2A1
ERBB2IP PICK1
PRKD3 IKBKG
DYNC1H1 DYNLRB1
IRAK2 SMURF1
KCNQ1 AKAP9
LYZ CNBP
ARAF VCPIP1
PPP1R12A PTPRJ
UBE2G1 RBCK1
NMI TUBA3C
CASP3 PPP3CA
ATG12 TGM3
FANCD2 TRAF6
ESR1 CDC25B

HSP90AA1 STIP1
GRB2 SHKBP1
AP1G1 AP2M1
CD2 CD53
UNC119 FKBPL
PPARGC1B ZFP64
NUDT11 TRAF6
MYBL1 HIPK2
CUL4B WDR76
GLUL PIAS3
PABPC1 PRMT6
TRIO RHOA
SPRY2 EGFR
PRC1 CDK2
GORASP1 PRKD2
UBE2E1 RFWD3
SKP1 GPS1
STUB1 MAP3K2
IGFBP4 PAPP
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FNBP1 DAAM1
TP73 DNAJB6
BMPR1B BMPR1A
BMPR1B TGFBR1
HIST1H1C WDR5
DAXX RASSF1
CASP4 DCTN1
PAX3 SOX8
RPS27A STK11
NCBP2 EIF5
CIAO1 USP11
NFKBIA IKBKE
RNF40 RB1
MCC RAB21
EIF5B SMAD2
XPO1 ADAR
CSTF3 CDC73
WIPF1 PACSIN2
CDH15 CDH9
SSH1 CFL2

CDH15 CDH7
PTP4A3 AIFM1
DLX2 NCOA2
ABHD16A IFITM1
MAP7D1 COPS6
FANCA HPRT1
SNAP23YWHAG
UQCRC1 RTN4
APC NUP98
CBX1 H3F3B
WNT2 SFRP1
PTPRC NSF
IGF2R AGA
EEF1A1 STMN2
HIST3H3 ASF1B
PTP4A3 ATP1A4
EMD SLC7A9
HLA-F LILRB1
BAG6 SETDB1
RAB3GAP1 DMXL2
TNFAIP3 YWHAZ
MET PIK3R1
NOS1 CTBP1
USP19 IARS
MAP4K4 RAP2A
MNAT1 TSC1
ACTB MDM2
YWHAQ KANK1
SKIL SVEP1
H3F3B SSRP1
APC CSNK1E
RHOA SRGAP1
FOS MAZ
SFPQ EXOSC5
GOLGB1 GORASP2
IFT20 ABI2
E2F2 RYBP
GPR37 HSPA1B
AKAP7 MEPCE
DEDD CASP10

CLTA SMAD2
CTLA4 TXK
CFTR GOPC
NCK1 WAS
CLN3 IMMT
EHMT2 MED23
INPP5D CSF3R
EMD SPTAN1
FNNTA CENPF
MDM2 FAM171A1
PSMD14 PLEKHB2
IRS4 RELA
VCP UBE4A
MAP1B RASSF5
MYO1C USP20
HCK SF3B3
PSEN2 FLNB
SETDB1 GIPC2
GARS ELF3
GH1 EIF3L
PRMT5 JAK1
MARK3 CDC25C
LYPLA2 MED31
CCND1 RBL2
POLA2 FGFR3
FBXW5 KRTAP4-12
ITGAV CD47
OCLN SMURF1
IPO4 GSTK1
PARK2 UBE2J1
CHN1 GTF3C1
GRB10 MEGF10
SYMPK GSTK1
ETV4 EP300
TUBA4A RTN4
SCT MEP1B
CDKN1A STAT3
MCC NUDT5
CTNND1 PSEN1
CD2BP2 P4HB

KRT32 CDK12
VIM HMG20B
CTNNB1 EP400
ZNF609 ATXN1
HSPA5 RIPK1
SPR YWHAZ
PMF1 GIT1
SNRPA SFPQ
STAT3 IFNAR2
PTPN1 LTK
SRC ISG20L2
ATG10 ATG4B
THBS1 COL7A1
TP53 RAD51
NELL1 GFI1B
GEMIN4 MAP3K1
RHO RPS27A
TAF5 TAF9
PSG4 SMAD4
AK1 FHL2
KRT82 LYAR
TP73 SUMO1
C1ORF65 C1ORF190
PPP1R13B CDC5L
XPO4 GSTK1
PMEPA1 UBQLN4
ZNF225 PFDN5
TP53 WDR33
PAFAH1B1 HSPH1
BRCA1 MRE11A
BAG6 DPT
GRB2 RDH11
GRB2 NCKIPSD
MEF2D SRFBP1
RUNX2 STUB1
DRP2 DAG1
PARK2 LIMK1
CHEK2 STRAP
GH1 BTRC
WNK1 MAP3K2

CLTC STAMBPL1
MLLT10 DOT1L
ESR1 CUL4B
FLOT1 ARG1
NFKB2 DYNC1H1
COPS2 UIMC1
CLIC3 DNMI
TRAPPC2 JOSD2
ERN1 TRAF2
CDH15 BOC
FOS RNF20
RGS20 FAF2
ERBB2 NRG1
MYC EP400
HSPA4L TCEAL1
CD28 PLCG1
MAPT PIN1
TARBP2 TRAF4
PBX2 SKIV2L2
SCT MEP1A
CTNNB1 RAB8B
RPF1 HNRNPK
SQSTM1 NTRK3
SGK1 VCP
TCEB2 TCEB3B
PSMD4 PSMD2
EFEMP2 FAM115A
POU2F1PBX1
SUMO4 STRAP
ZNF208 SRY
MDM2 RYBP
SGSM2 CHD3
ARHGAP1 BNIP2
GNAO1 RGS19
FLOT1 APP
GNAO1 RGS4
LHCGR CANX
LGALS1 GEMIN4
ACAN MMP14
DPYSL2 DISC1

SH3BP5MAPK9
SH3BP5MAPK8
SMAD4 FBXO34
SNRPA RNPS1
TP53 SMARCC1
MBD4 CSNK2B
GATA2 MED1
TP53 SMARCD2
KALRN COIL
GFM1 SMURF2
GNMT NIF3L1
TAF4 KAT2A
PHB2 NUP205
AFP HLA-B
USP8 STAM
LMNB2 PRKCD
CRK GAB1
MS4A1 CD40
ITGA4 PTK2
GRB2 RIN3
PRKDC RBBP8
GRB2 SMARCC2
CSF2RB IL5RA
CALM2 TFCP2
GZMB XRCC4
POU2F1HMGA1
HSPA5 H2AFX
GLI2 STK36
SNRPE SRRM1
PRRC2A EIF3E
UBE2N MARCH5
GRAP2 SOS2
CBL ITSN1
KCNQ1 KCNE4
METAP2 CDC42
TRAF3IP1 DISC1
HSP90AA1 QARS
ARHGDI1 NEDD4L
GNAO1 RGS7
PCMT1 IKBKE

CSK DOK1
TUBB4 RELA
PRKCB SPTAN1
VHL RAB11A
PPP4C RPAP1
EN2 FOXA2
HDAC4 FOXP3
IKBKE XPO5
EIF1B CBR1
IKBKE CACYBP
DAND5 SIN3A
HNRNPA2B1 CSNK2A1
IKBKB TIMM50
SOCS6 ACTL7A
SRI CACNA1S
ZBTB43TRAF2
TRIM63GMEB1
RAF1 MAP3K5
MCM5 PRKAB1
GH1 ANXA2
MYO9BARFGEF1
POLR2H POLR2K
JUND MAPK8
PIAS1 SERBP1
TOP2A PRKCA
ANKRD1 MYPN
COIL HABP4
SMARCB1 CHD7
POLA2 XPNPEP1
JUND MAPK9
SLC25A5 NFKB1
SHC1 CBLB
PTP4A3PDCD6IP
HTT NBR1
HSPE1 ILK
HDAC3 ESR1
U2AF2 ZRSR2
STAMBP TRIP13
SMNDC1 WWC3
RAN SMARCB1

RXRA COPS2
MOAP1 RASSF1
PLCB1 MACF1
TACC1 YEATS4
PIK3R1 ALS2CR12
F10 MGST3
DNMT1 HDAC1
SOD2 KIAA1549
GLI3 ZIC1
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ITGB1 CD151
ZMIZ2 SMARCE1
FOXO3 FOXG1
DDX19B KLHDC2
PSMD6 PAAF1
H2AFX EEF1A1
INPP5D GAB2
KRT77 NFKBIL1
BCAR3 BCAR1
MOAP1 UBQLN4
ENG BMP7
SRSF11 SMAD2
CDKN1B TRAF2
MAP3K5 MAPK8IP3
KCNA4 DLG2
PRELP FBLN2
CDC5L CRNKL1
HSPE1 UNC119
POLR1C TAF1D
AQP1 ADAMTSL4
U2AF2 SF1
UBE2D3 UBE4A
GRIN2D FUS
TP53 COPS5
VHL POLR2G
COIL C1QBP
MAGEB2 SRRM2
TADA3 USP5
LPXN PTK2B
CASP3 CDC42

COPS6 DTL
SRC SYK
CDK8 MED8
ZNF142 CHMP5
CDH18 CDH9
FOXO3 EP300
MED24 THRA
ABCC9 KCNJ11
RB1CC1 POLR1E
TNFRSF1B CAD
IFNA2 IFNAR1
MTOR AKT1S1
ATF6 ATF6B
HIST1H1B H3F3B
PFDN4 PFDN2
BMPR1A TGFBRAP1
CLCN3 GOPC
THBS1 CTSG
DCTD NIF3L1
GRIN2A DLG1
FN1 COL4A4
FGFR2 FGF9
STK4 MAP1LC3A
VCP FBXO6
USHBP1 NOC4L
TP73 HMGB1
EZR CDK5
TPST2 CMKLR1
PCNA XPC
HP ITGAM
PGK1 SUMO4
SYNJ2BP LRP8
KCTD13 VTA1
MED6 SMAD3
PSMB4 PLK1
PPAP2BSHC1
MYC CDK6
POLR2G EWSR1
KCNH1 KCNC1
BRCA1 SUMO2

VCP IKBKE
KCNQ1 GRB2
ZFYVE9 SUMF2
HIST1H4I TAF1A
MEF2C VGLL2
SELE PTK2
VGF GRB2
SOD1 PPP3CA
PDGFA PDGFRA
DDB1 DCAF17
TRAPPC6A HOXA1
DLG3 SEMA4C
SMAD9 PNPLA2
MCC STOML2
EIF4E2 KRT20
BCAR3 NASP
BRCA1 LMO4
GRB2 TJP1
GH1 CAPZB
MLH1 KPNB1
TAF7 TAF15
HSP90AB1 SPTAN1
CDK18 SEC23A
COPB2 PRKCE
HSPB1 MME
HIST2H2BE TNPO1
FGFR1 FRS2
DNAJA3 MAP3K3
YAP1 ERBB4
EPM2A HSPA5
MAPK13 MAPK8IP2
MCM2 PLK1
POLR2C INTS1
LMNB1 TMPO
LMNB1 TMPO
MCM2 CDC6
ITGB7 GULP1
LGALS4 RRAS2
PARP1 E2F1
PRAM1 MBD1

RAC1 ARHGEF4
PCM1 ABI2
MAP3K7 SMAD3
RPA2 ATM
GABPA CREBBP
RNPS1 DDX24
HLA-C RHPN2
EDA2R TRAF6
THBS1 CD36
APC MYO10
CUL4A POC1B
RPS27A SMAD1
RPS27A SMAD2
WNK1 RPH3A
CALM2 MAP3K12
FOS CSNK2A1
MYST3 ING5
MARK2 USP21
BCAS2 MCC
GSK3B KRBA1
COMMD7 COMMD1
STK4 SAV1
SSSCA1 CCNH
SRSF4 SRPK1
PLAT CKAP4
PRPF4B KLF13
SHC1 CALCOCO2
CD40 UGGT1
PSEN2 APH1B
JARID2 EZH2
CA2 HSPD1
FASLG EPS8L3
PRKCZ PARD6A
KRT74 ALK
MAP3K7 PPM1B
GRB2 RAPGEF1
SERBP1 PIAS3
TUBB2A RPA2
GORAB SCYL1
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EIF4E MAPKAPK5
HERC3 HERC6
CTSA LAMP2
VCP WRN
PAFAH1B3 MED31
SNAP29VAMP7
TEK IKBKG
PSEN2 CIB1
KLF4 TP53
FLNB FBLIM1
DVL1 DYNLT1
TP53 BRF1
HTT CREBBP
TPM2 ADRBK1
TP53 KAT5
MCC RPS14
MAP4K1 BLNK
DAP3 CNBP
HTT SYMPK
PRKCB TOP2A
PRKCA BTG2
REPS2 ASAP1
ADORA2B DCC
AKAP9 ACTR3B
IL4R SHC1
FASLG BID
NUDT21 HDAC1
PIAS2 CDKN2A
IL4R PTPN6
GTF2E1 AES
MKI67 SUMO2
SUMO1 RWDD3
PPL PAK2
NXPH3 NCK1
CDC25B DOCK2
TRAF1 TICAM1
TP53 SP3
NFYB HDAC4
ORC4 DBF4
BCAR3 RTN3

LBR AKAP8L
SHC1 PAK1
SYK PAG1
RAD21 STAG2
CGNL1 WNK1
HLA-C SARS
TBP SIN3A
PCBP3 RNPS1
GAPDH PRKG1
GNAQ RIC8A
SERPINE2 COL4A6
FOXK1 AMOT
HDAC1 PHF21A
ILK MMS19
CRK ATXN1
CCND1 HDAC2
TOM1L1 TOLLIP
APC NCKAP5L
IPO4 PHLDA3
MED25 CREBBP
APC NUP153
APC RANBP2
GH1 STRAP
MARCKSL1 DCTN2
ATXN1 ATXN2
CRADD C14ORF1
RELA SETD7
HTT KAT2B
LCP2 BLNK
RPF1 CPSF1
VIM CREB1
CTSD ATP6V0A1
EPHB2 CRK
TGFB1 LAMB1
FBXW7 NFKB2
ETHE1 INSL6
GHR PTPN1
PARK2 SNCAIP
LUC7L3 SRSF1
HMGB2 POU3F1

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LALBA HIST2H2BE
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IGF1 NOV
APC ZSWIM6
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FHL2 E2F4
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NR5A2 NPPA
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MCL1 USP9X
ACTG1 CFL2
EPPK1 SRRM2
INPPL1 CSF1R
PTPN11 NTRK2
JAK2 TEC
SETDB1 DNMT3A
LPHN1 PLCG1
PSIP1 DAND5
HDAC4 NFKB2
PGRMC1 SFXN1
CD46 DLG4
RORA COPS5
ANXA2 MAP3K4
STAM2 USP8
MAML3 NOTCH4
ESR2 MED10
ENAH GPHN
VCP SH2D2A
RBBP9 RB1
BCR GRB10
CTNNB1 L3MBTL3
APC BTRC

ORC5 CDC6
MEN1 POLR2B
TUBB RBBP5
ZNF35 CDC5L
SIX3 PAX6
SCNN1G RPS27A
COL3A1 DDR1
GNPDA1 EWSR1
FKBP4 SH3GLB2
GNAQ PLCB1
APOE ST13
RPL35 TRAF6
DRD4 GRB2
PBXIP1 TSNAX
TRAF1 MAP3K5
JAK3 STAM
APBB1 TSHZ2
UPF1 UPF3B
SYNCRIP A1CF
BGN DAG1
RASA1 AURKB
MYOM2 TTN
MAPK6 ARMC4
IKBKE SERBP1
WDR61 EZH2
VIM STX1A
TOP1 SRSF1
NLGN3 NRXN2
MAPK13 MAP2K6
KIF5B USPL1
SMAD9 LMO4
TAGLN2 FTSJ1
SACM1L COPG
SERPINA1 KLK5
FN1 NOV
MLLT4 EPHA7
MAP2K7 C5ORF42
RPS14 TAF9
HSPA5 UBQLN4
UBTF MAPK3

EIF3F RPS6KB1
INO80E INO80
CASP4 PSEN1
ORC4 ORC3
SUMO1 IKBKG
PRPF40A IL1RAP
NOTCH1 MAML3
KCNH1 ALG10
TIMM44 PRPF6
SDHB GEM
FASN EWSR1
RIOK3 CALM2
SMAD3 DOCK9
PAPOLA CPSF6
CIAO1 KIAA1967
SKIL PIAS3
ORC3 SH3BP2
EPHA4 EFN3
LATS1 RAC1
PRKCB BMP2
LIN7A DLG2
INSR GNB2L1
PDX1 ALK
PSMD3 HLA-B
S100A16 S100A14
RGS16 CSK
HSP90B1 RAE1
DLG4 LIN7B
ADRBK1 ARRB1
CTNNB1 SMARCA4
PSTPIP1 RUVBL1
FOS ATRNL1
PTPN1 ACTA1
XRCC6 CCNA1
STAM ASAP1
PRKDC MAP3K3
RBPJ NOTCH3
SIRT2 SIRT1
ETFA ETFB
APTX PICK1

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ZNHIT1 MAPK11
ERCC2 GTF2H5
CBX1 DNMT3B
RCC1 RAN
YWHAG YWHAH
STK11 WDR48
MLC1 MYLK
PF4 SDC2
ACP5 ZBTB16
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PXN EPHB1
KPNA6 KPNB1
GABARAP TBC1D15
RAC1 HPS4
PLXNB1 PLCG1
GANABTRAF6
FHL2 ZNF626
NFKB2 TFG
TGFB1 THBS1
KCNH4 MAP2K1
UBE2Q1 STUB1
SPOP TRAF1
GLUD1 GOT2
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TNFRSF10A FADD
ATG12 HIST1H2BG
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PRPF40A HIPK1
SKI SMAD1
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TP53 MNDA
TUBG1 PXN
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NR3C1 RANBP9
CALM2 NFKB2
PDK1 PKN2
HADHA NFKB2

GEMIN4 CALCOCO2
C4ORF41 TP63
PLCG1 SNX17
TOP2A SUMO4
CLN3 ESYT2
TP53 HNF4A
RARA ZBTB16
RPA2 ACTB
TNFRSF10B MSN
FUBP1 MYOC
UBE2L6 RNF25
TOB2 RPS6KA1
CPNE4 BICD1
SLC2A4DAXX
STAT1 COPS5
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MAP7D1 USP20
PXN TLN1
CUL4B WDR61
ARPC2 ARPC1A
PIAS1 RELA
FASLG SH3GL3
ERCC5 ERCC6
CRCP VAV2
FOXH1 FOXG1
RHOQ CDC42EP4
ITGB1 ITGA2
TGFB2 RPS27A
NCK1 GRB2
EIF3H EIF3I
GSK3B SMYD2
IFITM1 CR2
XCR1 XCL1
RAF1 PAK2
NFKB1 NCOA6
MCM6 SMC1A
NFKB1 YWHAG
BVES RPP25
DOK2 LCK
PSMD4 PELO

SETDB1 TSC22D1
TOR1AIP2 USP3
CHAF1A WNK1
HNRNPA1 PURA
SCAMP1 UBE3A
SGSM2 ILF2
XPC CHAF1A
YWHAB MLLT4
RPS5 SRRM1
RAF1 MAPK7
SUMO1 NCOA1
RXRB NRIP1
ANXA9 NDUFA4L2
RPAP2 EHBP1
RZR1 HOMER1
COL4A3 CAMK2B
TRMT11 WDR48
CREBBP TCF12
CDKN1A CCNA1
PDZD3 ABCC2
IGF2BP3 MEPCE
STK4 GABARAPL1
EPS15 UBQLN1
PAX5 DAXX
FN1 IFI27
BMI1 KAT5
DLG1 CNKSR2
RAF1 PAK1
CD46 LLGL1
PLAU SERPINF2
TUBB TAB2
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ATXN1 SMARCC2
RFC4 RFC2
SMARCA2 SMARCD1
NCK2 CPSF7

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LATS1 ZYX
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CLGN ADAM2
FHL2 TTN
KPNA6 MEPCE
CTNNB1 PSEN1
RELA PPP1R13L
ITGA6 CD82
OSBPL9 HIST1H2BL
TNFRSF1B TIMM50
GRIN2B CAMK2N1
MMP1 IGFBP3
NUDT21 SNRNP70
RAC1 PLCB2
NR5A1 SMARCD3
VPS72 MDFI
HSPA1B NFKB2
CBL ITK
MRPS34 DLG1
HDAC1 HIC1
SHC1 LCP2
SNAPIN SMAD2
SUMO1 NCOA3
BMI1 CBX2
RPS6KB1 PPP2CA
CALR FBN1
PTPN4 EEF1A1
SVIL P2RX7
RNF185 UBE2D4
PDAP1 MEF2D
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BCL10 NLRC4
CDH2 CDON
MARCKS TOB1
NOL3 TP53
PCBP1 EWSR1

GCC1 MCRS1
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RAC1 COG5
ID1 HES1
RB1 CDK1
F10 SERPINA10
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IRAK2 PELI2
PIK3R1 SPEN
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SOS2 ABI1
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NCK1 RIN3
GFAP S100A1
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HSP90AA1 TGFBR2
DYNC2LI1 CCL26
GRAP2 LCP2
MYCBP2 YWHAZ
VPS41 ZNF512B
PRKDC CIB1
PSEN2 APBA2
CUL4B WDR48
PDC CAMK2A
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ORC3 GAB2
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SATB1 BAZ1A
AURKBBARD1
RELA TP53BP1
RAF1 STK3
EFEMP1 RERE

PPL MYC
SFN MARK2
PPL FOS
CLTC AP1B1
ECSIT STRN4
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GHR GRB10
GNAZ PRKCD
RARA CKLF
EGFR COL9A3
NEDD9 DIMT1L
CTDSP2 AR
VIM PLEC
IKZF1 AP2M1
LYN FCER1G
HRAS MLLT4
GUCY1A2 GUCY1B3
FANCMFANCE
GZMB PRF1
DLG1 DLG2
PSMD14 LASS2
TSC2 YWHAG
TLE1 ZFP64
HIP1 CASP8
SAP18 EMD
IL15 IL15RA
RHOD SMURF2
IFNAR1MAPK1
C1QA PTX3
TCEB3B KRTAP4-12
ARIH2 SLC1A6
THBS1 SELE
NOTCH1 KAT2B
NOTCH1 KAT2A
C20ORF24 TUBGCP4
CASP1 CASP14
EFNA2 RUNX1
PIK3R1 PTPN11
SRSF1 SF3A2
PCNA DNTTIP2

GPRIN1 TRAF3
PDE4DIP GF11B
GPRIN1 DUSP4
CENPF NDEL1
ISG15 HSPA4
DUSP1 HSPA4
UBE2H LRSAM1
LUC7L3 RNPS1
NR3C1 PML
SNAPC4 ATG16L1
KLHL20 C14ORF1
CDC16 ANAPC10
MKI67 KIF15
CTTNBP2 ZRANB1
CA2 USP42
NANOS3 RNF32
SERPINA1 DERL2
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TBP TAF1D
MUSK RAPSN
SPI1 DNMT3B
SMC1A STAG3
TFDP1 NPDC1
GRB2 CHRND
TRAF3IP2 TRAF2
PRMT5 JAK3
MAPK9 DUSP4
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NEK1 FEZ2
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PCBP1 WBP11
VOPP1 SMPD3
GF11B EGFL7
TADA3 ING5
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RSU1 ACP6
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SRC POLD1

EPX NCK1
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DMRTB1 RBFOX1
BIN1 ASAP2
VIM ITGB4
MAPK6 DDX23
RGS12 GRM2
HDAC3 GATA1
ANKRD28 USP49
ACTG1 RUVBL1
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KPNA1 AICDA
ESR1 PSMB9
DNAJA1 LSM2
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FCHSD1 ASAP1
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BCL2L11 SMARCB1
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FXR2 NECAB2
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NEK2 MAD1L1
NOL8 RRAGC
RPS28 PSPH
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HNF1B PCBD1
RELA BARD1
CTSL1 IGFBP3
PLSCR1SLPI

HIST2H2BE DYRK2
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DCTN2 GOLM1
YWHAB ING1
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UBE2I CHMP4B
SF3B1 TOPORS
NFKB1 PDCD11
EIF3D SMAD2
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BZRAP1 TSPO
NFASC ANK1
MDM2 UBE2U
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CYP27B1 SMARCA4
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INSR ACP1
DVL1 RAC1
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ATXN1 ZCCHC13
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TNK2 PTPRJ
KPNB1 PIAS4
YWHAE ADAM22
TAF1 TAF9
SLC8A1YWHAE
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NFKB1 ZBTB9
GAK AXIN1
CHRM1 GPRASP1
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HAT1 ATG10
GADD45B PPARA
USHBP1 EXOC7
RBX1 FBXO22
TLE1 HES1
SNX2 FNBP1
USP11 RNF2
HTR2A NTRK3
ZFAND5 TNFAIP3
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SPTA1 PLEC
MXD1 HDAC1
CCNA2 TAF1
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ATG5 REXO2
GRB2 NACA
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GNAO1 PDE6G
NSUN4 EWSR1
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AKAP1 USP7
HSPA1B TSSK6
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BIRC2 UBE2W
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POU2F1RXRA
PGR HMGB2
MSH2 MSH6
VIM RERE
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ATXN1 SUGP2
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TNFRSF1B XPO5
CFTR DNAJB1
SATB1 SIN3A
MCRS1 CCDC53
GRB2 SHROOM2
MYH9 CD163
ROR2 FZD5
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MYB SKI
FOXO4 SIRT1
GOT2 FTSJ1
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PDGFRB CRK
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GLI3 BTRC

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UBE4B GZMB
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CTNNA1 FMN1
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MFI2 DERL3
GABRB3 PPP2CA
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DEPDC1B BARD1
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PHC2 AFG3L2

RPS3 YWHAZ
MYC ATAD2
TOMM70A APC
NFE2 ELF5
NONO SRRM1
SSBP3 ZNF226
TEAD3 VGLL1
KIF5C KLC1
BEND7 PSMF1
OGT THAP3
RAD18 POLQ
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TNNT1 TGFBR1
CDC42EP1 KRTAP4-12
HAX1 RELA
VAV2 HSPH1
TAF1 SIN3A
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PSMD4 UBAC1
UBR1 ARL15
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MEN1 MEF2D
PLCG1 PRKD1
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ETV1 KAT2B
RBPJ SUFU
CSDA GSK3B
CTBP1 CREBBP
ARHGDI1 CASP8
RTCD1 DDX21
CLN3 DDX20
EEF1A2SRRM2
GEMIN4 GEMIN6
LCK LAX1
VPS33AVPS11
NUP214HDAC5
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GDI2 ACTR6
ARIH2 KIAA1377
NFKBIA SUMO4

CENPA CENPO
STX1A SYTL4
PRKAR1A AKAP7
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FOXO3 CREBBP
NCAPH2 SMC4
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CCBP2 CCL25
CENPA KIAA1429
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ZNF3 FHL2
IFNB1 IFNAR1
CDK1 USP45
TCF3 RUNX1
CRK NR5A1
ATF2 RUVBL2
RNF166 UBE2Z
GABARAP NEK9
SRC CUL9
IGF2BP3 POLR1E
CCL7 FEZ1
MEPCE EXOSC5
SMAD2 NEDD4L
MAPRE1 AURKB
NTS MEP1A
GUCY1A2 STUB1
DIAPH1 BAIAP2
IDH3A SUMO4
RANBP2 CDC73
CRKL BCAR1
CCL25 CCR10
MYCBP2 SFN
MYCBP2 YWHAB
GBP2 MAGI1
COL4A4 HABP2
EIF3H HSP90AB1
ARL1 BRF2
RB1 RBL2
UBL4A PDE12

UHL1 KRT4
AKT2 SETDB1
NCOA2 ESRRB
PNP ZHX1
HIRA ASF1B
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MBIP NINL
EPN2 CLTC
PPP2CASTK24
PCBP1 TSC22D4
PRKCA YWHAG
FAS HIPK3
VIM KIAA1377
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PRNP CSN3
CDKN2A E2F1
RORA PROX1
YES1 FLT1
ZNF193 ZSCAN30
MEN1 HSPA4
APC PLEKHA5
ARAF MAP2K1
POU2F1HMGB2
GUCY2C GUCA2A
CASK SDC1
RANGAP1 TOPORS
GPS2 C19ORF57
SHMT2 GNAS
JUP CTNNBIP1
ITPR1 RYR2
SKP1 NFKB2
RPN1 IKBKG
NCK1 NCKIPSD
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SMAD4 RASD2
DHX9 AKAP8L
YWHAE SH3BP4
HCK IRF2BPL
BTG2 CNOT7
DOK2 KIAA1279

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SMAD2 DDX1
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ITGB1 PRKCA
IKBKB ACTG1
CTNNB1 GSK3B
CSK PTPN18
KDM1ARB1
RIPK2 MYH10
USP11 MYO6
MECOM EHMT2
RPA2 RPA4
CDKN1B NUP50
OTX1 MDFI
PLK1 MDM2
ZMYND11 EZH2
GRAP2 KHDRBS1
RNF20 PA2G4
TCF7L2 DAXX
GADD45G RARA
TFAP2C CITED2
SKP1 SKP2
PHB AKAP11
CTNNB1 PSEN2
TFAP2C CITED1
SULT1E1 C14ORF1
BUB3 WBP4
PGD GBE1
OTX2 LHX1
YWHAZ MEF2C
CALCOCO2 ZNF451
JAK2 HES5
GABARAPL2 ATG3
VOPP1 MTF2
CBR1 IKBKE
HDAC1 HES1
DAND5 DDX5
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GBF1 KBTBD7

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DAZAP2 RBPMS
APP KAT5
TRAF3IP2 TRAF3
SMAD4 RASL12
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SNAPIN SLC14A2
ORC3 PTPN1
PSMA7 ACTR6
MYH14 TRPM7
EIF3E EIF3K
SNRNP200 VHL
OTUD4 DSG1
C1QBP MAP3K14
EXOSC10 TARDBP
CBL CD2AP
TNNI1 PKD2L1
HCK MED28
CRYAB HDAC1
PRPF4B POLR3F
BCAR1 ZYX
CASP3 IL16
STAT3 CREBBP
TP53 NCL
KCNA2 DLG1
DGKD DGKH
NFIB NFIX
IRAK1 TOLLIP
PIK3R1 CKAP5
CUL1 COPS6
MDM2 ARHGEF6
NECAB2 NEK6
PSMD14 C19ORF60
NRAP TRIM63
RIPK2 MYH9
CRLF1 CLCF1
HSPA1B PACSIN1
MAML2 NOTCH3
HNF4A HDAC4
RAC1 TNFRSF12A

RELA ILF2
TOMM34 ATP6V1D
PELI1 IRAK4
NFKB1 TMEM66
GPRIN1GRIN2B
BAHD1 TRAF2
POLR2G MED28
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CYFIP2 NCKAP1
NCOR1 PRAM1
STAT3 HDAC2
TOB1 TNKS1BP1
MCM2 MOBKL3
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ATXN1 ACACA
KRTAP4-12 PLSCR4
PML TOPBP1
SMAD6 STAMBP
CLU NR4A1
GRB2 RAPSN
ABL1 MICAL1
CCDC101 USP22
EGF LMNA
CIAO1 NUP93
CNTFR GRB2
FEZ2 SMC3
YWHAB GEM
FXR2 DPPA2
CAMKK2 OBSL1
CDC73 PAF1
SYT4 NRXN1
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CYP2C9 RNF32
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UBA1 BRCA1
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PPP2R3A AKAP9
ANXA2 SRC

TRIP6 SERBP1
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IFNAR2IRF9
PRKCA DLG4
EIF4EBP1 MAPKAPK5
ANK1 ITPR3
NPC2 DHDDS
RELA PHB2
ACTB HNRNPU
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POLR2B RPF1
CR2 CD81
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DRAP1 TAF9B
SLC25A6 TRADD
FOXC2 KDM5B
PPARA NR1H3
MYO1CPHLDA3
SHANK2 DLGAP4
ADRB2 GRK6
ZNF24 RPL37
RAC1 BAIAP2
ACVR1B FKBP1A
PRKCE PRKD1
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COL4A2 MAPK6
COL4A1 MAG
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CRX NRL
SRRM1 DDX21
DVL2 SMURF1
PTPN6 JAK3
REV3L CHEK2
FOXP3 IKZF4
SEN2 IKBKG
CCND1 KAT2B
SMAD3 KPNB1
ATXN1 ATXN2L

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GRHL3 GRHL1
VIM SIRT6
CHRNB1 RAPSN
RAN NEK9
FYN GNB2L1
NUDT21 MCC
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MTA1 CHD4
PSTPIP1 BZW1
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CIDEA CIDEB
EDF1 CALM2
HNRNPC SREK1
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PAFAH1B3 C7ORF64
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GRB2 INPP5F
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GSK3B VTA1
FLNA YWHAG
CDKN2A PSME3
WAC UBQLN4
CETP EWSR1
FAS RHOA
TLR4 TLR5
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NCK2 ERBB3
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WWP2 RASA1
COIL TAF9
FLOT1 CAV1
TPD52L1 TPD52L3
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SYK BTK
GSK3A EIF2B5
SNAPIN HAP1
EIF4B PAK2
TARS VHL
GZMB RAB27A
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TGFB1 ITK
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SNRPF DDX20
TCERG1 FANCA
IRF3 TICAM1
CSN2 NEK1
MSN NCF4
OPRM1 GNAI1
ABL1 SHE
G3BP1 GNL2

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HGS PAK1
BCL2 BNIP1
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PML SNRNP40
DAZAP1 ITCH
DLGAP5 FBXO7
TUBB4 MAP3K14
RALB REPS1
GABARAP CLINT1
EIF2C2 TNRC6B
NASP GRB2
SUMO2 TP53BP1
CXCL5 DARC
TADA3 RARA
EEF1D SRRM2
UBE2D2 RNF181
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APC PPP2R5A
POLE2 KAT5
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LRSAM1 GPR108
TSC22D1 SFXN1
HLA-A UGGT1
STAU1 MAP1B
E2F1 CDKN2A
MDM2 JMY
UMOD MMP8
ANXA1 S100A11
ITK IKBKG
EGFR FER
SUMO2 CHD3
SART1 MAX

NFKBIE PRKDC
HGS SNAP25
CTLA4 AP1M1
HDAC2 DPEP2
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CLSPN FZR1
HTR2A AIDA
XRCC6 RPA2
GPRIN1 SPTAN1
ARL1 GSTK1
GH1 HNRNPC
PRKCA CBL
ISL1 LHX4
APBB1 U2AF2
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WDR5 WDR59
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PLA2G2A CRMP1
SGSM2 RGMA
FGB KLK6
TUBB1 ZMYM2
RAF1 DMPK
GOT2 VDAC1
ANKRD1 TTN
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GCDH ECSIT
CLPP C20ORF24
EDF1 NRL
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TFCP2 RNF2
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RHOA VAV3
CDKN2A TBRG1
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MLH1 SMC1A
CDA ZNF598
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DDB1 COPS5
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FLT4 IKBKG
YWHAQ SRSF3
ARID1A KLF1
AP2B1 ATM
FHL3 ITGA7
GTF2H1 FAM190B
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UBE3A UBQLN2
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EPN2 TFAP2A
MARK3 HDAC5
SH2B2 INSR
CDH1 PSEN1
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MAP3K1 RPS27L
TGIF1 MKKS
CDK1 HSPA4
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PLSCR1 SHC1
FGF1 FGFR2
TAL1 HDAC1
PAK3 ARHGEF7
RAB27A STX1A
XPO1 KIF17
SRSF2 PRCC
STK25 IKBKG
DLX5 SPEN
AQP4 AP3M1
NOP56 BMPR2
AP2A1 EHD1
TICAM1 TRAF4
RELA PRMT1
RRAS RALGDS

TERF2 TINF2
CLDN7 EPCAM
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TSHR CALR
CXCL13 FGF2
BUB3 ADRM1
RXRG PNO1
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HSPD1 HDAC1
PSMD3 BLM
KIF5C KIF5B
HGS CBS
RARA WTIP
CCNB1 CCNF
CTAGE5 ABL1
DNM2 TRIP10
TNF CAV1
SSR3 GSTK1
TNFAIP8 FLNC
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RAB30 SMAD1
HDAC3 AKT1
HLA-B EZR
CDC16 CDC23
CDC16 ANAPC7
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CTNNA1 TSPYL1
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ICAM2 MSN
YWHAZ KIF23
USHBP1 MED28
CAV1 ILK
CBX5 NSL1
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CTNNB1 VEZT
ITGA2BCIB1

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NDUFB8 EIF2B3
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UBXN1 TRAF2
PLUNC UBQLN4
SREBF2SNAP23
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RGS2 IBTK
CBX7 CBX8
RBX1 FBXO18
CREB1 PDX1
IPO7 IKBKG
UBC MKRN1
MAD2L1 TSC22D4
UBC TBK1
RRAS2 RASIP1
GNAO1 HRH4
RNF130 SCN2A
EIF4E EMX2
CCT8 PPP2R2C
APOE LRP1
SMAD2 CREBBP
CEP63 CAMKK2
RBM10 FAM124A
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WNK1 FHOD1
TNNT1 ZMYND19
TSG101 SH2D3A
MAPK3 CPXM1
SCNN1A RPS27A
MECP2 RCOR1
PDCD6 MAPK1IP1L
LPXN POM121
HMOX1POR
BBS2 EXOC7
CEBPG GRINL1A
AP2A2 AP2B1
CDC6 SNX33
CENPF TSC22D1
GRB2 SH3D19

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PBXIP1 MDFI
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NUTF2 FTSJ1
SNAP23ABI2
ITGA5 GIPC1
TLE1 HES6
GNMT PLEKHF2
NFKB2 RUVBL1
PHOX2A PRKACA
RPS27AABTB2
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XRCC6 KAT2B
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PABPC1 YWHAG
RAF1 CNKSR2
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MCM4 ORC3
DYNLL2 EWSR1
SMAD4 ZNF521
DLG4 SLC25A16
TMEM139 SMURF2
ZNF24 APLP1
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FXR1 CYFIP1
PABPC1 GIGYF2
SHC1 CLTC
EFNA1 KAT5
ESD DDA1
TCF4 ID3
PDCD6IP TSG101
NFKB1 DNAJA3
ORC3 CD244
RPS14 TRIP6
CASK CASKIN1
ATXN1 ZHX3
RNF135 RARRES3
MAPK8 BMF

ERBB2 TNS3
SFN MST1R
IRF3 SMURF2
YWHAG HDAC7
ERBB2 PTK2B
TBC1D25 FEZ2
STK25 STK24
CHEK2 MSH2
DNMT1 STAT3
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MYOD1HIST1H3J
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FXVD3 FBXL12
ORC2 DBF4
RLN2 RXFP1
HLA-A COPB1
SMAD2 HDAC2
UBA1 BTRC
CENPA H3F3B
EIF4G1 TH1L
NR1H2 HDAC4
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CBL TRAF6
POLR2B GTF2F1
ANAPC11 ANAPC10
NT5C2 NOC4L
TBP BRD2
YWHAG TRA2A
FN1 ITGA8
PDPK1 MTOR
PPP1CAAURKB
HLA-A HYOU1
NR3C1 KDM5A
JUP DSG3
NFATC2 CREBBP
MSH4 RPA1
ETS1 CAMK2B
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SMAD2 RSF1
HIST1H4I TAF1B
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CSK LILRB1
SMAD7 KDM2A
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RTN4IP1 RTN4R
SRSF11 RNPS1
STAT3 IRAK1
USP25 MYO6
SUV39H2 CGGBP1
NFKB2 BTRC
SMARCB1 NR0B2
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ZFPM2 UBQLN4
NFYB SREBF2
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BAG4 HSP90AA1
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KRT18 CASP7
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TNFRSF10B TIMM50
VAV1 ZNF655
PABPC1 ITCH
RASSF3SAV1
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SET THAP7
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SUMO2 TRIM26
F13A1 SERPINF2
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GRB2 KHDRBS1
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PIGC ZHX1
COL4A4 FBLN2
ARR3 ITCH
CAMTA2 NKX2-5
PARN UPF2
NFYA CDK2
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SMG1 TELO2
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THRA ITGB3BP
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GABBR2 GABBR1
PDPK1 ILK
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PRKCB IFNAR2
CCL7 AES
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YWHAG PRPF4B
TRAF3 TNFRSF19
CYP27B1 ZBTB16
RAD23A ADRM1
CBX5 PRR14
DLG4 DLGAP4
USP6 ANKRD44
CYP27B1 PPP2CA
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SNAPIN DDR1
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BCL2A1 BMF
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NPM1 NUMA1
SKP1 CUL1
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SMAD4 PBK
NRP1 PGF
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RGS2 LRFN1
PRKRA TIRAP
CASP1 PAK1
ETS1 SRSF11
HCK SOS1
NFKB1 GRB14
NFKB2 RUVBL2
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TGFB2 DAXX
NRAP TLN1
VCAN SELL
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CD9 CD38
UBE2D2 ZNRF2

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SMC2 CBX5
POU2F2TXNRD1
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SERPINA3 CTRL
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RXRA LGALS12
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PIAS1 TRIM27
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VWF GP1BA
SYK HDAC1
TCEAL1 USP7
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PIAS1 ZMIZ2
PFDN1 IKBKE
ARRB1 PRPF4B
JAK2 AGTR1
ARR3 ZNF496
ATG12 EPRS
IL11 MAGEA11
RET CBL
RUNX1 CBFβ
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CCL21 CCBP2
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APC AXIN2
VAV1 GRB2
ARL2 PPP2R5D
SUPT7LSERTAD1
HDAC3 AES
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HAP1 IMMT
TXN EPB41
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TIRAP IL1RL1
MYBL1 NLK
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GRAP2 KIT
NCOR1 NR1D2
PXN GIT1
LYN BCAR1
RAB35 ALK
MCC CNBP

CASP8 DEDD2
SERPINE1 LRP2
VCL NRAP
PGD PRKAB1
THRA MED21
CREBBP RBCK1
GTF2I MEPCE
UBC POLL
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DLG1 GPR125
BCL2 TMBIM6
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RELA HSPA1B
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UBC ZRANB1
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NCK2 DDR1
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PTN SNCAIP
ATF1 CSNK2A2
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GRAP2 CD28
MSH3 BARD1
THRA TDG

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KNTC1 ZWILCH
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HOXD4 ZBTB32
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KIAA1967 ZNF335
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DACH1 NAGK
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YKT6 BET1L
HK1 MAX
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MCC SOAT2
HLA-DQB2 CD74
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TRAF1 MAP3K14
SPOP MYD88
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SNRPF WDR77
RELB CBX3
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CTLA4 STAT5A
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ATP5B TRIM63
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YWHAZ PRKCE
CCND1 RFC1
CAPNS1 CAST

WNK1 PIAS3
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TAF5 TAF11
FAM124A NKAP
HGS BSG
TAF5 TAF13
NET1 MAGI1
EPHB6 HDHD2
TNFAIP3 TAX1BP1
BMP4 BMPER
PSMB9 PSMB8
CRYABBMPR2
PTN CDH10
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CCNE1 RRN3
CBX4 RING1
LRP1 ANAPC10
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CREB1 CARM1
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HDAC4 CDK5
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RB1 PURA
YWHAQ PNKP
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EDF1 ATF2
GUCY1A2 HSPA4
PDGFA DUSP3
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ARL4D NDRG1
MMP2 LCN2
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FYN PLCG1
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EFCAB6 PARK7
PIGF PIGO
HGS HNRPDL
COIL PSME3
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NEFH STXBP1
PML PAXIP1
MCM4 DBF4
TAF6 SETD7
DTX3L UBE2E2
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DCP2 EIF2C2
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STAU1 RPL28
CCND1 CTNNB1
ZMYND11 SMAD2
CUX1 BIN1

RHPN2 ATG5
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SYT1 GNB2L1
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HSP90AB1 PRKCH
HOXA13 MEIS3
TOP2A DHX9
RELA APBA2
EIF1B CDKN2A
IRAK2 IL1R1
DVL3 ZNF512B
PPP1R2 LMTK2
CSF1R SOS1
UTP20 IKBKG
PML SUMO2
SMAD3 DAB2
PLAU ST14
NPHP1 FLNA
CCNE1 E2F4
NR1H2 UBE2I
PTN SPIN1
CSNK2A2 RGS19
MELK BCL2L14
FOS EP300
STAT3 KAT5
RASA1 DOK4
RRAS PLCG1
ARRB2 AP2B1
SMAD2 ERBB2IP
STAT5B CXCR4
POLD2 TSG101
MLH1 NDFIP2
HDAC1 EID2B
MAGI2 RAPGEF2
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SMAD2 RANBP9

PTPRC IFNAR1
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DOK2 DOK1
RB1 CDK6
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RAB2A GOLGA2
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HTT CRMP1
KDM1A TAL1
CUL4B POC1B
RGS2 SCN5A
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PSMB4 SLX4
PHF15 ING4
KIF23 RACGAP1
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SMAD2 ANP32B
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GRIA2 CACNG2
PROC GGCX
XRCC6 TCF4
DAPK3 CDKN1A
CUTC PIM2
NFKB1 STAT3
CSNK1D ARFGAP1
C2ORF18 MS4A7
CRTC2 RFWD2

RNF220 UBE2E2
GZMA NCL
SQSTM1 NTRK2
CLTC STAM
PARK2 TUBA4A
GRIN2D CTNNB1
VHL HDAC1
TSC22D1 SLC25A22
ATN1 ECM1
SLC25A6 TMEM62
CAD MAP3K1
TRAF2 STUB1
CCNB1 KAT5
ACTG1 RIPK3
SIAH2 CACYBP
ATE1 RAE1
SERPINA3 ERBB2
TP53 ARL3
USHBP1 C1ORF216
MAP3K5 ALK
MSX1 CREBBP
ITGB3BP GIT1
PDE6D RPGR
TRIO PTPRF
GNAO1 S1PR5
PPP2R1A KIAA1524
LCK ABI1
RGS2 COPB1
RGS20 STMN2
MAX MXD3
SMAD2 MED15
BCAR3 TMED10
ERBB2 CISH
PARK2 RAC1
IRS1 YWHAZ
PLK1 PSMB7
BTF3P11 TNFSF11
GTF2E1 SND1
NAA38 COL23A1
LALBA GRB2

KLK3 ARAF
NDUFS1 HLA-B
TRAF2 EDAR
CRK RAPGEF1
PRKACA NFKB1
GNB2L1 PRKCD
RAP1GDS1 MBIP
TNFAIP3 YWHAB
TRIM54 TRIM55
APBB1IP PACSIN2
ERBB2 ANKS1A
CHMP2A VPS24
RFXAP SMARCA4
C6ORF165 UBXN11
HTT HAP1
IPO8 EIF2C1
STAT1 SUMO4
TACC2 AURKC
CTNNB1 CACYBP
APRT FTSJ1
RNF130 UBE2D4
YWHAG NCBP1
HSPA4 PPP5C
VIM SETDB1
CASK SDC3
ERCC3 GCN1L1
SOX8 TCF12
MAFG NFE2L1
PTPRF GIT1
HLA-B VPS35
APOE RNF32
MAP3K7 NUDT21
TLX1 PPP2CA
RABEP1 GGA3
C5 C8B
WNK1 CABIN1
BUB1B UBC
SMAD4 C16ORF57
NASP ULK2
HDAC3 ZBTB33

ID2 SIN3A
TSPAN6 INSL6
EPPK1 GRB2
AAMP TH1L
VHL PIN1
TPST1 CCR8
PSMA3 PSMD6
GABARAPL2 PFKP
NOTCH1 ITCH
GSN VASP
IGFBP3 PAPPA2
PAX7 WDR5
YWHAG DYRK1A
ACTG1 TRAF6
YWHAG TP53BP2
KRT5 TCHP
ESR1 CSNK2B
ZEB2 SMAD1
ZEB2 SMAD2
AR NR0B2
MPP3 SF3B3
MTA1 BCL11B
GABARAP FNIP1
NFKB1 APLP2
XRCC1 APTX
TP53 BTK
CDC42 SNRNP40
TOP3B SNRPB
TUBA4A GRM7
SLX4 TSPYL1
IPO8 EIF2C2
SMAD7 STRAP
PCNA FANCE
MCC CCNA1
HOXC11 MUM1
LRP1 MMP17
SPARC VEGFA
TPM2 S100A2
SEC11A TRAF6
EZR MDM2

SETDB1 CDYL
PRKCA SLC1A1
HOXB6 TCEAL1
HCK CHST15
GH1 AK2
PCNA CLSPN
XRCC6 BARD1
PRDX6 SUMO4
RNF11 AUP1
NAP1L5 MAGEH1
ATN1 EFCAB4B
RNPS1 WDR26
TRAF3IP1 FGFR1OP2
EPM2A EPM2AIP1
BLMH USP53
SLPI CTSB
PDHA1 PRKAB1
ZFP36 YWHAG
GNA13 ARHGEF12
RBP1 BRMS1
SMAD4 ECSIT
ATMIN ATM
JAK1 IRS1
LRRC15 USP15
FSHR CBX5
PIK3C2B PIK3R1
PSEN1 FBXW7
FLII LRRFIP1
ITGAM ICAM2
PQBP1 CLTB
NFKB1 PCBD1
IGFBP3 IGFALS
MCM2 CPSF1
PTP4A3 SMC2
C6ORF165 MDFI
C9 CLU
TRAF3 TNFRSF12A
ARHGAP8 CTTN
RHOA ARHGAP26
MED12 MED13

CFTR LPAR2
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MAP3K5 MACF1
SYNJ1 SORBS2
PRPF40A YLPM1
KLF11 HDAC1
HSD17B4 RELB
PCBD1 ZNF567
CHAF1A ZNF408
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SLC6A3STX1A
MAPK1 PPP1CA
FGF2 HSPG2
YWHAG CDC5L
ARHGDI1 EIF2B1
APC RBM8A
CD40 POLR2H
ANKS4B USH1C
USP49 MED8
ARL4D CNPY4
NR3C1 COPS6
CHTF18DSCC1
GNAZ RGS19
IREB2 RBCK1
PLCG1 SHB
RUNX2 HDAC5
ATXN1 RAPGEF4
CTNND1 GSK3B
DNM2 ITSN1
PRDX4 SUMO4
CHD3 ZHX1
PRNP ZFYVE28
UBE2D2 OTUB1
SOAT1 TNIK
PITX2 LEF1
NRIP1 TEX11
TOLLIP ODAM
SLC38A1 ITGB1BP3
UBE2D2 RMND5B
BICD2 SLC25A10

TNFRSF1B SEC61A1
USHBP1 TUBGCP4
HSPA5 MAP3K1
RPS6KA4 ATF1
ITGAE CHFR
SRP72 CASP6
TRIM31UBE2D4
RQCD1 CNOT6L
DVL2 SORBS3
TRIP13 USP32
BRD4 HIST1H4I
SSBP3 ANKRD5
UBE2L3 RNF144B
IPO13 ALX1
RAB6A VHL
NCOA4 ATXN2
TP73 PIAS1
CCNA2 HIRA
SRPK2 SRSF6
SRPK2 SRSF5
CYFIP2 WASF2
JAK3 PTK2B
EIF2AK2 PPP1CA
CLTC CLINT1
UBR5 TOPBP1
APEX1 TRAF6
PFKL KRTAP4-12
MCC MARS
PCM1 TTC8
RIBC2 NRBP1
ALK MAPK8IP3
HMOX1RPS27A
MYC RPS27A
THRA CUL1
ERBB2 PIK3R3
HAT1 SMAD7
TP53 SPSB1
PAK1 ABI3
PDLIM1 ACTN1
NCOA1 MAPK6

SND1 USP22
EPHA2 GRB2
PSMD7 MAX
MYST2 PACSIN1
C5AR1 RPS19
MYC RPS27A
EGFR NCK1
INSL6 KIAA1377
VHL DCTPP1
NCOA1 HIF1A
PRRC2B RERE
DAZAP2 EXD3
SSSCA1FXR2
BAG2 NFKB2
IRS1 PIK3R3
GMPS USP7
F2RL1 GPRASP1
NFKB1 TAB2
PRDM1 TLE2
GSK3A MCL1
PRDM1 TLE1
BCAP31 VAMP2
HLA-DOA HLA-DMA
EZR MCC
ACTG1 IKBKG
CDK8 MED17
PRKAR2A WASF1
RAD23A TRAF2
CHD3 IKZF3
UBE2D1 RNF43
PHF10 UTP14A
TCF21 APLP1
SRC ARR3
BRCA1 FANCD2
TNNT1 PRKG1
USP49 STAMBPL1
SMAD2 SMARCC1
RPS6KA3 GPRIN1
POLR2C EEF1A1
TBXA2R GNA12

STAT1 TSC1
UBE2K DZIP3
EIF4EBP1 CHTF8
GIPC1 LRP1
CRK TP53BP2
RARA UBE3A
FOS ATP5I
IL4R PTPN11
KRTAP4-12 ILF3
FSTL1 TTN
VCAM1ITGAD
PPP4C CCDC6
PDXDC1 BCAP29
MAGEB2 RPS19
PSTPIP1 BZW2
C11ORF49 UBQLN4
MTOR RPS6KA1
HCK IL6ST
SMAD3 FOXO4
FRYL HOMER3
USP1 FANCD2
SMAD2 COPS5
ARRB2 PPM1A
DLG3 NLGN3
CASP8 HDAC7
PINX1 WWC3
DCTN1 GSTK1
NXPH3 CRK
NAP1L5 KIAA1377
VAMP3 VTI1A
PRPH2 CNGB1
ZBTB16GNE
MAP2K4 MAP4K2
ADRM1UBQLN2
FAM3A OGDH
GH1 APRT
MCM4 SUPT16H
CLN3 SLC25A10
MAP2K4 MAP3K12
FZD7 DLG1

SFPQ TOPORS
SIP1 SRSF2
GH1 PCBP1
CCT4 ACTA1
NRIP1 HDAC9
CUL4B DCAF11
GTF2A1 CSNK2A1
ORAI1 ORAI3
PRKAR1A GRB2
SMAD2 RIT1
UBE2D2 RNF185
YWHAZ DYNC1H1
PRKCG DAB2
AIFM1 BRF2
PPP2R1A PPP2CA
SMARCC1 SMARCC2
FXR1 KIAA1377
MCM4 EMD
TSHR PIK3R1
GTPBP3 PARP11
PRSS1 GRB2
MEOX1 SOX10
IL4R GNB2L1
ARIH2 EEF1A1
GIPC1 ACTN1
PHLPP1 BTRC
EPHX2 NIPSNAP3A
TRIM24 HSPA1B
TNFRSF13B TNFSF13B
MCL1 MEF2D
POLE TOPBP1
BID CSNK2B
NUP85 DYNC1LI1
NUP153 MAPK14
ABL1 YWHAZ
CLSPN TIMELESS
PPP1CC BRCA1
OMG RTN4R
TUBB4 MAP3K3
PIAS2 MBD1

WNK1 WNK2
SNRNP200 CD2BP2
CST7 CTSC
MRPS9 DDX56
CASP4 IL18
WNK1 PKP3
CCDC113 HAP1
CHEK2 ASF1A
VHL FKBP1A
TNFSF11 ADAM17
MMP2 CCL7
ACTN4 WNK1
AGPS GNPAT
ARX TRAF6
MSL3 MSL2
CAPNS1 RASA1
GXYLT1 ATG5
APBB1 PTBP1
ITSN1 DISC1
SLPI PRSS2
NR1H3 NCOA3
DNAJB6 SIRT2
ITGAV ITGB6
HAX1 HCLS1
STAM2 CBX5
STMN2 VOPPI
HIF1A HDAC5
PPM1G BAP1
PIK3R1 TIRAP
CDT1 TP63
MXI1 SMC3
TRAF3IP1 TRAF6
ABLIM1 WNK1
APC2 MAPRE1
LRPAP1 EIF4EBP1
TP53 CSNK1D
RPS6KA2 MAGI1
PSTPIP1 CD2AP
PSTPIP1 FDFT1
PLAU PLAUR

TRPC4AP IKBKG
RXRA NCOR2
PPP1R15A MLL
SUMO3 HIF1A
CYP2E1POR
MCC TPP2
RB1 PRMT2
ZBTB8B SMURF1
CEBPE ZNF384
GTF2F2 RPL27A
YWHAH PARD6B
YWHAH PARD6G
RBX1 RFWD2
DYRK3 PRNP
HPCAL1 SLC34A1
TP53 CSNK1A1
SRC HOXC8
TBP NFYB
PGD TRAF6
BMP4 BMPR1A
NCK1 CBLB
PDPK1 G3BP1
FGF1 SYT1
APOE MAST1
NUP153NXF1
BET1 USHBP1
BIN1 DNMT2
COL1A1 NID1
PHB DPP6
EMD HDAC1
KCNA3 DLG1
FAM101A FBXW7
APP APPBP2
MCC SEC63
EPAS1 ARNTL2
HCK BCAR1
SERPINB9 TUBB2A
EFNA1 EPHA3
EFNA1 EPHA8
TP53 TADA1

FGFR3 FGF23
GAPDH CAMK2B
MYO1BPTP4A3
CDK9 RELA
APP SNCA
HSP90B1 RXRB
HOXA13 SMAD5
EIF1B PFDN4
CD1D CANX
PLD2 DPYSL2
CCDC85B CCDC112
MAGEA11 OTUB2
TUBA4A GPHN
SOS2 FAM82B
SOCS6 INSR
TNFSF9TRAF2
NCOA2 HIF1A
DVL3 SNX22
OTUD4 RUNX1T1
UBE2V2 MOBKL3
PHF12 SIN3A
TUBA1C MAP3K3
CLSTN1 PRNP
EFNA1 EPHA2
RNF26 UBE2D4
CCAR1 CASP10
CDH5 SMG1
SAP18 IKZF1
HSPA4 HSPBP1
HCK C2ORF44
UBE2E1 POLM
RELA FAF1
EIF1AXTRAF6
DIAPH3HDAC6
GTF2F2NAP1L1
TEC GNA12
KALRN PAK1
EEF1D VHL
UBE2D2 ZNFX1
HIP1R HTT

EIF4E PML
SLC35E1 MCOLN1
GAK USO1
CDK1 UBA1
YWHAG SHROOM2
MSX1 SUMO2
CAD RIPK1
CCNA2 BRCA1
MDM2 CDKN2A
NCK1 PAK1
NDEL1 DISC1
HIST1H4I MYST1
SNRPD3 CDC5L
TRIM27PIAS3
LYN MS4A2
CYP27B1 POU1F1
C10RF65 C19ORF50
PEX10 PEX5
HAP1 NIPSNAP3A
TRIM32UBE2U
PPM1B ANXA2
PRKCZ HABP4
TGFB1 GNA13
MKNK1ACBD3
GRAP2 GAB1
DLGAP5 BTRC
THBS1 MMP2
RER1 IMMT
PFKL RELB
RPS6KB1 STK11
COPS5 COPS7B
EWSR1 SLC22A24
ZNF24 KBTBD7
COPE ARF1P1
KDR SHC2
PRSS23 NCAPD3
SEC16ASEC23A
WDR6 CDC42EP4
MAP2K1 RPS6KA2
SKIV2L2 MPHOSPH6

USP7 ZNF423
MRPS10 PHLDA3
RELA ING4
C6ORF165 RNF138
SUMO1 LRCH1
PDE4D AKAP6
NTRK1 FRS2
TP53 LAMA4
NCK1 PAK2
MLPH MYO5A
THBS1 ELANE
DLEU1 TUBB2C
CBX5 EHMT2
EIF2S1 EIF1AX
SMAD4 EWSR1
HCLS1 SYK
CEBPB EHMT2
OXT OXTR
RXRA NR2E3
PPARG SERPINH1
TUBB4 HEXDC
SDC1 PTN
CTR9 LEO1
FASLG FADD
COL4A1 BMP3
ARFIP2 ITGB3BP
ERBB2 SHC3
GOSR1 SCFD1
CUL7 MEGF10
DIXDC1 NDEL1
CENPA SRRT
ERBB2 GRB7
IRAK2 TRAF6
STMN2 TRPC5
BMP7 ACVR2A
NCK1 CHAF1A
ERBB3 SHC1
ACTG1 FHOD1
SNRPD3 MEPCE
AR TGIF1

PIN1 KIF20B
SPTAN1 SLC9A2
TUBA4A PFDN4
UBE2D3 TRIM25
INPPL1 SORBS3
TRIM63UBE2J1
FOS GTF2E2
TCEANC C1ORF190
DIXDC1 MAP3K4
KPNA1 RAG2
ZFP64 C14ORF1
RNF10 UBE2Q2
RCN2 TRADD
HLA-C TUFM
MYC RPL11
HCK KHDRBS1
SIN3A ZBTB4
PFN2 RAP1GAP
CHGB FGFR3
GNAZ RGS7
MRPS6 SRRM2
ABCB1 CAV1
POU2F2POU2AF1
EIF1B MXRA5
TP53 NFYB
DAND5 S1PR1
ZSCAN16 ZSCAN30
UBC NEDD4L
NUP62 RAE1
DAND5 ARHGAP21
RPS16 NDRG1
MAX AKAP13
SUV39H1 MECP2
REV3L MAD2L2
TCF4 ID2
POLD2 KCTD13
HNRNPK SRSF3
HDAC1 HNRNPD
KAT5 GEMIN7
NAA38 FERMT3

NANOS3 PI4K2A
RUNX1 NR4A2
APLP1 CNTN4
AR NCOA2
GATA1 HEY1
ANAPC11 ANAPC2
MAP3K7 HSPA5
PPP2CATRIP13
HSPA9 COBRA1
HSPA5 TSHR
KCNK1 SENP1
DNAJC3 EIF2AK3
PNRC1 HNF4G
GABARAPL2 TTBK1
ADAM9SNX9
ERBB2 SYK
MAPK1 IRS1
RECQL5 POLR2B
TNF MRPS33
SAP30 UBASH3B
KLKB1 TFPI2
FXR2 CYFIP1
ARL1 PHLDA3
KLK1 SERPINA4
CTNNB1 DVL3
ACTA2 SNTA1
GRM3 PICK1
TRAF2 CHMP2B
ARAF RABGGTB
NPM1 OTUB1
NDUFV1 EWSR1
APP COL4A6
APC FHOD1
SNAP25ITSN1
FXR2 TRAF2
REST HDAC1
ACTA1 TTN
CBL PTPN22
CDH1 VEZT
DPM2 PIGC

ELAVL3 EWSR1
DST CELSR3
EZR IKBKE
TRAF7 PIAS4
PLCG1 MAP4
PIK3C2A STAMBP
RIOK3 SSR4
NRP2 VEGFA
MEPCE CCDC87
SUMO2 AHNAK
HMGA1RNF4
KRT18 CASP6
DYNLL2 MYO5A
PLAU IGF2R
HDAC1 CHFR
TAL1 ELSPBP1
CTSG SDC1
CD44 PKN1
BRCA1 NUP153
HK2 UBQLN4
TK2 CRMP1
DENR MARCH5
CCNB1 ITPR1
TNFRSF10B BID
STAU1 IQGAP1
HNRNPA1 PABPC1
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TNF RALBP1
RRAS PPP2CA
THRA COPS2
SKI SIX1
ESR1 TP53
ITGB1 RAB8B
C14ORF1 LSM2
ISG15 RPF1
SLC15A1 PDZD3
CDK1 KHDRBS1
CDK2 NAA25
FSTL1 DIP2A
PPP2R1A CCNG1

HRAS RASSF2
PRKCZ ECT2
MAFF GTF2A1L
PTPRB ALK
STAT3 LEPR
DDX5 SRRM2
LYN KIT
CDKN2A AHNAK
CBX3 LBR
GTF2I GSTK1
SMARCC2 SMARCE1
C1ORF65 KRTAP4-12
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MAP3K1 TUBA1A
GSK3B EWSR1
ZRANB2 EMD
RPA3 ACTB
PCNA MSH6
ACD POT1
MSN PLEC
CTNNB1 TCF7L1
DLG4 NLGN2
FOXO1 SIRT1
CRY1 KRTAP4-12
PRAF2 CCR5
TBP HNRNPK
JAK2 PTK2B
ESR1 ERBB2
TADA3 TP53
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C12ORF45 RUVBL2
HLA-DRA HLA-DMB
MYB ADAM22
RERE ZMYND8
IPO5 GABARAP
KCNQ2 KCNQ1
RBMX FXR2
PSEN1 GCDH
TRAM1 TICAM1
PRNP APLP2

GAPDH PLD2
GAPDH KAT5
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PCNA POLI
XPO1 RANBP2
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RPS4X NFKB2
MDM2 PYHIN1
HIST1H1C WDR12
GIPC1 FZD3
RNF144A UBE2H
ACP1 FNBP1L
NCOR1 HTT
EIF4E EIF4G1
HSPE1 INSL6
CCND2 PCGF2
YWHAZ EIF3A
IPO5 PMS1
HSPG2 ECM1
PML CHFR
ISG15 UBE2D3
UBE2N BFAR
MAX SHANK2
NSF STX1A
UBC RCHY1
UBE2D2 PJA1
RAD51 RAD51AP1
DFFB TOP2A
EIF2AK2 CASP7
HSP90AA1 SRC
DLG3 KLHDC3
TNFRSF10A MOAP1
SRF SRFBP1
CAV1 PLD1
DVL3 PRICKLE1
BCAP31 YWHAZ
NOTCH1 MAML1

H3F3B CARM1
ALAS2 RABGGTB
CHST1 SFN
PPARD RELA
NGFR NDNL2
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NUP62 DTNB
KCNJ1 SLC9A3R2
CTNNB1 HNF4A
XPO1 CEBPD
YWHAG SHKBP1
BMPR1B BMP15
CTTNBP2NL MOBKL3
PLCG1 DTNBP1
CDK4 ASPM
NFKB1 MPP6
RPN1 GSTK1
MMP14 SPOCK1
ARID1A ADNP
PHC2 CBX8
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ACTA1 PHACTR1
RGS10 CALM2
PIAS2 GTF2IRD1
SUPT4H1 EWSR1
PGM1 UBA5
BRCA1 BRIP1
RPS14 TSC22D1
EIF5 CSNK2B
KRTAP4-12 CHCHD3
CASP8 OTUD7B
ATXN1 YY1AP1
PAF1 MAP3K2
TRAF2 HSPA1B
ITGB2 SEC23IP
TP53 TP53INP1
WDR33 WWOX
SYK PXN
ACTN4 YWHAZ
PRKDC CDC5L

CCND1 CDKN2A
RPS6KA1 PSD3
DAND5 PPARG
CHTF8 CHTF18
POLRMT NFKB2
SPTLC1ATG4C
MDM2 ZNHIT6
SMARCA5 BAZ2A
NR3C2 ACTA1
RALA EXOC1
TRIM24NR3C2
CCDC130 NINL
SKP2 DDB1
PRKCH OCLN
SETDB1 MOBKL3
IL6ST IL31RA
SLIT2 GPC1
EIF1B AASDHPPT
STON2 EHD1
DNM1 GPRIN1
SMARCA5 BAZ1B
MMP3 IGFBP3
MAGEB2 RARA
DGKA IL21
COPE COPB2
ITGB1 FBLN1
SLN ATP2A1
HLA-C PRMT1
DEGS1 SF3B3
NCOA2 TAF9
NFKBIB MYO9A
C19ORF57 EWSR1
CNBP HNRNPUL1
SRCAP ATG9A
TBP POLR3F
TP53BP1 PAXIP1
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H3F3B CBX3
DAND5 USP39
C14ORF1 KLHL20

CNBP FTSJ1
CCNA1 CDC20
EMD CUL4A
MAPK8 YWHAZ
GH1 DUT
XPO1 SNUPN
ILK PRPSAP1
SMAD2 KAT2A
SMAD2 KAT2B
OTUD4 FLNC
MLPH RPH3A
CCDC85B FAM13C
GRB2 HIBCH
TCERG1 BARD1
ESR2 MED23
CTNNB1 CHD8
PAK2 TRIM28
FRYL DISC1
CCT5 PPP2CA
PHGDH RHOB
SCAMP1 SNAP25
MTPN AKTIP
MME CSNK2B
PPP2CATRAAF3IP3
INSR PTPN2
SNAI1 SUZ12
POLR2F MED30
NUDT21 WWOX
SHC1 PKD1L2
UNC119 ASH2L
NTRK1 SQSTM1
LMNB1 SMARCA4
RARA TDG
VASP DNMBP
GBAS NIPSNAP1
NCK1 PDIA2
PLK1 TP53BP1
MCC TRMT112
EPOR SYK
MCM7 PINX1

NR2F1 EEF1D
VAMP8 PNN
CHEK2 GINS2
GIPC1 SEMA4B
RARA SNW1
GNAI2 NUCB1
PPP2R1A PPP2R2D
IPO13 EIF1AX
ADRM1 UCHL5
GRIA2 LGALS12
RB1 CASP7
ZBED1 NIF3L1
RB1 CASP6
MAX HDAC5
RB1 CASP9
SYT1 NRXN1
CALCOCO2 VPS72
DSC1 PRKAB1
SNW1 NR0B2
A2M IFIT5
ARIH2 UBE2L3
PDGFA EPCAM
WNT1 RYK
NCK1 LCP2
ZSCAN30 ZNF434
PTPLB PACSIN1
ATP5F1 VHL
MDM2 CWC25
PPBP CELF1
RAB4A MAPK3
ERC2 PPFIA1
RAB11B MYO5B
ESR1 SMARCD1
OMA1 ERBB2
TSSC1 MOBKL1B
PDPK1 PAK1
NUP214 DDX19B
TSG101 HNRNPUL1
IKZF4 IKZF3
HRAS RASSF1

CTTNBP2 FAM40B
TJP1 JAM3
RPS14 SMAD2
LRDD IKBKG
RXRA NCOA3
DEDD CCDC59
SLC9A3R1 ABCC2
SSB PRKAB1
ZMYND11 TRAF6
HDAC2 ZMYM2
IKZF4 IKZF2
SOX30 TRAF2
APP NCSTN
MCM4 ORC6
NUP214G3BP2
LPXN ITGA4
POLR3D POLR2E
TFPT PAWR
MMP14 CAV1
MCC PFDN2
CLTC NDRG1
DIMIT1L MAGED1
SPTBN2 MAP3K3
PRKCB EPB41
TOE1 PNN
ZNF354A HDAC4
YWHAB IRS1
PRNP SPARCL1
MMP3 CCL2
LGALS3 SHC1
PHLPP1 USP46
AR TRIP4
IARS NFKB2
AR JMJD1C
DAB2 NECAP1
RBL1 E2F1
GNAO1 SCN8A
PRPF4 PRPF8
DLAT PDK3
TNF BTRC

BDKRB2 AGTR1
EIF5B ETS1
DSC1 PKP3
LIMK2 HIPK3
SAP18 HDAC1
CASP10EDA2R
ATG7 SIRT1
ATF2 MAPK11
AR MED1
TLR2 TIRAP
SMAD3 SF3B2
RAD17 POLE
APP SHC3
NCK1 AKAP6
DCAF11 DDA1
OS9 TRPV4
TP53 CCT5
KRAS BCL2
FMR1 CYFIP2
E2F1 CEBPE
TUBB4 PHIP
GFI1B FBLN5
MED26 MED1
SMARCA2 HDAC2
DHX9 DDX20
MYOD1STAT3
DPH1 TP63
CIITA ZXDA
KPNA1 YWHAZ
HAX1 TNFRSF1B
DDB1 DCAF8
MAP2K1 PLK3
SNUPN KPNB1
YWHAZ PRDX1
TAF15 KAT2B
PPP3CBSLC8A2
STAU1 NCBP1
CRYABBCL2L1
RXRB VCP
PAPOLA REL

RARA RXRB
CD1D CALR
MED22 THOC7
NCK1 ANK2
MAP2K1 WNK1
DCTPP1 NIF3L1
COPS2 CPSF1
EIF4E SUMO1
POLR2B RUVBL2
LMNA TMPO
LMNA TMPO
TRAF3IP1 SMC4
CRKL RAPGEF1
CUX1 ELAC2
ERBB2 LRIG1
PIGC PIGQ
MTOR TELO2
UBE2K PIAS4
NCOA6 ZNF335
PRKCZ LARP6
IL2RG STAT1
STIM1 STIM2
IL2RG STAT5A
RXRB NR1H2
DLAT PDK1
PPIB WDR48
DLAT PDK2
NOL8 NIP7
SNX3 HLA-B
GNPTAB DISC1
DPP4 CXCL9
EPS15 NAGPA
PSTPIP1 WASF2
NEB TRIM63
C19ORF50 EWSR1
NPHS1 KIRREL
RNF103 VCP
SSB YWHAZ
RRAS2 SMAD3
HAP1 SRSF4

KIAA1279 ZNF670
RPL5 MDM2
INSR YWHAB
EIF3E RUNDC3A
CLPX C20ORF24
XRCC5 DHX9
UBC DAXX
RARA PIN1
DDX6 POLR1E
NFATC2 PIN1
RPF1 SMARCC1
POLR1C POLR1E
EGFR CBR1
ACTG1 SCIN
TRIM32ABI2
TP53 PRKDC
RHOQ COPB1
ADAM12 ACTN2
EVI5 FBXO5
CCL2 CCR1
TSEN54CLP1
LSM7 MYH13
CD82 VANGL1
STAG1 SMC3
MAGOH YWHAG
SDC3 SDC1
AP3B1 MEF2A
ENC1 RPS27A
TSG101 RNF126
COIL PIAS4
LAPTM5 HEYL
DHX16 SRRM2
DNAJB1 HSPA4
TMEM22 ACAP3
GFI1B TSPYL2
EEF2 RAD23A
GABARAP NBR1
SSTR1 SST
YWHAQ MEF2D
PDPK1 PTPN12

PLK1 PKMYT1
MTNR1A MTNR1B
FCN1 ELN
CUL4B WDR26
LCK WAS
HOXD12 MAFF
MT2A GRB2
GABARAP PI4K2A
WNK1 FAM65B
RBPJ CIR1
PDHX EWSR1
YWHAG SLC7A9
TMSB4Y EWSR1
BICD1 DISC1
PSMA3 CDKN1A
LYN LCP2
OGT CD40
VTA1 RABAC1
EPB41L2 ACTA1
PRDX5 IKBKE
CDK1 MKI67
CDK8 SMARCC1
RMI1 FANCF
HSP90AB1 SLC34A1
APLP1 SPON1
GP1BA FLNA
XRCC5 POLD1
CAPZB IKBKE
HOXA10 PBX1
ATXN10 MAGED1
KIF1B EEF1A1
TBPL1 PTC3
PIAS2 EPAS1
NCOA6 DPY30
PPFIBP1 COMMD7
UBR1 PTPRS
STAT5B TEK
JAK1 PIK3R1
PEX14 ZHX1
TRAF2 UBXN11

SMAP2 A2M
PRKCG ARPP19
NDRG1 CNDP2
FOS SUMO3
CDK1 HSPA2
ABL1 TOPBP1
PSTPIP1 CARS
CLPX BTRC
ITGA2 RABIF
GTF2A1 TASP1
ACTN4 TRIM3
C19ORF50 MAP1LC3B
GADD45G UTP14A
HP GRB2
NSF SCFD1
ELAC2 ASCC2
RANBP2 RAPGEF2
NPM1 RPGR
PPARG WDR5
TGM2 ZNF512B
CDC25A ROCK1
CLTC NFKBIB
YWHAZ ZNF839
TNKS TNKS2
NFIC ZCCHC14
ZNF821 CCDC85B
RAB27A KIAA1377
MATN2COL4A3
RPS27AUSP9X
MTNR1A GNA13
USP19 UNC45A
MYC SAP130
ZAP70 SLC6A20
CCNT1 ATAT1
YES1 CDH1
RXRG NR1H2
SUMO1 TMEM25
SMARCA4 NFKB2
RB1 KDM5B
PMPCB MARK3

CRK WASF1
AURKACDC25B
WDR48 NHP2
ACTL6A BCL7C
RPS27A NFE2L2
NRBF2 IKBKG
YWHAZ ING1
NFKBIA PIK3R1
UBE2N RBCK1
WAS PTPN22
PHACTR2 CRK
ATXN3 RPS27A
SF3B1 SMAD1
RBL1 BRF1
PLCG2 SH3BP2
TPI1 SETDB1
TBC1D4 YWHAZ
SERPINA1 PRSS2
XRCC6 VAV1
PTPN1 NFKBIA
CXADREWSR1
COL5A1 MAG
SERPINA1 PRSS1
FEN1 WRN
OTUD7B TNIP2
EEF1A1 SMAD2
SRSF3 RBM7
PPARGC1A MED16
HIST1H3J CRTC2
LYPD3 AGR3
SRC ARNT
EED ANXA5
HNRNPH1 CPNE1
JUND BRCA1
CDKN1B UBE2B
GMNN CDKN2A
PHB MAP1B
ABL1 CELSR3
ILF2 MAP3K14
PPFIA2 PTPRS

USP47 MED29
THRA POU2F1
MYF5 CALM2
SRC MLLT4
HCK ABI1
PPP1R15A PPP1CB
TSHB TSHR
NDUFB8 EIF2B3
PPP1R15A PPP1CA
PSMD10 HIST1H2BG
ITGB4 ITGA6
FN1 LACRT
SMAD6 STRAP
SNRNP200 CHMP1B
GADD45G PPARG
ARAF NEFH
NR4A2 ZNF41
EIF1B MRPL43
LRP1 MAPK8IP1
CXCR2 GTF3A
UBE2I TAX1BP1
AR SART3
HDAC4 ANKRD11
TPD52L1 GPR135
SMAD4 ESR2
CCL7 DARC
POLR3D POLR3H
COPS5 MALT1
C19ORF50 NIF3L1
NOTCH1 RBPJ
SMC2 NCAPG2
NFKB1 SPTBN1
PEG10 SIAH1
MAP2K4 MAP3K11
MAP4K4 BRCA1
CAMKK2 ESYT2
PIK3R1 KIF13A
HERC2 USP20
MYC BCL2
FOXG1 KDM5B

TP73 DAB2IP
GRB2 UBC
PLEKHF2 APPL1
NFKB1 E2F1
CDK4 CDKN1B
ETS1 SMAD3
UBE2U RNF41
KIAA0513 INTS4
ACO2 WNK1
CHGB S100A8
HMGB2CREBBP
TNFRSF8 TRAF1
STK25 USP36
ZNF238 DNMT3B
ZNF250 GOLGA2
HLA-B PGD
TRIM27PRAM1
CENPA PARP2
SIX3 EYA1
PSMC3 HTR1E
SOCS5 TCEB1
PSMD14 MCC
GRB2 DNAJB11
NFKB1 NONO
RANGAP1 SUMO1
PRKCA SYK
GRB2 GABBR1
PHYH RNF167
ATXN10 PHLDA3
TUBG1 MZT2B
HDAC1 SNAI3
FGFR3 ARAP1
ARRB2 FZD4
HSPB1 EIF4G1
SIRT2 KAT2A
SIRT2 KAT2B
GRIK5 GOLM1
NR2F1 BCL11B
AKAP8L MAGED1
CCT2 MAP3K5

SHBG AP1B1
ARHGEF15 C11ORF49
PCBP1 CELF3
AKT1 WNK1
SSRP1 MAL
ELN LGALS3
PRKAB2 PRKAG3
PTS ATR
SMAD3 RASL12
SIN3B COPS2
SIAH1 AFF4
SYN3 NOS1AP
MYC DHX37
KPNA1 TPX2
SSTR5 PEX5
ARF6 RAB3GAP2
RGS13 GNAQ
KIT CSF2RA
KCTD13 ARMC7
GOLM1 GEMIN7
SFN RPS27A
ITGB1 PXN
BAG4 HSPA4
SLC22A3 ABL1
TPI1 DDX24
ATR MCPH1
MAPK14 DYRK1B
IRAK2 IRAK3
NANOS3 ELAVL1
RBP3 NOTCH1
SOAT2 TRAF6
MAP2K1 MAPK14
CTBP2 RCOR1
SQSTM1 SMAD1
RPAP2 RUVBL2
SQSTM1 SMAD2
DDT HLA-B
RFXANK HDAC9
HNRNPA1 MAPK6
UBE2I RNF144B

MED18 MED13
RPA1 DMC1
RPA1 MCM6
IPO13 UBE2I
GABARAPL2 GABARAPL1
UBE2I DAXX
CASP1 BCAP31
RGS2 VPS29
CHEK2 TP53BP1
RAD17 H2AFX
MYL6 SRRM2
MAPK1 SCNN1G
TRAF2 PKN1
EPHB1 EFNB1
RB1 CDK9
PPM1A SMAD2
DLG2 SEMA4C
NKX2-5 TBX2
LSM10 ZNF473
PDGFRA SNX6
HLA-B HNRNPM
UBE2D1 RNF10
CLDN12 STRN4
MRPL15 SMURF2
IFNGR1 CANX
PLEKHF2 CHIC2
PRKAR1A SSRP1
ATXN1 STUB1
IMPDH2 UBQLN4
NHP2L1 MEPCE
NXF3 NXT2
ORC3 CBL
GSPT1 GABARAPL2
MSH6 SMC1A
GATA4 ALX4
TRAF2 CRY1
MAX HIF1A
EWSR1 POU4F1
ITGB4 ARRDC3
UBE2D2 SIAH1

ATXN1 PRRC2B
PROC THBD
HDAC3 PHB2
MYB MAPK1
CREBBP DAXX
ABL1 ABI2
PIK3R1 ABCG5
WWP2 SF1
TBC1D8 TRAF4
FBL CDK2
CLP1 CPSF3
TNFRSF8 TRAF3
SLC35B2 MCTS1
RBL1 USP4
TP53 TFDP1
MACF1 PLXND1
RHO GRK6
WEE1 SFN
PRRC2A HNRNPM
WEE1 YWHAB
MT1H DNAJC1
SRF PRRX1
TCP1 CCT5
DVL2 DYNLT1
BMP2 CES3
PTPN23 DDX24
CUL9 UBE2E2
EFS PLCG1
CASK GRIK2
PIK3R1 MED28
PIN1 KLHL20
USP47 MED9
COMMD3 ZNF337
KIT BCR
RXRA CNOT1
CANX MTNR1B
AXIN1 PPP2R5A
AXIN1 PPP2R5B
PTH MEP1A
TCERG1 LUC7L

GABRR2 SQSTM1
ERBB2 DOK6
KBTBD6 MAP1LC3C
CSF1R CSF1
HDAC3 KLF6
TRIM27UBE2A
HERC2 RNF11
PLCG1 TRAIIP
BLM ATM
TMEM62 ZNF287
NCK2 WBP11
SLC16A10 RACGAP1
ADCYAP1 CPAMD8
TCP1 PDCL
SREBF2ZCCHC7
PARP1 NFKB2
AP1B1 AP2M1
BCL2L1BNIPL
TYK2 JAKMIP1
KDM1ASNAI1
AP4M1 TGOLN2
RABIF CCBL2
HDAC3 HDAC9
VAV1 TEC
HSBP1 RB1CC1
HNRNPH1 YTHDF2
NME4 TRIP13
IFITM1 CD81
CASP3 NUCB2
ACTA1 OCLN
IRF2 PRKACA
YWHAQ PDK1
XPO1 RAN
YWHAZ NFATC2
AP3D1 VAMP7
ATXN3 EWSR1
RHOG SMAD1
ZZZ3 ZNF182
PDPK1 PTK2B
HSP90AA1 C8ORF41

PSMC5 PAAF1
GABARAPL2 ATG10
PLEKHF2 PLDN
USP54 CHMP1B
TGFBR2 ARHGEF6
APC KIAA1328
YAP1 YWHAZ
TPT1 HLA-B
SRF CASP3
RPS9 NDRG1
HTATSF1 CDK9
GAB2 ARHGAP32
RAB3C RIMS2
STK25 CTTNBP2NL
RANGAP1 SUMO3
IRAK1 MYD88
TLE2 CUL4B
FLT1 GRB2
CKLF FBXW7
HDAC4 HIF1A
TRDMT1 DDX24
BCL10 KRT33B
ELF3 AKAP9
FMNL1 PFN2
UBXN1 SMAD1
IRAK1 MAPK14
TLE2 CUL4A
TRIM24HNF4A
FSTL1 APPBP2
EIF4EBP1 CHTF8
TP73 HECW2
AR NFKB1
PEX5 DDO
AR WIPI1
TRIO PHLDA3
WDR5 ZNF335
ADD1 SPTAN1
CBX2 USP7
TRIP10 FNBP1
KRT15 MCM10

NCK1 CRK
CHM RAB18
TAF12 TAF2
SSB ARFGEF1
SYK CBLB
FANCA FANCL
BTF3P11 VTN
MED24 ESR1
ATP5A1 MAP3K3
PSMD7 PSMD6
EDF1 CREB1
ABL1 CREB1
PRKDC MKNK1
MEIS1 HOXA2
SHC1 SPOCK1
SART3 C3ORF17
SMAD7 BMPR1A
TUBB TUBA1A
SRC YWHAH
SHPRH FBXW7
SYK PTK2
COL2A1 DDR1
SRC MST1R
FBN1 TGFBR1
KRT18 TUBGCP4
PHB2 FTSJ1
SMAD7 TGFBR1
NPM1 HDAC2
SMAD7 ACVR1B
LCK CD48
CBR1 DDA1
LEP GHRL
SMC2 LIG4
KAT2B TAF9
H2AFX HIST1H2BM
DTNBP1 DTNA
NLRP1 NOD2
HR HMGB1
CCNK USHBP1
HSPD1 MPST

MET MUC20
TPR TRAF6
USHBP1 RIBC2
IFRD1 HDAC2
GC LRP2
GTPBP1 LRP1
MYOD1SMAD4
EIF4G3 SHC1
ACHE COLQ
TAP1 PSMB8
ATRX EZH2
PRKX PKIA
HNRNPC ILF3
SATB1 CHD4
YWHAQ PRKD1
TPM3 TMOD1
HAVCR1 SEMA4A
SGTA NME3
NSF NAPG
DST EXOC1
CRK CRKL
TNFSF11 SRC
MTOR RHEB
CD80 CD86
POMC MC5R
HNRNPK CARM1
ELF4 KDM5B
RPS27AE2F4
CTCF SMAD4
TFEC TFEB
TANC1 CAMK2A
HIRA UPF1
ACTA1 FSCN1
UBE2E1 RNF25
EEF2 PPP2CA
MMP1 ITGA2
RTCD1 COPB2
GRB2 NFKBIL1
NUP155HDAC4
KAT5 FOXP3

SH2D4A DBNL
PARP1 SENP3
F2 AMBP
CETN3 USP49
ADAM9SH3D19
RFC1 ATM
GRN DLK1
SMAD4 CREBBP
SAE1 TRAF6
RBBP7 GATAD2B
HSPA13UBQLN4
CFTR AMFR
SAP30L FEZ2
CCDC87 RUVBL2
CCNK KRTAP4-12
GSK3B PRKCZ
SNX3 ATG5
ERCC3 GTF2H1
CDC42 GTF3A
TP53 SMARCD1
UBE2K TRAIIP
PTEN PTK2
TP53 TOE1
AP4M1 GRID2
DLGAP3 GRB2
CCDC87 RUVBL1
HSP90AA1 CDC37
CBS VTA1
PRKCB GABRB2
RELA AKAP8L
PDGFRB STAT5A
PDGFB COL1A1
EEF1A1ITSN1
SMARCA4 HSF1
NRIP1 CARM1
NR3C1 CREBBP
STX7 ENTPD2
H2AFX HIST1H4I
MAGOH RNPS1
H2AFX HIST1H2BG

CREBBP MKNK1
PEX14 NFE2
CDKN1B SKP2
PROC PROS1
TSSC1 SERBP1
ATXN1 DZIP3
RIOK3 PSMC4
RBMX CDC5L
SETD1A WDR82
NEFL PIAS4
GRIA3 DLG4
SOAT2 PRKAB1
PDGFRB STAT1
SEPT9 TRAF6
EGFR AGTR1
PLCG2 PRKD1
EXOSC6 MIF4GD
PIK3R1 DUSP15
CLTC TRADD
NPHP1 FLNB
PRKCZ ZNF488
GRIPAP1 SMURF1
DNMT1 WNK1
CLK2 YWHAG
AIRE MSH2
UBE2W TRIM39
RASA1 GNB2L1
MTMR8MTMR9
POLR3D NR2E3
FEN1 ENDOG
SHMT2 TNFRSF10D
SIRPB1 TYROBP
TBP CREM
DES NEB
PTN BARD1
TRIP13 CYB5R2
POLR3C GTF3C4
PAFAH1B3 SDCBP2
POLR2C POLR2H
GNAQ RIC8B

YWHAH TSC1
TGFB1 MMP2
PHLPP1 SCRIB
HLA-E B2M
SOCS1 ITK
PTPN6 LILRB4
HNRNPH1 MEPCE
AKT1 PEBP4
RNASEH2A SMAD3
PAX3 DAXX
STK25 TCP1
CRYBA2 CRYBB1
ATG12 RPL36
TLR2 LY96
ZFYVE9 SVEP1
SMAD3 IL1F7
ADAMTSL4 TUBGCP4
TTR HNRNPH3
PDIA3 STAT3
SSB TRAF6
PCNT AKAP9
ZNF434 ZNF167
SRC TRPC6
JUP PSEN1
PPARG CNOT1
MAX MAPK14
APPL2 APPL1
FRS3 BMPR2
DOK2 EPO
UBE2I CLTC
LIN7C SPATA2
BCAR1 SRCIN1
TLE4 MSX1
SHC1 PTPN12
PRKACA CIITA
PRKACA NUP85
LSM1 NDUFAF3
ENO1 PCNA
HDAC3 INSM1
RAF1 COPS3

ZFP36 MAPKAPK2
MINK1 PKP4
HSPE1 EEF1A1
PLG ATP5B
PTPN6 LILRB1
PPP2R1B SGOL1
TGFB1 TGFB2
SEPHS1UNC119
NCK1 DNMT1
MYC MAP2K1
DNTTIP2 HIST1H2BA
PTK2 TRIM9
TOB1 CNOT2
GFI1B PHC2
TAF1 SUB1
EXOSC6 LSM7
CDC42 TAF15
MPPED1 DISC1
GBP2 PAFAH1B3
CEBPB SMAD3
PDX1 PCIF1
MET ITGB4
LIMK1 YWHAZ
SRC RPL10
COL1A2 CD36
TEC STAP1
KPNA1 PRPF19
CYFIP2 PACSIN2
A2M ELAVL3
ATXN1 IRF9
OTUB1 EBNA1BP2
PDCD6 PEF1
RB1 RBBP8
ATG2A MAGED2
CYB5A TRAF6
PIBF1 MAP3K2
INHA INHBA
SMNDC1 FDFT1
CRMP1 EPN1
IKBKB FLNA

CATSPER1 EFEMP2
UGGT1 SUSD2
CLOCK EP300
HMGB1 PTPRZ1
SYT1 RIMS1
CENPT PPCDC
RAB5A RIT2
CBL SYK
RHOB ARHGEF1
ZNF165 EWSR1
CBL ZAP70
HSF1 MTA1
TFE3 PSMD1
STAU1 INA
TOP3B ZNF408
YWHAZ HDAC9
ATXN1 C1ORF94
XRN2 TOLLIP
CDKN2B ARPC3
CHEK2 VCP
CDK9 AFF4
EPHA2 TIAM1
FXD1 PAM
RPS6KA5 YWHAZ
CUL3 ABTB2
ARNTL RXRA
TH YWHAZ
EPS8 HOOK2
MBP MAPK14
OLFM2 PKM2
CD40 NCOA6
GIPC1 TGFBR3
ULK1 RB1CC1
TRAF2 CASP12
NAA10 NAA16
CEACAM1 PXN
ATP5A1 MAP3K14
CDC123ZNF512B
PFKFB1GK
MAX TAF9

FYN EVL
CD4 SYK
CDK1 FOXM1
CRABP2 CCND3
MED15 MED10
EEF1D SET
CLDN1 MMP14
CBFA2T3 ATN1
FUS SF3A2
EPOR BTRC
CFLAR FBL
PRKAB1 TARSL2
APAF1 TRIAP1
TFDP1 E2F2
RNF103 UBE2D1
TOP3B CENPF
NUP153 XPO7
MAGEC1 ATP5L
POU2F1 HOXB13
RAF1 HSP90AA1
STK4 MAP1LC3B
PTPRF FRS2
HSPA9 MAP3K1
CCKAR CCKBR
TRPC3 TRPC5
SNIP1 ZMYM2
GH1 UBE2D3
RAB6A GDI1
HNRNPH1 RIPK3
CHRM1 GPRASP2
TSC1 RAB11FIP5
HNRNPH1 SREK1
IFRD1 CTNNB1
RPN1 ADRM1
ATG16L1 ATG3
USP19 SAAL1
HIST1H3J TAF1A
PIK3R1 NR5A1
UBE2G1 DIO2
PALB2 RBBP8

LCK RPS27A
LZTR1 SCMH1
MSH2 ATR
NR3C1 SMARCC1
KRT15 PSMC5
GNAO1 KLHL3
UQCRB MAGEA4
UQCRB MAGEA1
ULK1 GABARAPL1
HDAC3 RUNX1
ZZZ3 IKBKG
RB1 CCNA1
APPL2 RAB22A
ADRA1D NOS1
NFKB1 PCBP2
SASH1 MED28
MAPT PPP2CA
RANBP2 FHOD1
SERPINH1 EMID2
NR3C1 PTPRN2
UBE2I SETX
PSMD10 PSMD1
ITGA6 RABIF
NOC2L MAGED1
EZR PTK2
IK KAT5
STRN SIKE1
ARRB2 CYTH2
PSMA3 HHEX
EGFR RAP1GDS1
SEC24DCDK18
UBA1 TAF9
CCT2 MAP3K3
HNRNPK ITK
TEX11 TSC22D4
UBE2L3 DTX3
ADAM15 SH3RF3
PPARG NCOA1
DNM2 MPP6
NAP1L1 ATG5

ZNF24 DNER
EPHB6 CRK
RFX2 MDFI
PCNA MDH2
EPHB6 CRKL
UQCRQOPTN
GAPDHNPAT
SRC CDK5
MAP3K1 TIMM50
RXRA ZNF423
TFPI2 SMURF2
HSPA2 MEPCE
FBLN2 BCAN
H3F3B DNMT3L
HLA-A SRC
ANK3 SCN2A
BAI1 BAIAP3
RING1 CBX2
PIK3CARASGRP3
KAT2B KLF13
TRIP4 NR2F2
PCNA RFC5
PCNA RFC3
UBE2E1 RNF166
FGFR1OP2 ZRANB1
RELA MED23
ATXN10 STYXL1
MED26 POLR2F
E2F1 RING1
CSF2RB KDR
MED26 MED22
RPS16 DDX56
RGS19 GDE1
SETDB1 HDAC2
SLC2A4LEPREL4
RABEPK PIKFYVE
WDR48 WDR70
APOBEC1 A1CF
CDK9 NUFIP1
MPG RAB7A

CD4 ZAP70
MED1 MED20
GPS2 CNOT2
CLTC MAP3K10
STAM2 JAK3
CDC42 INSL6
MAP3K14 STUB1
PPP2R1B NFKB2
RPS6KB1 PDK1
MAP2K4 MAPK14
MAPK14 TRAF6
RB1 ARID3B
EIF1B EIF2S1
KDM4AKDM4C
CDH1 HDAC1
FGR IKBKG
ITSN2 BCCIP
ARHGDI1 SUMO4
RPS14 TH1L
TUBG1 CNTN2
HIST2H2BE HIRIP3
CHN1 CDK5R2
TXNDC11 DUOX2
TXNDC11 DUOX1
F2 FGA
VIM YWHAZ
SRC MED28
FAM40A FGFR1OP2
MPG CACYBP
MOBK13 CTTNBP2NL
MITF LEF1
TRAF7 MAP3K3
RPA2 RAD51
ACTG1 TRAF2
TEC ASAP1
RPAP2 GPN1
TAF1 MEF2D
SNRPF SNRPD2
EEF2 YWHAZ
ACTN4 PTPN6

SMAD9 CHPF
COPS8 COPS4
YWHAZ ARHGAP21
EED EZH2
STK16 IKBKE
ITPR3 CABP1
LDOC1 GNL3L
AIP PDE2A
SYK LCP2
PXN PTPRH
ATG12 MRPS23
PRKCQ BTK
SUMO2 POGZ
RORB NRIP2
S100A9 ASB3
PARK7 ARX
STIP1 TRAF6
HDAC2 BCL11B
TCP1 MAP3K1
DAZAP2 CCDC120
KCNQ1 KCNE2
TGFB1I1 SDC4
DLG4 NDOR1
SMAD9 KIAA0226
FAM175A UIMC1
NEK6 FANCI
PIK3R1 CBLB
SAFB RB1CC1
CCL16 CCR2
CCT6A PPP2R2C
KRT18 MAPK14
MCC CSNK1D
PDIA4 IKBKE
SNRPB KHK
ABL1 NCK1
H2AFJ HDAC1
PDZD2 NRXN1
RFC2 RPS27A
PRKCA MYLK
HSP90AA1 TGFBR1

TMPO AKAP8L
BSG PDLIM7
SRC DUSP15
HSPA4 MYST3
IKBKB HSPA9
SMAD9 ZNF592
ARRB1 MAPK7
GRIA1 CAMK2G
PDGFRB PTPRO
NBN DCLRE1C
VIM ATN1
PARP1 SUMO1
HMMR CALM2
ACTB CAP1
WBP4 CHERP
RAF1 STUB1
FHIT LEF1
HSP90AA1 FLT3
HSPA4 HDAC2
MAPKAPK2 HNRNPA0
RARA GADD45A
PRKAR1B WRN
ARHGAP33 FYN
WEE1 BRSK2
YWHAZ EEF1A1
MEIS1 HOXC11
SMAD1 PLEKHB1
PCNA MCC
RB1 GTF3C2
HOXD4 CNOT7
ACTG1 CAPZA3
PSMC3 USP14
EGFR KPNA1
HSP90AB1 MTHFD1
VAV1 CASP3
ERBB2 SH2D2A
DLG4 ACCN3
NOC2L PHLDA3
ELAVL2 ELAVL3
FYN YES1

BRCA2 SMAD2
YWHAZ WDR77
KIAA1279 PLEKHF1
RANBP2 ARFGEF2
RPL38 CHMP5
PAK2 PSMB7
RALYL C20ORF27
TGFB1I1 HSPB1
DRP2 PRX
CIAO1 WDR5
KRT36 USP8
SMARCA4 ARID2
ERBB3 JAK3
IMMT KIAA1377
LPAR1 ARHGEF12
GNAI2 OPRD1
CUL4A SAP130
ITGB2 CD82
GRIA1 SQSTM1
TECPR2 GABARAPL2
CAMK4CREBBP
VHL CCT3
BRCA1 UBE2D3
TCN2 GRB2
CDC42 CDC42BPG
EXOSC8 LSM7
DEK HIST1H3J
SLC25A22 PSMD13
SPTA1 ENAH
IFNAR1FBXW11
IKZF1 IKZF4
ITGB1 PRKCE
MAD2L1BP EEF1A1
TLR5 MYD88
PRKACA GNA13
ACTR6 STRAP
XPO1 RPS27A
PTN FEZ1
MEF2C MEF2D
PIK3CATICAM1

NCOA6 MED23
PDGFRB PIK3CA
ACVR1 WDR61
SS18L1 ATF3
HCK BCR
PRKCA PLD1
WEE1 PLK1
HDAC4 CAMK4
TNFSF11 TRAF6
VIM DYNLL1
THOC4 LEF1
IKBKB HSP90AA1
FYN HSP90AA1
UGDH AK5
MTA2 CHD3
SOX6 DAZAP2
MLLT4 YWHAG
MSN IKBKE
SMAD1 ZBTB44
TP53 DNMT1
FCGR2B GRB2
ERBB4 HBEGF
BAG3 SRC
PRICKLE3 NCK1
WIPF1 WAS
HSP90AA1 HIF1A
ZBTB16FHL2
PLD2 PTPN1
PFDN1 INSL6
XPO1 NRIP1
NUP62 NUP98
MAPK10 DUSP16
GEMIN6 DDX20
PTPN1 SUMO1
KRT1 KRT5
MED7 MED29
PINX1 RPL36
KBTBD6 GABARAPL1
MEIG1 SPAG16
USP5 PMS1

EFS GRB2
DYRK1A CCNL2
FYN LRBA
ELMOD1 THG1L
PAK2 RNF2
H2AFX BARD1
VIM RELA
MAGEB2 MAD2L1
FBN1 MFAP5
HNRNPAB TP63
UBE2G2 UTP14C
MLH1 PPP2R2D
HMGB1 AES
OLFM2 NBAS
INSL6 PIAS4
SMARCA5 HIST1H3J
FYN BAZ2A
IRF2 IRF2BP1
MAP3K14 EDAR
DDB1 TOR1AIP2
IKZF4 HDAC5
HSP90AA1 RELA
EPB41 TMEM33
PLSCR1 RERE
RET MAPK14
CASP2 GOLGA3
AKT1 TRIB3
MAPT RPS6KA3
MYH14 TRPM6
BTG2 POPDC2
BAG6 FAM46A
RPN1 DPF1
PPARG LGALS12
NFKBIB ZNRD1
C3 PAPP
LDOC1 DPPA4
CST4 SOD2
MAP3K3 DNAJB4
RELA EP300
XPO5 ZNF346

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MAPK8 RASSF1
ODF2L KIAA1377
CDKN1A HAUS1
VPS37AVPS28
ABL1 LRIG3
DEDD RSRC2
SCG2 UBQLN4
YES1 PTPRE
BCL3 GSK3A
BCL3 GSK3B
ILF3 MEPCE
SNAPC1 SNAPC4
MYBPC3 ALK
COL3A1 MYOC
IGF1R IGFBP3
MZF1 FHL3
PGRMC1 ABCD3
EMD G3BP1
SUMO2 RBBP7
MEGF6 MFAP5
MYH9 CCR5
PTN DNAJB11
ADRA2C EIF2B1
UBE2L3 CCNB1IP1
RRAS BCL2
TOP3B KRTAP4-12
FST INHBE
FAM13A ATF2
ATXN1 ZHX1
ICA1 MKKS
SGPL1 TMBIM4
RBP1 SIRT2
NUP205MAGED1
TBX19 NR5A1
COL4A5 FBLN2
UBE2U MIB1
USP1 TAGLN2
UNC45A BRF2

FES MDFI
NCOR1 CNOT2
MTIF2 CSNK2B
AGL RASSF5
RANGAP1 SUMO2
OMA1 PLCG1
MDM2 C1ORF173
VTN PRKCB
FHL3 ADAMTSL4
LZIC IKBKG
RFXAP HDAC4
MAGEA11 ENOX2
EIF3A DISC1
GABARAP KEAP1
TUBB NCOA6
YY1 ILF3
GCHFR GCH1
USP39 RG9MTD1
SUMO2 TUBB2C
GZMB PTK2
GRIK3 GRIK5
IFIT3 CCDC67
RER1 HAP1
SRC HNF1A
PLK1 CTBP1
AKT1 TOPBP1
CLDN3 POM121
GABARAP SAFB2
DVL1 DAB2
HTR2A GNAQ
CFLAR EPPK1
ERBB4 LRIG1
GSN CASP3
IRAK1 NTRK3
TIE1 PTPRJ
SRC CAST
LCP2 VAV3
MED7 MED9
PPFIA2 PPFIA1
H2AFX CFL1

APC2 ANAPC7
MSH2 CREBBP
CENPA HIST2H2BE
RB1 ARNT
KIF4A HMG20B
DLGAP3 PIK3R1
BTK ARID3A
PTPN11 GRIN2B
DLGAP1 SHANK2
USP54 VPS24
RGS12 PLCB1
CD74 CTSF
RBL1 PPP2R3A
EMD TRIM28
MSN SELPLG
PRKCH SMARCA2
PTN PTPRS
RTN4IP1 WBP11
PRKAR1B SMAD3
C5 C2
SETD1A CREBBP
OLFM2 ROBO2
DARS GRB2
XRCC4 APTX
NFKB2 USP9X
BIRC5 CDCA8
POLR3D POLR1D
BTK MYD88
ARHGDI1 IGF2BP1
PDHX FAM3A
PSMC5 ATG4C
KIAA0649 CELSR3
CDC7 DIAPH1
RANBP2 AKAP13
PIAS1 SIAH1
DCP2 UPF2
PRKCI RAC1
SOCS3 IL12RB2
ARNTL PER3
XRCC6 ILF2

VAV1 EZH2
HSP90B1 SMARCC2
GAPDH CDKN1A
SORD TNIK
RPS6KB1 NCBP1
NFKBIB NCOR2
PIAS2 SREBF2
TP73 CDK2
POLR3D POLR3K
ATG12 DDX6
CKM MYOC
MCC PSMD8
SRC GIT1
TLX2 MCM4
MAPK6 MED12
UBE2U RNF114
ERBB3 TNS3
UBTF TAF1D
MDM2 RRM2B
VCL C19ORF57
PRKDC NFKB2
RTN3 FXR2
TLR2 MYD88
SMAD4 COPS5
ETFA IKBKE
PCBP2 MEPCE
CCND1 RBL1
KRT18 YWHAH
SOCS3 MAP3K5
DNM1L SIRT3
GSN TNIK
SRC WBP11
HDAC2 HOPX
RAB5A GDI2
SHC1 DDR1
ZFH3 NINL
MT2A PRKD1
PSMB3 PSMB2
ZNF259 CDK5RAP2
RPA2 CCNO

SHBG COL1A2
SIN3A DEC1
SNAP91AP2B1
ABCD3 CLN3
NXN USP3
NR3C1 PBX1
HPS1 HPS4
MCM3 SUPT16H
GTF2E1MDM2
TDP2 ETS2
NFKBIB SRPRB
VAV1 ZYX
DLG4 LRP1
TNF TBK1
NADSYN1 CUTC
USP19 SUCLG2
BCOR RYBP
MCC GCLM
TLR4 PPP4C
EEF1A1TGIF1
NAP1L1 SMAD2
MAGEA1 HDAC1
PAX8 SERINC1
CDC6 CDT1
HIST1H3J PARP10
VIM BRD1
ZNF205 TRAF2
POLR2K POLR2G
GAS7 KHDRBS1
HGS MEST
CAV1 TXNRD1
TNNT2 MAP3K5
CLASP2 FEZ2
NDRG2 CTDPI
TH MAPK3
TNFRSF1B PRKDC
GLI2 ZIC1
TF CALR
PRKDC HSF1
SRSF2 ZRSR2

CDK1 HMGB1
SMAD1 TCF20
FYN FAS
GCN1L1 BRF2
IFI16 TMEM173
PLIN1 PRKACA
MTHFD1 HLA-B
F8 PROC
NTRK1 PTPN6
TNR BCAN
TNFAIP3 TRAF1
NTRK1 SHC1
CASC5 MIS12
CCNB1 CDC27
KRT1 TJP1
ZFC3H1NINL
WDR5 MYST1
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SNRPD2 GEMIN5
BRCA1 CDK8
PAFAH1B2 CCT3
MAGEA1 SNW1
BT3P11 TNFSF10
FLNA CRK
MEIS1 HOXD11
GPSM2 SREBF2
S100A8 PDCD11
SRGAP2 WAS
NONO PLEKHF2
MBP COLEC11
TP53 SIRT1
EGF CPM
BCAR1 CD2AP
CRHR1 UCN3
CD3E CD79B
CCK CPE
MBP TLK2
GFAP COL16A1
YWHAG FAM76B

HNRNPH1 TOB1
NFKBIB IKBKG
ATXN1 GPATCH8
CYFIP2 PACSIN3
DHRS7B MED19
YWHAZ PSMD2
CCR2 CCR5
NFKB1 TNIP1
HIC1 SIRT1
NFYC SMAD2
PRKAB2 GCN1L1
CREB1 RPS6KA1
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SOCS3 IRS1
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SF3A2 SF3B2
CTNND1 PTPRM
CCNH MNAT1
MX1 TRPC4
CTNNB1 CDON
SETD1A WDR5
SPARC MEF2C
ZEB2 SMAD5
MMP7 HBEGF
RASGRF1 NTRK2
INSL6 GIT1
CAPZA1 ATG5
SPTB MAP2K5
EXOC4 EXOC7
KRT6A CCDC85B
MAP3K12 MBIP
UCHL1 NEDD8
HSPA1B RAPIA
RARA STAT5B
MED25 MED11
EPS15 UBE2E1
NF2 SGSM3
PRKCA PAM
MITF CTNNB1

HECW1 USP7
CREBBP EBF1
SH3KBP1 MAP3K4
CCDC85B RBM7
CASP7 GORASP1
RHOC ROCK1
MAPT YWHAZ
ADD1 CASP3
KDM4ANCOR1
TBL3 ITSN2
CHAF1A TRIM28
CLSTN1 PSEN1
CRKL GAB1
ERBB4 ITCH
SRC PALM2
SQSTM1 SMURF1
YWHAZ HIST1H3J
RB1 SMARCB1
AKAP8 MCM2
ATF1 CAMK1
QARS TRAF2
CFL1 TXNDC17
RFXANK RAF1
EPOR NOSIP
DUSP11SRSF7
PDIA3 ERP27
CEP57 MEGF10
PTPN7 MAPK14
NUMA1EPB41L1
PSEN2 CSNK2A1
NCK2 HNRNPK
BRD4 CDK9
PPP6R3 USP21
HSPA9 TRAF1
MYO1CRRN3
LSM1 N4BP1
EGFR EZR
SORBS2 PTK2B
RPF1 UBAP2L
PPP2R1A GPRIN1

CUL4A CDT1
ATXN1 GMEB2
HSPA1B RBX1
PSMF1 RBFOX1
TIMM23 PTP4A3
HLA-C B2M
POLD2 POLDIP3
HCLS1 HS1BP3
ZNF585B RIC8A
RHOA RABAC1
FSCN1 MYO10
XAF1 BIRC7
PRPF4 RBM42
WDR5 WDR26
ETS1 CAMK2A
GPSM2 INSC
COIL SART3
ARID1A CUL2
SRC DLGAP4
MAP2K3 MAPK8IP2
PRKCA GRIN2B
INSL6 KLHL20
NDUFS1 CASP3
IFRD1 RIT1
EIF2S1 CASP3
DSPP CDH5
NR3C1 PHF3
IL8 DARC
PRSS23 B2M
BLM ATR
EEF1A1 RNF10
MAML1 NOTCH4
PIPOX ODF2L
H2AFX DHX9
KNG1 KLK1
CSF1R SRC
RPL30 SMAD2
CD53 IL2
CTSL1 SERPINB3
LAMA4 ZHX1

CDK8 MED19
ARL6IP1 FBXW7
RFC1 HDAC1
H2AFJ CUL3
SMAD4 DCP1A
CDC42 KAT5
YWHAB UCP2
KCNA5 DLG4
SPOP RXRB
XRCC1 MPG
SKIL RPS27A
MSH2 ESR2
TBC1D10C PPP3R2
RECQL4 PRSS23
ZNF24 C7ORF64
SF3A2 PRPF8
F12 KRT1
PPP1CAID2
SIN3A TOPORS
GADD45G ESR1
TSPYL4NINL
COL1A1 NID2
OPRM1 ADRBK2
TRIM24NR3C1
PRKCA RPL10
MEPCE IGF2BP1
PCGF2 RING1
MUC1 SIGLEC1
ASCL1 UBQLN1
ZNF263 SPG21
RELA C3ORF63
PRKDC DDA1
MYL6 USP18
TRAF3 MAVS
YWHAZ TRIM28
BBS4 EXOC7
ERBB2 SH2D3A
KNG1 CAPN2
PLOD3 CCDC85B
HNRNPA2B1 VHL

PEX2 C14ORF1
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HIP1 CLTCL1
IKZF1 IKZF5
CDK1 DNM2
ARNT GTF2F1
NXF1 RBM8A
RXRB MCFD2
APC PXN
ADAM12 PIK3R1
YWHAQ CALML5
RRAGARRAGC
PIK3R2 TGFBR1
RAB10 MFSD1
CD3EAP TBP
PCBD1 GORASP2
SNRPD2 EPB49
HOXD13 SMAD2
TLX3 ING4
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HOXD13 SMAD1
CCR2 CCL11
BUB1B HDAC4
GRINL1A THAP1
WDR33 UTP14A
PRKCA GRM1
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MRPS25 DDX56
TPR NUP205
CDKN1A HDAC11
HRAS IRAK1
MEIS1 HOXA10
OGT TRAK2
LYN IL2RB
UBTF IRS1
BCAS1 RUVBL2
SRC EPB41L3
MAML2 NOTCH4
ESR1 MSH2

PKLR USPL1
ATM TIPARP
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HLA-B RUVBL1
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SPTBN1 MAPK14
USP1 CALML3
MEIS1 HOXA13
HAUS1 CDT1
MEIS1 HOXA11
TLX3 GTF2A1L
MEIS1 HOXA7
SLC35E1 FXYD6
CUL4B SMU1
NFKB2 TSC22D3
ATG12 ATG4B
HLA-B B2M
CASP3 CASP8
BNIP3L EWSR1
ESR1 PRDM2
SREBF2ZFP106
CCND3 MAF1
WNK4 STK39
ATG12 AUP1
PRKCG NOXA1
YY1 TFPC2
CIB1 PLK3
LCP1 WNK1
CCND1 RBX1
PRPF40A DDX46
RHPN2 SMURF1
OXT ESR2
REEP5 LETMD1
ZAP70 PTPN22
DYNLL1 ACTC1
HIPK3 ZNF107
RELA CAMK4
TRIM27UBE2J1
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SQSTM1 SMURF2
RECQL5 TIMP1
ERBB2 PICK1
PIAS1 SUMO2
APOE APP
PSMD4 SREBF2
TRIM37TRAF2
TOM1L2 TOLLIP
BMP2 ACVR2A
SNCG MSN
TRAPPC2L C5ORF44
BLM APITD1
TLR2 TICAM1
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ABCF1 WNK1
CDKN1B UBAC1
CASP8 CASP8AP2
ABL1 NCKIPSD
PRSS23 NIPBL
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PIN1 REPS1
IKBKB TNFAIP3
HGS GGA1
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RIBC2 EFEMP2
PRLHR LGALS12
TNF BGN
HSP90AB1 NANS
SREBF2HIPK2
NCK1 PTK2
PAX8 C4ORF43
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KLC1 PLEKHM2
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ESR1 FLII
NCOR1 TAB2
FES FKBP4
GPRIN2SFN

XPOT NUP214
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BAI1 MAGI3
PRKACA HDAC8
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RSL1D1CNBP
ZNF512B TNKS2
SHBG APOBEC3C
PDLIM7 PAK7
BCAR1 ID2
GLDC TLR10
YWHAG WWTR1
LIG1 RPS27A
BCL10 COPS5
FUS SRSF4
ABL1 SEPN1
MAPK12 GRB2
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TFEC TFE3
RARA EP300
SNRNP70 SRPK2
ZBTB25PCBD1
HADHBSQSTM1
HIST1H3J CDYL
BTK BLNK
CBL FNBP1
TF CANX
FBXW4 CUL1
CCNB1 CDC25A
NR1H4 PRMT1
COMMD1 COMMD4
HRAS SNRPE
RARG HMGA1
NFKBIB KIAA1967
DAZAP2 ZC3H10
DAND5 NFYB
MYB SUMO2
ERCC3 XPC
AES SIX2

ZAP70 SOS1
CTSG SERPINB13
BCR DLG1
NPM1 YY1
NR3C1 HDAC2
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BTK PIP5K1A
RXRB NCOA1
AHSA1 HSP90AA1
UBE2U RNF10
ERBB2 SHC1
YWHAB PI4KB
PRKACA KCNJ12
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WDR18 USP42
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RGL2 RAC1
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MSH2 ATM
MTOR PRKCD
CNTN1 ANK3
NFKB1 UBE2K
KRR1 USP49
KRAS FNTA
ZBTB5 PPARG
ETS2 NCOA3
NR1H3 NCOA6
YWHAZ EDC3
CD44 COL14A1

ZNF197 HIF1A
TP73 MYL9
SRC APOL5
YWHAZ SYNPO2
SH3BP5SOS1
AHCY PAK2
AR ZBTB1
TRIP6 SMAD1
YES1 KDR
STC2 EIF2B3
DVL2 AP1M1
NFKB1 UBE2D3
HLA-A HLA-B
INSIG1 VAPB
SRC RPS6KB1
TRIM31IKBKG
TCEB3B SOHLH2
KCTD13 KCTD10
GOLM1 ZFAND3
GORABRCHY1
NCK2 KIAA1217
RAB11A RAB11FIP1
ARRB2 MAP3K5
PIK3R1 GAB1
LDLR DAB2
ZNF24 SEC62
NOTCH1 MEF2C
F5 CALR
NCK1 CCR10
CCNB1 CDC25C
A2M GCDH
AR NISCH
TUBGCP3 BTRC
PRC1 RACGAP1
YWHAZ LARP1
FUS SF1
RBL1 ACTR3B
LAMA5BTBD10
HNRNPR BMPR2
SP110 NAP1L2

HIPK3 MBD1
ITGB1 CSF2RB
SRC PTPRE
FOS AGTPBP1
HLA-A HLA-B
TP53 ATF3
HIST1H3J ASF1A
GRAP2 ERBB2
PRKAR1B AKAP1
C20ORF24 TNPO3
SPI1 NFKB1
PAX6 HOMER3
MOBK13 CCDC59
MCL1 BECN1
HSPA4 TSSK6
RNF2 UBE2D4
RPL7 USP38
CSK ZNF182
PRKAR2A SMAD3
ATN1 TRIP6
BCL6 NCOR2
SRC OGN
ITGB2 ITGAM
RUNX1T1 TCF12
NACA SMYD1
CUL1 COPS3
GNA15 CNR2
SIRPB1 SYK
CSDE1 STT3A
RBL1 RBBP8
ITGB2 AIDA
GCN1L1 NEK6
TPI1 LIPT1
TAB1 DNAJC7
DDX3X RPF1
TP53 OTUD5
MTNR1B GNB1
SP100 CASP8AP2
YWHAG NDEL1
TRIP6 ILF3

MAPK14 DUSP10
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BRCA2 FANCE
GH1 PSME3
NUDT18 C19ORF50
CBLB GORASP2
SERPINA1 LRP1
CEBPB HOMER3
CSF2 KITLG
RPA1 FYCO1
TNNI2 TRIM63
MAZ CSNK2A1
SREBF2LZTR1
HCN1 HCN4
DKK1 KREMEN1
EFTUD2 SF3A2
REN PCSK5
LAPTM5 NEDD4L
THRB SRC
YES1 FASLG
RNF2 UBE2J1
NFKB1 TSC22D3
EHMT2 GF11
PRNP C18ORF56
TRIP6 KCTD5
PXN PTPRJ
JAK1 PTK2B
TAL1 SKP2
GPX7 UBQLN4
KPNA6 ANP32A
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HDAC1 LCOR
HSPG2 GF11B
PFN1 ENAH
OPRL1 GPRASP1
MYC HSP90B1
NUP62 IRF3
USP39 MEPCE
IRAK1 SUMO1
RNF8 RXRA

MYOD1SNW1
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GOT2 PAK2
PRKCB TIAM1
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CHEK1 CLSPN
EEF2K RPS6KA1
DSPP COL17A1
PCNA EEF1A1
TRIM24PPARG
BLM TOP3A
SNCA CDC42EP3
SREBF1MED1
PRMT2 CPSF7
WBP4 HNRNPK
CRMP1 CDK5RAP2
CBL TYK2
ARF6 QTRT1
MAPK14 NCOA3
MED14 MED29
AXIN1 FAM123B
NUDT18 KRTAP4-12
CIRBP RBMX
DVL2 RAC1
NUDT21 ITCH
ZNF101 MDFI
KCNK3 S100A10
VCL BCAR1
RIPK1 ITCH
KIF5B YWHAZ
TOX4 EXOSC10
BRCA1 ZNF350
BCL2 IRS1
HLA-B RPS9
EWSR1 GPBP1L1
CHD2 PAK2
CPNE1 UBE2O
NLRP1 NLRC4
CREBBP SERTAD1
PRPF4 DDX23

NCOA2 SLC30A9
PSTPIP1 AKAP9
SUV39H1 MBD1
HBP1 SIN3A
INSL6 GNE
TRAF5 NGFR
SPDEF PCGF2
E2F1 SIRT1
MX1 SUMO1
SYNJ1 ITSN1
SYT2 NRXN1
NUDT18 HSD17B14
ADRB2 KCNJ6
HMGA1ORC6
PSMC2 PSMD2
HLA-B DDOST
GSK3B IGF2BP1
CREB1 RPS6KA2
RAD23A ECSIT
FBN1 PAK1
NUP205PHLDA3
POLR3A POLR3E
DAND5 NAP1L1
KLHL22 COPS6
GIPC1 LRP2
PAFAH1B1 NDE1
SMAD4 HMG20A
MYC MINA
DPEP3 SPEN
SH2D1A LCK
MYOD1HDAC1
GANABUBA5
DPEP3 SIN3A
PIAS2 PARK7
CCDC130 ZNF165
GPS2 SIN3A
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YWHAZ PABPC4
ACTB PRKCD
RRAS ARAF

ITGB1BP1 LRP2
SYN1 BIN1
EHMT2 KLF6
EIF1B EIF3M
SLC9A1MAPK1
YWHAB RPS27A
LCK PTPRO
MAPK14 ROBO1
RABGGTB PTP4A2
NBN PAXIP1
SNCA CYCS
UBE2R2 DZIP3
SH2D1A FYN
GH1 MAGOH
BCL2 BNIP3L
CREBBP DACH1
ADD1 HDAC1
MARK3MARK2
PSEN1 PRAM1
MYB WDR5
CCL21 CXCL13
SMAD6 SMAD2
SMAD6 SMAD1
BCL10 C9ORF89
MLLT10 NDEL1
PMS1 RPS27A
RPL30 NFKBIB
SMAD5 RBM4
YWHAH CAMKK1
NCK1 ELK3
NDRG1 UPF1
EEF2 PPP2R1B
EEF2 PPP2R1A
ACTG1 MAP1A
CYBB ACTG1
ETS1 RBBP6
C18ORF56 MDFI
HSPB1 INSL6
PIAS2 YWHAE
HLA-B TRIM28

FANCA DEC1
KLK3 EPOR
SYK SLA
PSMD11 SMAD5
SH3BP5L PLEKHA5
DHX36 PRKAB1
PLIN3 IGF2R
C1GALT1C1 B3GNT2
RGS20 GNAO1
EIF1B VEPH1
CDC42 WASF1
TPM2 PIK3CG
GRIK3 PICK1
TPM2 PLCG1
YWHAB BID
RING1 RYBP
NGFRAP1 NTRK3
MEIS1 TLX1
CHAF1A CHAF1B
CTNND1 ERBB2IP
KDM1AHMG20A
CD2 CD59
MSH2 RAD50
TNFRSF10A CFLAR
EGFR UCHL1
LYN GP6
CLK2 FANCM
RAB10 SEPT9
COPB2 NDRG1
FES DOK1
TBX3 HDAC3
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BAG6 RCN2
TEX11 MAD1L1
GNAI2 ADRA2B
TCP1 STRN3
EGFR VAV1
UBE2L6 LONRF1
ZNF225 SUMO1
PER2 TNFRSF14

SYK IL15RA
HNRNPH3 KAT5
TNFSF11 TNFRSF11A
SAP30 MTA2
SRC SH3BP1
VPS33AVIPAR
F12 MMP12
BCAR1 SH2D3A
FBXW7 HIPK2
ILK NUP205
SMAD6 TAB1
ERN1 BAK1
CFTR DERL1
TRDMT1 C7ORF64
TBL3 AURKB
FSTL3 SMAD4
SUN1 TOLLIP
MEF2A DST
NR5A2 NRIP1
SOCS3 EGFR
PPP3CBMYOZ3
AR RUVBL1
NUP214SMAD3
CCNE1 SMARCB1
CNKSR1 BRAP
SMC2 NEK6
HIST1H1B LOX
CDC25A CUL1
SMAD3 C10ORF54
HDAC3 HDAC7
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CASP4 MYCBPAP
USP33 ZFR
YWHAB UCP3
CCDC6 USP7
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MAP3K1 MYLK2
CANX GPRIN1
EIF3F IMMT
AK2 ACTR6

PSEN2 METTL2B
UXT RUVBL2
ACD TINF2
YWHAZ ESYT1
PTP4A3 FNTA
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AHSG INSR
S100A6 ANXA2
MSH2 KAT2A
AR RNF6
CHEK1 TP53
UBE2G2 RNF111
SRC PIK3R1
ITGB2 DOK1
TNIP2 IKBKG
H2AFX EYA3
RPS27A PINK1
H2AFX EYA1
NR3C1 SMARCE1
EIF5 IKBKE
SGK1 PPP2CA
EPB41 TAGLN2
HLA-B PSMD2
ATXN1 SREBF2
ERCC5 NTHL1
MDM2 MDC1
FOXK2 AMOT
SEPT7 SRRM2
SCNN1B NEDD4L
KCNJ1 GOLGA3
MAPK14 MAPKAPK5
NRG2 ERBB4
LCK CD2
PRKACA ITPR2
ACTR1B CHD3
EIF1B UCHL1
FXR1 FXR2
DDX5 PIK3CA
RNPS1 RANBP10
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CCL16 HRH4
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NR0B2 ESR2
DSG1 VRK3
SIP1 GEMIN5
CAD NFKB2
GBP2 SERPINB9
GNAI3 DRD2
ITGB1BP1 TANK
IKBKE MAFB
MYOD1CBFB
RXRG NR0B2
UBE2H BRAP
RNF25 UBE2D4
NFKBIE CAD
CFP MTOR
FOS MAPK1
FMNL1 PFN1
TFPT EAF2
TJP1 TUBA1C
CTNND1 YWHAG
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MAPK1 PAK2
MYC PGAP1
MBP MAPK3
XPO1 RANBP3
FYN SNX12
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APRT TRAF6
DHX9 SND1

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UBTF POLR1E
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TUBG1 RPGR
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TRPA1 RPS27A
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MOBKL3 STK24
GLS ARF6
VAV2 BZW1
PLP2 IKBKE
DVL1 APC
USP1 WDR48
RCHY1 PLAGL2
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PPARG NR0B2
NFKB1 MYL6
MEIS1 TLX2
NUDT18 NAT9
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GRIA1 GRIK2
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MYC LARS
RAD23A MDM2
SNCA CALM2
C6ORF47 ENO2
CAST GRB2
CREBBP ZNF639
SRSF2 SF3A2
UBE2K MARCH7

NCL CDKN2A
CTNND1 SUMO2
MYC SRP14
RBL1 HDAC1
TEAD1 MEF2A
STAT1 ELP2
MAPK1 PAK1
SMARCB1 UBQLN4
KRT18 HSPA5
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CSNK2A2 IL16
THRAP3 TRAF6
FXR1 C14ORF1
PSMD8 PSMD13
ARIH2 WDR91
LZTR1 L3MBTL3
FKBP5 IKBKE
TNFRSF10A RASSF1
SPCS2 TNFRSF14
F7 F3
RAC1 SH3RF3
POLR2G MED10
CDK1 GOLGA2
CFLAR MAP2K1
USP2 NFKB2
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SERPINB2 PRPF8
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DAXX HDAC2
SHC1 VAV3
PTP4A3 MAD2L1
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ABL1 C20ORF46
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AR CAV1
EIF3F EIF3K
MS4A1 CSNK2A1
TRAF5 USP7
ESR2 PPARGC1A
UNC5C NTN1
SUMO1 SF3A2
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MAPK1 DUSP4
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DCTN1 MAPRE1
SHC2 ARHGAP32
STAMBPL1 MAST1
PARP1 CDK8
DYNLL2 BMF
RPL27 MAP3K14
PNO1 TRAF6
DAZAP2 TCF7L2
EDNRA GNA11
SEC16ATNF
HRAS INSR
REL HSPA1B
CHMP6 VPS25
MRPS9 RBM4B
TOM1 TOLLIP
LEPR PTPN11
NPHP1 UBQLN4
SP3 NKX3-1
JAK2 DNAJA3
CD2BP2 CRB1
SHBG CECR5
DVL2 POLI
CREM CREB3L4
PRKAR1A FTSJD2
AKAP5 CALM2
ARRB1 ZBTB43
MAP3K1 HSPA1B

ITGA6 CANX
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ALB LRP2
MAGOH CNBP
RNF144A E2F1
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MEIS1 TLX3
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GNB1 ARHGEF18
PRNP P4HB
TGOLN2 PLCG1
ESR1 ZBTB17
FGFR4 EPHA4
RPF1 NDFIP2
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MAPK11 DUSP16
MXD4 SMC3
CHEK1 ATM
IL16 DMRTB1
MMP2 HAPLN1
PIP5K1B MCRS1
ZSCAN1 TBX20
YWHAZ COPS4
MAP1A DLG2
CEBPB CEBPG
CD44 NF2
UBQLN1 EFEMP2
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HTRA2 USP7
HRAS FYN
FURIN COL23A1
MSX2 DLX2
PSMD11 NFKB2
RPS6KA5 MBP
SRC DGKA

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ERBB2 CTNNB1
GRK5 RCVRN
RXRB NR0B2
SLC9A3R1 YAP1
PRKAB2 GFPT1
APOB HSP90B1
RBL2 LIN54
NBN RRM2B
TLE1 FUBP1
KIAA1549 MYO5B
MCC CRYZ
ADRM1UBQLN1
INHA TGFBR3
APBB1 SET
AXIN1 EEF1A1
KIAA1549 CAPS
MYC NUP188
CBLB CARD11
PKD1 TLN1
UCP2 YWHAG
CASP3 DCTN1
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DDX3Y SRC
CYCS NAF1
ESR1 PAK1
BET1 GOSR1
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BCAR1 PTPN11
BCL2 BLK
TNFSF11 ADAM19
PLG SERPINB13
SNRNP200 APC
VIM C7ORF64
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GRIA2 GRIA3
FBXO30 SMURF1
COL2A1 PKD1

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FYN GP6
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SIP1 SRSF3
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DCTN1 DYNC1H1
E2F1 TRRAP
STRN PDCD10
ICA1 MKKS
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ERCC1 SLX4
KIF6 APPBP2
FYN TRIM39
ARHGEF9 PLEKHA5
EMD PSME1
FZD8 GOPC
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ABL1 KIFC2
DLGAP1 DLG1
UBA1 CBL
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NKX2-1 NCOA3
MYBPC3 TNNI3K
PLCB2 TRPC3
PDGFB PDGFRB
PPP1CCRIPK3
IRF9 RELA
RAE1 NUP88
ELF4 FBXO4
NVL RPL5
LIFR IL31RA
HDAC3 PPP4R1
MARCH3 UBE2D4
DLST DLG5
ERBB2 NF2
DLG4 MED28
TCEB1 SPSB2
KIF5C RHOT1
STAMBPL1 RNF11
PFKL NFKB2

MEGF10 TAOK2
UBL4A USP13
ACBD3 SMURF2
PRKCA TIAM1
CTTN ANKZF1
HNRNPA3 ARHGDI
FDPS TSG101
CD28 CD80
PSEN2 NOTCH4
MAP3K1 MAPK8IP3
MAP4K3 VAPA
NOL3 SIRPA
GADD45B MAP3K4
PLCG1 RPS27A
CLEC4M CD209
COL3A1 MAG
PRLR PTPN11
HRAS GPRIN1
C16ORF59 FEZ2
ZSCAN1 HOPX
TSG101 VPS11
HNRNPA1 YWHAZ
SUPT5H PNO1
SLC9A3R1 YES1
FYN NPVF
BAX BCL2L10
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HSPA1L NFKB2
RAB27A INSL6
FAM107A CALCOCO2
RUNX1T1 TAL2
SUV39H1 DNMT3B
CXCR5 GNAQ
RAB33A RABAC1
NRP1 NRP2
PLCG1 GRB2
RBPMS NEU4
GDF9 PMF1
CCT5 MOBKL3
DLST NAP1L1

ASGR1 HSP90AA1
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ARL3 TLE1
GHR PIK3R1
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YWHAZ AKAP13
SAP18 GLS
CENPA CENPK
GTF2F2 CREB1
MED1 MED27
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SRC TRAF6
TUBB TBCD
USP46 EIF2AK4
DLG4 IL13RA1
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FGF3 FGFR2
KATNA1 CIAO1
VCP YWHAZ
MCM2 ING5
HLA-B TARDBP
VAV2 VCPIP1
XPO1 PHAX
UBE2E1 RLIM
BCAR3 PSMD1
CDC25A CUX1
SERPINI2 UBQLN1
HSF4 SLC27A5
PPP2CBSTK24
DLG4 MAP1A
UBE2D2 RCHY1
TMEM147 ABI3
PDCD6 ANXA11
FYN CD79B
CAPN2 TNS1
PRKCI USP21
SUMO2 EEF1A1
COL4A4 KLK6
RXRA PSMC3IP
CGA PTPN12

SYNM DES
BCL2L1BNIP1
WDR48 PPP1R9A
BCL2L1BNIP3
SMAD3 PARD3
USP5 RAD23B
AURKANFKBIA
NES CDK5R1
DUT ESRRG
MXD1 HDAC2
PDGFRB S1PR1
SLC25A5 MAP3K1
SMAD3 PARD3B
RXRA PSMC5
CDKN1A CSNK2B
ITGB1 ITGB1BP3
MCM2 ORC6
PLCG1 DLX4
DNMT3B DNMT3L
XRCC5 MSX2
PRKAR1A COL4A3BP
UBE2E1 ASF1B
GH1 PFDN5
TFE3 PDCD6IP
SPARC COL5A1
RGP1 RPAP3
HUWE1USP9X
HUWE1USP7
CAMK1D CAMKK1
PRPH MYO5A
SOD1 PSMD4
RBL1 DGKZ
PURA MEPCE
RBL1 SNW1
BTK PIP4K2C
LAMC1 PDIA3
PPIC UBQLN4
PLCG1 ARHGEF2
GRIK2 GRIK4
RPA2 CREBBP

CDKN1A BCCIP
UBR5 CIB1
COL18A1 TECPR1
ZNF263 NME7
PRNP CSNK2A2
RELA TBK1
PTPN1 AKT1
PJA2 RPS27A
DLG4 KCNJ10
EPPK1 MAP3K1
UBE2V2 TRIM5
GNAQ GRM2
POLA1 RAE1
HMGB1 ERF
HIRIP3 ABCF3
P4HB FEZ1
UBOX5 MLH1
SORBS1 SEMA6A
PBX3 ZNHIT3
RPS6KA1 PPP1R3A
MON2 GGA3
RNF114 AK5
CLASP2 CLIP1
GNAI3 GNG3
MCC MAP2K2
RXRA CNOT1
ABL1 GRIP2
IRF3 MAFB
SRC CCNA2
SPTA1 VASP
RND1 FRS2
CD247 DOCK2
ADCYAP1 VIPR2
SP3 EP300
ADCYAP1 ADCYAP1R1
CDC42 ARHGEF7
CASP7 NUCB2
SRC DAAM1
HSP90AA1 KDR
GOLGA2 GORASP1

HSPB1 MAGED1
SPRY2 TESK1
EEF2K MAPK11
KLHL8 USP7
BCL2 ITM2B
PPM1F ARHGEF7
HLA-DQA1 SH3GL2
AKT1 MAPKAPK2
GNAL USP3
PSG3 PRKD2
HRAS PRKCZ
EXOSC7 UBE2Q2
PLCG1 RPL11
PTGS2 COPS7A
AHNAK XRCC4
ANK3 MAPK6
CRMP1 GNE
ETFA DDA1
LMNB1 CASP3
TRAF3IP1 DISC1
RPA1 WRN
AKT1 AKTIP
CD22 LCP2
GTF2A1 MYLK2
RAB5C IKBKE
LRPAP1 RALGDS
COPS2 NIF3L1
CDKN2C UNC119
SRGAP2 YWHAZ
ISL1 ISL2
CEP55 PD CD61P
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MTA1 DDX18
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PLAUR LRP1B
EWSR1 CFDP1
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APP PRAM1
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YWHAQ PIK3CB
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MAD2L1 DSTYK
DTYMK CDK9
RGS20 SLC39A7
AKT1 SETDB1
UBE2D2 UHRF2
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PLCG1 ISG20L2
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FYN CBLC
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IKBKE HYOU1
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RALA EXOC2
SIN3B SETDB1
TSHR STAT3
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HIST1H4I RBBP7
TOM1L1 GRB2
UFD1L AMFR
VHL GRPEL1
DDAH1 RPS6KA1
UBTF TAF1C
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PIAS2 HUWE1
NEK9 SUPT16H
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SOCS3 CXCR4
CCR10 CCL19
PRPF40A WBP4
SRSF2 CCNL2
PLCG1 EPOR

ELAVL3 ECSIT
EIF3A EIF3M
HEATR2 NEK6
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PSEN1 FAM82A2
ADCYAP1R1 CALM2
EIF3J EIF4G2
MUC1 GSK3B
PDZD2 CTNND2
CUX1 CYTH2
NKX2-5HDAC1
NFASC NCK1
PLK1 SLX4
ITGA4 CD81
CCT5 PPP2CB
WIPF1 PSTPIP1
AKT1 PPA1
MX1 DAXX
GTF2F1 GTF2B
ATXN1 SAR1A
GNAI2 RGS4
GNAI2 RGS19
RFC4 MEPCE
STAM2 LCP2
YWHAH BAD
RASGRP1 HRAS
NCBP2 KPNB1
COX5A COPS6
CDC27 SMAD3
KCNJ4 LIN7C
PLCG1 COPS5
NCOR1 SAFB2
S100A6 MDM2
TUBG1 RAB8B
CASP14CASP2
RAC1 DLG5
TUBB IKBKE
MYST2 ORC2
MYST2 ORC1

LTA TUBA1A
TOM1L2 RNF11
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RAMP1 VIPR1
ATXN1 SAR1A
YWHAG PRKCZ
VAV1 PIK3R1
PPIC LGALS3BP
CUL4B DDB1
DBN1 ZNF598
ARIH2 UBE2E1
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ATXN3 VCP
INSL6 MOBKL3
VHL PSMB3
YWHAG PLEKHA5
NAP1L1 TRADD
EZR ROCK1
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BRCA2 PMS1
CASP2 CASP7
CASP2 CASP9
COPS2 KLHL13
SNCA YWHAE
PAX3 CIB1
NUDT10 RASSF1
SGTA TMPO
CD4 MARCH4
PLG F3
CRK FASTK
PROC MMP15
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TRAPPC6A RAD54B
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MRAS RASIP1
ESR1 CHD9
NR2F6 RARG
RCHY1 CAMK2A
SH3KBP1 SH3GLB1

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SHC1 PRKCD
ARNT AHR
PPP2CAGOLGA2
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MAPK1 NR5A1
ATXN1 LDB1
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CSNK2A1 KLF1
WAS TRIP10
FYN PRX
FOS ELK4
PTEN MAST2
ENO2 MAP4
TXNL1 PSMD6
ATN1 CHR1
LAMA1 FBLN2
WIPF1 SRGAP2
UTRN PGM5
GNL2 DDX56
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CALCOCO2 FAM164C
SHC1 CALD1
PRMT5 HIST1H2AE
MAPK6 LDHB
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FURIN ADAMTS1
UBE2U RNF11
ZSCAN1 TIMELESS
LYZ LRRK1
PFKFB2PRKACA

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PAK3 CDC42
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CHRM3 SET
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ESR1 MAP3K1
HDAC2 MTA3
VHL HINT1
HES1 UBQLN1
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SMC2 CASP4
TNFRSF1B CAV1
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RXRA FUS
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SHC1 ALK
CDK2 HIRA
PTS PRKG2
CRK PTK2B
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MAPK1 MAP3K1
ERN1 MAP3K5
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EGFR RUSC2
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L1CAM RPS6KA2
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RBBP8 TGIF2
GPS1 ITPK1
HDAC1 DACT1
GSK3B QPCTL
ACTN1 SSX2IP
AGTR2 MTUS1

STIP1 PTGES3
CLTCL1 WNK1
HCK STAT3
HDAC3 SYK
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GFI1B HECW1
PDGFB TSPAN32
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NFKBIA NKIRAS2
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ITGB2 CYTH2
ESR1 TRIM28
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CDKN2B MAGEA11
POLR2E MED29
ZEB2 YWHAG
UBE2I DNMT3B
DEDD2 NR2E3
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PDIA3 LAMC2
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CUL1 OSBPL10
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APP NECAB3
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NFKBIA NKIRAS1
FYN TDRD1
BCL2 BCAP31
GPRIN1AKAP9
PHB2 EZH2
RICTOR MAPKAP1
CCT8 RELA
HTATIP2 NCOA5
SKIL ZMYM2
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GAS7 GAPDH
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VHL GNB2L1
PRMT1 TMBIM4
GSK3B BICD2
ALS2CR8 LMO3
EGFR VAV2
HSPA1L RIPK1
UBE2I SAE1
CHEK1 SMAD4
COIL KLC4
DNMT1 EZH2
SLC6A1STX1A
TDRD7 ATXN2
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TGM2 LTBP1
HDAC1 TAB2
TSC22D1 XPO5
ERG SPI1
IGF1 CTSB
SNRPB LSM11
EZR ACTB
ADRA2A GNAI1
MGEA5 CDC37
SQSTM1 IKBKG
GNAI3 CCR5
PRPF40A SF3B1
TOMM20 FEZ1
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EIF2AK2 ILF3
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SUMO1 NCOA2
YWHAE MAP3K10
SMAD9 FN1
ESR1 PTEN
FOXL1 BMPR2
NSFL1C FAM32A
RXRB NR4A2
DUT NUDT18
YWHAG TNS1
TP73 PIWIL1
ABL1 GABBR1

TKT FBXO11
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UBL4A UFD1L
DEK HIST1H1A
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SMAD3 ZBTB3
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SASH1 SUV39H2
RAB1A FSCN1
SLC25A6 IKBKG
GAPDH PRDX1
DLG3 KRT82
RPS5 IKBKG
FOS SUMO1
GNGT1 GNB2
ADCY5 GNAS
LCK NOTCH1
DLG4 FZD7
HIST1H2AL RYBP
CDK1 USP32
ZBTB43 TCEB3B
CRK FLNC
CREBBP ING1
RAB7A TRAF6
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HSP90AB1 HSPH1
REST SIN3A
GSTK1 IGF2BP2
PCNX KDM5B
CRMP1 MOBKL3
TRIM63 MYOZ1
MCM6 USP7
KAT2B TAF6L
ARAF BAG6
BIRC5 CDK1
HTATSF1 FEZ1
BTK CBLB
PRKAB2 GYG1
GC GRB2
TP53 MAGEB18

ADM CALCRL
CASK KCNJ4
DEDD2 GTF3C3
PSMD10 MAGEA4
C16ORF48 TSC22D4
RAF1 AKT1
GDF9 CDKN2C
TRIM24CYP27B1
GSPT1 MCC
ATXN10 GSTK1
PLXNB1 RAC1
ALAS2 GRB2
ATN1 PRRC2B
NR4A2 SUGP2
BRCA1 SMC1A
RAB10 SYTL3
PAN2 NUP93
KAT2B NCOA3
SRC CD2AP
MAP2K6 TAOK2
PPP2R1A TNIK
CHEK1 ATR
BRCA1 MDC1
ERBB2 ERBB2IP
CYBB RAC1
EPS15 UBE2D1
POLR2E MED9
HNRNPK PIN1
AKT2 PRKDC
CREBBP SERTAD3
CCL18 EEF1A1
VTN AMPH
ESR1 MTA1
POLA1 XRCC5
ADAMTSL4 DNPEP
SMCR7 RABAC1
PSEN1 APBA1
CREBBP ANAPC5
USP19 ATAD1
CREBBP ANAPC2

RBBP7 BAP1
SMAD4 ERBB2IP
NCK2 ABI1
IGF1R PXN
S100P RAGE
NFKBIE PSME3
FYN C6
GNAO1 GPSM2
YWHAZ MARK4
KDEL2 SERINC3
RPL23 MEF2D
CSE1L YWHAZ
HRAS MAP2K1
HDAC1 SMEK1
PPP6C TGFBR1
CDK1 FANCC
PJA2 UBE2D2
NCOA4 RNF14
MAP3K3 UXT
TSC1 FBXW5
NAA38 USP4
DVL2 PPM1A
FAM48A USP22
TEAD1 MEF2C
RPAP1 PHF8
DLG1 MAP3K3
PLD2 LCK
PLK1 RACGAP1
DSC3 PKP4
CTNND1 FER
NR2F6 RBMX
DDX24 TMEM9B
PPM1D RPL5
SIN3B MAD1L1
RHOTB3 RAB9B
CS DYNLL1
RPS15AEWSR1
PPP1R14A CSNK1G1
SRC CD33
TNFRSF1B ASB3

UBE2I ZMYM2
PRKCB GRIN2B
SDCBP EFNB2
PRKCA RALBP1
CEBPB SP3
TNNI2 SMURF2
EFS TRAPPC6A
TCF4 CTNNB1
ITCH SH3GL2
SRSF1 RNPS1
FHL3 ADAMTSL4
SPTA1 FASLG
SRC CDCP1
AKT1 PEA15
DAXX CREBBP
YWHAZ ZC3H13
DPEP3 HDAC2
TOP1 SMAD2
CFTR SLC4A8
AKT1 PDK2
GABARAPL2 RNF123
SYT9 TRPV1
VCAN ITGA4
PRICKLE3 ABL1
MRE11A PRMT1
YWHAG CENPJ
PTPRS RAB35
SRC DAB2
SMAD1 MBD1
DST DISC1
NACA IGSF21
SMARCA5 MAF
KHDRBS1 DHX9
SRSF1 SREK1
CCND3 CDKN1B
STMN1 STAT3
EED TGS1
UBC CDKN1A
MDM2 DAAM2
PLD2 FYN

RCN2 TRAF6
ABL1 SLC9A2
CAPRIN1 PINX1
CSNK2B PACS1
EIF2AK2 FANCC
PSIP1 CASP3
FGFR2 FGF23
CDC45 MCM10
PPP2R1B BSG
GBAS PFKP
RHPN2 TRAF6
HSP90AA1 AHR
UBE2I ARX
CXXC1 ASH2L
TNFRSF10A CASP10
CCNDBP1 TCF3
GPC1 COL18A1
HSPA4L PHLDA1
CBL GAPVD1
GJA1 NOV
CASP3 PARG
INSR RASA1
HDAC3 ZFP36
RAB25 RAB11FIP5
MLH1 FASTKD5
RAB7A RNF115
BTF3 POLR2B
TGFB2 TGFB2
CDK8 MAML1
EFTUD2 RNPS1
PCSK1 PCSK1N
PGK1 UBA5
MAP3K5 DAXX
MCM3 CCNA1
LAMA1 HSPG2
GCG MEP1A
GPR37 SYVN1
CALM2 NFKB2
RAD23A EWSR1
CDK14 YWHAQ

ADORA1 GRM1
NR3C1 ACP1
TLX1 PPP1CC
GJA1 CSNK1D
GCG MEP1B
SASH1 NCK1
LZTR1 CNOT6L
CEP55 TSG101
CSNK2A1 XRCC4
CCT5 ACTA2
CRYBB3 SRRM1
SYNJ1 CDK5
SKIL IL1F5
TFAP2B HIST1H2AC
ALOX12B KRT5
AR SREBF1
KRT18 PKP3
ATG12 KRT31
SAP18 CLPP
YWHAQ FAM83G
CRMP1 LSM2
HNRNPA2B1 HNRNPH1
RPAP2 GTF3C3
PIK3R2 SEPT2
KAT5 CCDC106
NR4A1 MAPK1
PPFIA3 PIK3R1
CENPF BRAP
VIM SERBP1
MPG PSMD7
SERPINB9 INSL6
MDM2 SREK1
TACR1 GRK5
CD33 PTPN6
EEF1A1ORMDL3
PPBP CTSG
INS TXNDC17
HIST1H4I TAF9
SNAP25VAMP2
UBE2U VPS11

HGS EXOC7
EWSR1 KRR1
AR EFCAB6
ACAN MMP19
MYOG TCF3
USF2 TRPV5
UBE2U CADPS2
GABRDUBQLN1
E2F1 NCOA3
TMEM62 SLC27A6
PPP2R1B RAB7A
SLC9A3R1 LPAR2
HABP4 FRA10AC1
ZFYVE9 ERBB2IP
ICAM3 CD209
NUP153 RAN
RAD23A PI4K2A
M6PR GGA1
M6PR GGA2
RBX1 GAN
CREBBP POU2F3
YWHAG PRKCD
SDCBP2 ZCCHC17
CBFA2T2 RERE
UBE2I SREBF2
YWHAZ TP53BP2
PRSS8 ATF7IP
CDH1 MYO7A
NR0B2 SMARCC1
YWHAB MPRIP
EEF1D CDC42
CDKN1B CDK6
CDKN1B CDK5
H2AFX CALM2
HSPA4 LIMK1
NCOA6 RORB
POLR2B POLR2K
CTBP2 BAZ2B
CLASP2 CLIP2
CLK3 YWHAG

ATN1 AGRN
YWHAZ PFKP
TP53 CREBBP
TP53 MYST3
NPC1 NPC2
GSTK1 COPG
FHL1 IKBKE
FGB LPA
RPS16 LYAR
TMEM173 MAVS
CRK DOCK1
EZH1 EZH2
IDH3B IDH3A
PIK3R1 CHAF1A
TP53 HDAC2
IMPDH2 IKBKE
MAX EP300
MAPK14 MOBKL2B
NCOA6 ESR2
AR CASP1
EMID2 EMID1
H2AFX PPP1CA
MED14 MED21
PTPRC CXCR4
OGT SNAP91
CD3EAP UBTF
RPS27ANLK
LIMS1 SMURF1
HSP90AA1 MAP3K3
GADD45G LUC7L2
NANOS3 KANK2
HLA-A B2M
PARK2 TRIP13
TP53 TFAP2C
PTPRC RNF11
NCK2 SF3B4
YWHAZ LIMA1
SLC25A5 TRAF1
PIP5K1B SPOP
PSEN2 NOTCH2

POLR3D SMAD2
PRKAR1A ITGA4
ZBTB25SUMO2
CHEK2 FOXM1
AXIN1 SMAD2
NCOA6 CREBBP
HSP90AA1 NPAS2
TNNT1 TNNT2
ZNF365 NDE1
PPARG ZNHIT3
ACTB PHACTR4
MAGI1 ACCN3
ABL1 BRCA2
NOTCH1 APBA1
PPARG MED1
PPARG JMJD1C
PPARG NFKBIB
USP1 ALDH16A1
ESR1 PRMT2
PPARG TRIP4
CASP8 FAF1
RPS27AEP515L1
EEF1A1PAFAH1B3
ANXA1 USP25
FN1 COMP
MDM2 TSG101
SART1 MEPCE
RPGR KIF3A
KIF5B MARK2
CREBBP GMEB2
C20ORF24 ANKRD6
LMNB1 CASP6
CD7 SECTM1
PROS1 F5
ITPRIPL1 UBQLN4
RBL1 HDAC2
TLE3 NDRG1
NSMAFNEK9
NRIP1 NR0B1
USP6 CALM2

PRKCD CDCP1
HSF2BPHSF2
H3F3B HDAC9
TNFRSF1B CALM2
ACTR6 RUVBL2
PHB2 DDX20
DNAJA3 PHLDA3
RNASEH2A CREBBP
GSK3B E2F1
FHL1 FHL2
NEK3 VAV2
PEX5 SCARB1
USP49 IPO9
DAND5 NCOR2
CRP FCN2
MYH10 WNK1
ARIH2 UBE2D1
DRD2 NCS1
GADD45A HIST1H1A
ATXN1 ZC3H7B
C1QBP GAB1
JAK2 CXCR4
NFATC2 TAF9
FYN BRPF3
ADD2 PRKCD
ZBTB8B ZNF408
PPP2CB TRAF6
CAPZA1 CCNA1
MAP1LC3A PRKAG2
PTS ATM
SUPT3H TAF5
ABI1 WASF1
ZNF24 ZNF174
IL1RL1 TMED1
HAT1 HIST1H4I
SMARCC2 SIN3A
MAP2 GRB2
SRC ITK
KRTAP4-12 RERE
ATP1B1RPS27A

TRIM27 KCTD15
MEF2D ASH2L
NFKB1 RELB
MAPK8 SPIB
CUL4A DCAF11
HSF1 FKBP5
MSH4 MSH5
ABI1 PIK3R3
CDC42 KHSRP
TAPBP HLA-C
ALDOB ATP6V1E1
TP73 PPP1R13B
GFI1B JAG2
PLG IGFBP3
SUV39H1 HDAC4
PSMA5 CCR5
WASL GSN
LCP2 GRAP2
GSTK1 SRPRB
TP53 PIWIL1
IL2RB STAT5A
YWHAB SAMD4B
IL2RB STAT1
ZFAND5 PSMD6
EMD PDCD4
CREBBP TBX21
SUPT5H ZFYVE9
JAK1 IL27RA
CACNA1C RIMS1
TRAF5 RIPK2
SNCA SNCB
RARG NCOA1
TESK1 SPRED1
TESK1 SPRED2
CYP27B1 GTF2B
MAPK1 FCGR2B
HSPB1 MED31
MDM4 PRKCD
U2AF1 SF3A2
ACE BDKRB2

RELB TUBA3C
DVL2 DPPA2
ARF6 DDX19B
RPS6KA4 MAP2K1
RPS6KB1 SYK
CSNK2A2 SLC38A1
AGFG1 EPS15L1
TIRAP BTK
MED30 MED19
COPS5 COPS7A
PTAFR RPS27A
COIL ZNF277
CLP1 TSEN15
ZNF24 ZNHIT3
YWHAZ NUFIP1
WASF1 BAIAP2
PGRMC1 EFHD1
SLC9A3R1 SLCO1A2
IMPA2 HERPUD1
NMT1 HPCA
SLC9A3R2 TRIP6
IKBKE RPL36
BTF3 CSNK2B
CSNK2A1 SPTBN1
CDK4 BAG6
PHF10 CELSR2
TGFB1 SNIP1
MYST2 CALCOCO2
XPO1 TOP2A
TMCO7 MACF1
TERT NAT10
NAE1 TRIP12
SMAD1 MKL2
KCNJ3 KCNJ9
MTF1 CREBBP
RNF40 USP15
GSTK1 GTF3C3
MLLT4 PVRL2
RAB3B GDI1
CD2BP2 EWSR1

APC AP1B1
STRN TCP1
FYN TRPV4
FOXS1 BMI1
TEX9 CCDC112
APAF1 NLRP1
YWHAZ REEP6
IKBKB PRDX3
EDNRB NANOS3
HGS HAP1
RNF40 ZNF451
DNMT3B BAZ2A
ESR1 EIF3I
EWSR1 RMND5B
ATF2 UBE2I
GH1 C12ORF23
NPAS2 NCOA3
KAT5 FANCD2
NLRC4 NOD1
HSP90AA1 HIST3H3
ABL1 PAG1
FZD6 WNT4
PRPF40A CYFIP1
CYP27B1 ACVR1
SMAD4 TSSK3
ESR1 ITGB3BP
RPLP2 ADRBK1
ESR1 FKBP5
YWHAQ KRT9
VAV1 SHB
GRB2 SLC23A1
RUNX2 LEF1
SRC PKD1
PABPC1 PCBP1
PSMD12 IKBKE
PABPC1 PCBP2
SNX2 EGFR
SFPQ SP3
SRC TNFRSF11A
KRTAP4-12 THAP10

CUL3 NFE2L2
SOD2 HLA-B
CDK16 CDK5R1
NF2 AMOT
PRPS1L1 PRPSAP1
PLSCR1NEU4
EGFR CDC25A
SRC EFNB1
DCAF17 DDA1
CCNA1 XPO5
UBE2I RBBP6
F10 GAD2
GTF2H1 E2F1
UBXN2B VCPIP1
SLC34A1 BSPRY
PRKCA TNNT3
ADH5 CHD3
TUBG1 MARK4
TP53 ITCH
DCTN1 SEC23A
RBPJ NOTCH4
HGF ST14
ALDOAU15
XRCC1 CHD1L
DEXI GOLM1
NFKB1B BTRC
SART3 RPF2
ADAM12 PACSIN3
HAND2 COPS5
POLR3D ATF3
RBPMS LRRC41
PRMT5 YWHAB
UBE2D3 TRIM31
PLCG1 LAT2
SUMO2 ZMYM2
ITGB4 YWHAB
NCOR1 SIRT1
PCGF2 CBX2
PTPRC CBL
HTT NEUROD1

HGS UBQLN1
TTC3 WNK1
POLR3E POLR3H
MYC PVALB
IKBKB PEBP1
HSP90AA1 SHC1
GPRIN1NANOS1
FHL2 TNFRSF11A
ADA DPP4
USP19 DOCK7
PIK3R2 ERBB4
SYT1 S100A13
GSTM4 IGSF21
NUP37 NUP133
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TFRC RANBP9
PDIA4 EIF2B1
AP4M1 LAMP2
CHEK1 CUL4A
ITPR1 HOMER2
AKR1B1 TFE3
BAX BBC3
CHEK1 CUL1
UBE2I ZFP106
SERPINA1 KLK3
TLX3 IRF9
SEPT7 CDC42EP3
FYN NCAM1
GRIPAP1 LGALS12
FANCA FANCF
LSM1 VPS11
SF3A2 CDC5L
RNF111 SMURF2
MED10 MED4
HGS VPS4A
FYN ASAP1
STK16 MELK
ITPR1 HOMER3
UBE2I HIPK2
JUND BCL6

NUP153 NUP50
PRKCB KIT
KIT CISH
PLG ENO1
FGFR3 KIAA1377
EGFR PDGFRB
CASC5 DSN1
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SDCBP WDR91
SRC GRB2
MAPK1 CASP9
USF1 USF2
AKAP5 DLG4
ZBTB16LYAR
CUL4A TRPC4AP
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NKAP LUC7L2
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BCAR3 SERBP1
PSEN1 CASP8
MLLT4 SORBS1
DSPP UBAC1
LYN HCLS1
RAB7A RHEB
STMN1 CSNK2A1
PLEKHM2 SLC39A1
ATXN1 HDAC4
TACC2 EP300
UBC SMURF2
ERCC3 GTF2H3
RHO PPP2CA
POLR2G POLR2L
CLOCK ARAF
TPR MAP3K4
TAF4 TAF1
MAP3K14 HSPA1B
CNTN2 EP300
SELL MSN
CNTFR LIFR
HIPK1 DAXX

MPP3 B3GNT8
MAP3K10 KIF3A
HMGCR PRKACA
MAP2K2 CASP9
GPR37L1 PRCP
DEK ZIK1
MLH1 MYL6
MPG PSMC2
PIK3R1 PDIA2
ZSCAN30 ZNF434
PCBP2 QKI
USP8 YWHAG
UBE4A UBE2D4
ETHE1 HDAC1
CPNE6 AK5
BRCA2 WDR16
RANBP1 RAN
FLNA RELA
CSNK2A1 PIN1
PIK3R1 LCP2
ELANE VCAM1
COG3 COG6
TNFSF11 KHDRBS1
NHP2 TRAF6
PITX1 RBPMS
BTF3P11 VWF
TGFB1 SMAD2
SERPINA3 ELANE
EIF4G1 ZC3H7B
ZAP70 GRB2
FANCA CRK
AP2M1 MED4
KLK2 SERPINB6
HSPB9 NUDT5
JUP RAB8B
WBP4 DNMT2
SRSF5 SRPK1
CSNK2A1 EIF4EBP1
ZAP70 RPS27A
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PFKFB2PRKCA
MAP4K4 PRKCE
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APRT IKBKG
CSNK2A1 HDAC1
IL18BP IL18
GLI3 TWIST1
ARHGEF7 LASS2
HGS ACLY
MAP2K5 MAP3K3
AKT1 ASXL1
STRN CCT3
MAG RTN4R
GSK3B PTK2
CLU LEP
RBM11 PCBP1
ATP2B4DLG3
C5 C6
CDH1 ADAM9
YWHAZ RIN1
RUNDC3A GFI1B
PPP2CACCT2
PLSCR1GLRX3
F2 PROS1
NUP155VHL
FN1 SPARC
FEN1 EP300
HRAS RASGRP4
BID CSNK2A1
CHRNA2 CRELD2
NPAS4 ARNT2
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EIF2S1 MELK
HERC6 UBQLN2
UBC BCL2L12
RPS14 IKBKG
SLC38A1 CRMP1
FLNB PSEN2
CCAR1 IKBKG

DST COL17A1
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SEPT9 IKBKG
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F2 THBD
CDK1 UBC
SLC9A3SLC9A3R2
PRKAB2 BAIAP2L1
DUT RHOB
ARRB2 RALGDS
SLC9A1TESC
TCF3 EP300
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EIF2S3 METAP2
IL5RA UNC119
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TCEB3B TRAF2
PBX2 MCRS1
SRSF2 RNPS1
UBC SH3RF1
SIN3A RLIM
NRD1 CALCA
EDN2 CMA1
BRD2 E2F2
ZNF146 TERF2IP
DYNLL1 CACNB1
UBE2L3 RNF19A
FYN DKKL1
PDGFB SPARC
AIP HSP90AA1
BCAP31 IKBKE
TP53 SSTR3
TP53 WRN
PPFIA1 CEP70
HSPA1B FNBP1
VAV1 PTPN22
EPM2A NFU1

FBLN2 LAMC2
HIPK2 DAXX
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COIL PRMT8
EEF1A1MAD2L1BP
FYN DDX41
DSG1 DSC1
NFYC ARID2
GTF2E1GTF2B
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AKR1B1 VHL
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TFAP2A CASP3
EZR GABARAPL2
POLR1D POLR3H
MATR3 HNRNPK
TP53 PBK
ANP32A SET
AXIN1 RPS27A
SUMO2 SAE1
GFAP STAT1
ATXN1 SGMS1
RFC5 EEF1A1
EGFR TPM1
EGFR CLTA
ARID4A BRMS1
PML HHEX
PFDN6 RPAP3
DCAF8 GTPBP3
TRIP13 C11ORF54
F2 SERPINE2
PRKAB2 PRKDC
PAICS GNAS
GNAQ GRM7
TCF4 ASCL3
STAT5A TEK
GNAQ GRM4
PSMD8 PAAF1
USP8 KRT85

MEF2A HDAC5
SNRNP70 SKP1
AXIN1 DIXDC1
FYN GPR63
DNM1 DYRK1A
DPEP3 CHD4
MLH1 PPP3CC
RBP1 ING1
PRKCZ PAWR
PLA2G2A ALOX12
VAC14 FIG4
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FYN CSF1R
BRCA1 ANTXR1
PFAS BCAR3
PROP1 CTNNB1
FYN TSKS
CDK4 SMC1A
E2F1 NCOR2
APBA3 APP
RAD51 RAD18
WDR48 NOP10
YWHAH ESR2
SOD1 HOXB2
ESR1 MAPK1
PIK3R1 AKAP6
CSNK2A1 SET
PLCD1 CALM2
CYP27B1 SRC
TRIP6 THRAP3
PKM2 EXOSC5
DDAH2 TRIP13
IGF2BP1 FTSJ1
PIK3CDTNPO2
PSMF1 PAK7
RPF1 NDFIP2
MEN1 IQGAP1
HGS RPF1
SERPINA3 CTSG
ARF6 HDLBP

CAPNS1 DRG1
SNAPC5 SNAPC1
THBS1 SCARB2
GALNT10 MUC7
RPAP2 UXT
CTBP1 ELAC2
APAF1 PPP1CA
NFKBIE NCOR2
HSP90AA1 DNAJC7
APIG2 RPF1
OGT MGEA5
CDKN2A DAXX
HDAC3 HDAC5
USP19 SLC1A5
BSG CAV1
ABCB1 LAPTM4B
LENG8 TOLLIP
SLC9A3R1 PLCB1
MSN CASP8
ATG12 EPB41L5
IFNAR1EP300
PPP1R15A TSN
OS9 SEL1L
TSG101 RNF41
S1PR4 GNAI1
TNFAIP3 RIPK1
HSF1 HDAC1
NDC80 NEK2
PLK1 CEP97
FAM46A EGLN2
NRXN1 MYO16
PLSCR1ZNF581
CSTF2 BAG6
CAPNS1 RUVBL1
CCDC85B FASTKD5
STRN3 STRN4
GRB2 ARHGAP32
EIF1B PCNA
SNAPC5 BATF
NRAS DNAJB1

POLR2C COBRA1
VSNL1 GF11B
ATN1 WWP1
RPRD2 UPF1
ERBB2 IRS1
NR3C1 STAT3
ANXA1 YWHAZ
UBE2D3 TRIM8
PRKAR2B NBEA
TUBG1 TUBB2C
EPB41 TPT1
OTUD4 NMD3
DYNC1LI2 EPB49
SLC9A3R1 ADRB2
DMD SNTG2
FAM134A KIAA1377
RELB DDX1
SF3B3 SREK1
CD63 TSC1
SNTA1 UBE2V2
HLA-F LILRB2
ICAM2 RDX
UNC119 AAGAB
NFKBIB POLR1D
HDAC3 ZNF148
NUP155 GLE1
USP12 PHLPP2
HPRT1 TRAF6
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PTPN4 KAT5
EPHA2 SLA
TP53 KAT2A
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MTOR MLST8
RASGRF1 NTRK3
NRP1 SRRM1
CD48 CD247
MAGEA11 ILF3
CLOCK ARNTL2

GTF2H1 MCM2
NECAB2 NOC4L
PSMD10 PSMC4
CDK8 KAT2B
CHMP2A MITD1
SUMO2 ARX
DAND5 PSMC5
RXRG NCOR2
SUPT3H MED1
SDCBP WDR91
PLK1 TUBA4A
CYP27B1 CSNK2A1
RANBP9 USP42
GAPDH CAMK1
GTF2H1 GTF2H5
FCHSD2 CCDC85B
EIF2B2 EIF2B1
XRCC2 RAD51L3
PRSS23 FXR1
HSP90AB1 NFKB1
L1CAM PEA15
PDIA3 CBF3
MAPK14 PBRM1
ALOX5 ACTB
TTI1 C8ORF41
PIAS1 DNMT3A
EIF3B EIF3E
NFAT5 FOXP3
ENO1 AGTPBP1
GRB2 ZMYM5
ESR1 SMAD4
CTDSPL CDK9
SNUPN ENO2
TNFAIP3 LAPTM5
ADAMTSL4 KRTAP4-12
C6ORF211 GSTK1
KRT18 NME7
CSF2RB SYK
ZNF24 ZNF192
ILF2 CDC5L

IQGAP1CLIC5
TBL1X CORO2A
TSHR FLNB
SIX6 GTF2A1L
HNRNPH1 MAP3K3
MATR3 MEPCE
VTN ITGB8
ATG12 MOV10
YWHAH CREBBP
UACA CELSR3
MCL1 BAD
PLSCR1PHLDA1
NRIP1 CEP70
GATA2 POU2AF1
GABRA2 MDM2
TERF1 KPNB1
RRAS EEF1A1
MAP4K4 CCDC88A
TMOD1 TMSB10
COIL PICK1
ESR1 HDAC1
XPOT XPO7
MCC NPEPPS
PTN MYCBP
SMAD1 ZSCAN4
DYNC1H1 TRAF6
PRPF3 DPY30
DDB1 RFWD2
GPRIN2MDFI
RFX6 LMO3
RBFOX2 ELAVL2
RAP1GAP MLLT4
MAD2L1 KLHL13
LCK TUB
ITGA2BCALR
ORC1 ORC2
HSP90AA1 NANOS3
HSP90AA1 NOS1
C21ORF58 GRB2
IKBKE SDS

DHX15 TAF10
ATF1 CREBBP
PAK4 YWHAG
ZNR1 UBE2D4
FAS C14ORF1
EIF5 CSNK2A1
UBE2D3 TRIM55
UBE2I C18ORF25
LRP2BPTSC22D4
RAMP1 CALCRL
GATA1 LMO2
ESR1 TDG
PTPRS FEZ1
USP11 OTUD1
EGFR CEND1
KIT PIK3CG
RBBP7 CREBBP
NRIP1 YWHAH
MED10 MED23
DAPK1 UNC5A
CUL4B DCAF6
AGRP MC3R
DLGAP1 DLGAP3
SLC38A1 C7ORF64
CCL1 CCR8
PMPCB FXN
TJP1 OCLN
E2F3 RYBP
CDK8 ESR2
PKN3 ARHGAP10
XPO1 NXF3
HSPA5 MAP3K8
SHC1 PTK2
CREBBP PLAGL1
GPANK1 CCDC85B
BRP44LMAGED1
DRD2 CALM2
ROBO2 UBQLN4
BLZF1 GORASP2
ESR1 MED21

ASCC2 OLA1
TFE3 PHB2
HLA-B CAPZA1
JUP ARHGDIA
PLEKHF2 RABAC1
CDK8 CREBBP
MCC SEC13
DVL2 FZD4
ABL1 PKD1
ABL1 LRP2
ACTN4 PTPN11
SNIP1 ZMYM5
E2F1 CTDP1
RFXANK HDAC5
SMAD4 UHRF2
ASCC2 CUTC
HAP1 CBX8
CDC42 KAT5
RPS27A ARX
PDLIM1 VIM
TSC22D3 HPCAL4
SRI RUVBL1
TAF6 TAF9
CIB2 MYOD1
SAP30 MXD1
CRKL CBLB
PRKACA HNRNPD
TNFAIP3 KRR1
YWHAQ RABEP1
ODF1 SPAG5
PRKCA CD53
KRT18 YWHAQ
ABCA1 PRPF8
HDAC1 HIF1AN
QARS TRAF2
KCNE1 PRKCA
XRCC5 RFC1
TRIP13 GLYCTK
TGIF1 SDAD1
NCF2 SYTL1

TAF6 RBBP7
CSN2 PAK1
IKBKE STRAP
UBC TGM2
EPS15 DNMI
IFNAR1PRMT1
TIRAP IL1RAP
RPS27AHDAC6
RASSF5UBQLN1
PSMD14 PSMC2
ATG12 RNMTL1
GLI3 SMAD1
RPF1 GGA3
GLI3 SMAD2
DSTN ACTG1
RHOQ PARD6B
FOXO3 NR1H2
UBE2E1 RING1
SETDB1 HIST3H3
EPB41L1 STARD13
BCAR1 PKD1
PSME3 BAP1
RUNX1 FHL2
TNF POU2F1
ARL1 GCC2
HLA-C CLTC
FYN HCN2
ATP1A3 PCBD1
KCNQ1 TRAF6
RPS16 IKBKE
PRKAB2 PRKAG2
RAB5A RIN2
GFAP SMAD2
RFXANK DDOST
APBB1 WIPF2
ADD1 PRKCD
VAPB VAMP2
KRT18 USP32
ITGB1 ACTN1
EGFR UBASH3A

SLC9A3R1 PLCB3
HIVEP1 SOX10
AIP AHR
ULK1 PRKAG1
ITGA6 ADAM9
BDNF NANOS3
NUDT21 SIRT1
VASP ZYX
PPARG NCOA2
TRIM21 CUL1
UBE2I HIPK3
RALGAPA2 RALGAPB
RAP1A APBB1IP
HLA-F TAP1
RBL1 SMAD4
PDX1 PRKDC
TYROBP TREM1
POLB WRN
NSF GABBR1
PTP4A3 CUL2
RAF1 SFN
KAT2B TRRAP
RAF1 YWHAB
HPRT1 PRKAB1
TGFA SNTA1
SNCA LRRK2
MDM2 RCN2
THAP7 TRAF2
CCNK ATXN1
BCAS1 DYNLL1
HNF1A RHPN2
IPO7 RPL5
PARK2 UBASH3A
STAT3 SYK
TADA2A MYC
CCNB1 CDKN1A
LEPROTL1 KLRG1
C1QA CR1
PARP1 POU2F1
MED1 MED28

CNOT1 CNOT2
USP12 HRH1
TBX2 CEBPE
NCR3 CD59
GRB2 BAZ2A
CLDN3 CLDN1
SOS1 ITS2
RAE1 COPS8
UBE2I CHMP4B
NFKBIE TUBB4
PDXK IKBKE
PTPRS SETDB1
CHRM2 GRK5
BMP1B TRAF6
KRT36 DNPEP
POU3F3 SOX11
TGFB2 TGFBAP1
STX5 COPS6
RPS27A APPARGC1A
CYCS COX4I2
FOS TMSB10
TAF1 SOS2
IKBKE PTRH2
GAS1 BIRC2
TRIP6 CATSPER1
PSMD4 DCLRE1B
CFL1 PSEN1
TAF6 TAF12
GADD45G MED31
LRP4 DFNB31
RBBP7 HDAC2
RACGAP1 MAP3K4
SRY KPNB1
TF TFR2
SMARCA4 YWHAZ
DNMBPWIPF3
ACTN4 SLC9A3R2
WDTC1 MED23
COPS6 KLHL20
RPP38 RPP25

AKAP3 SPA17
ACTG1 PTPRO
SRSF1 CDC5L
SNRPB SNRPD3
PRKAR2A PRKX
SNRPB SNRPD1
RPS27A MAPKAPK5
NME5 DYDC2
UBE2I KTN1
CSDA NFYB
PPP5C CSE1L
MAP3K6 YWHAG
APEX1 HIF1A
YY1 ZNF232
RGS3 YWHAE
RPAP3 GPN1
SRI PSEN2
ATN1 NR2E1
APC MACF1
IFNAR1 GNB2L1
KIAA0513 WWC1
HIST1H4I DNTTIP2
CSF2RA PIK3R1
SOCS1 RPS27A
ESR1 ESRRA
CDK4 MMS19
FANCMAPITD1
MEN1 SIN3A
TAL1 GATA2
COIL TCEB3B
ZNF423 USP7
PRKAR2A SMAD4
TAL1 GATA3
STMN1 UBQLN4
FOXO3 HIF1A
HSP90AA1 MST1R
IKBKE CNPY2
KIT GRB7
ATN1 NOC2L
FOS ACTN1

CCT6A MOBKL3
SMAD9 RANBP9
SOCS1 GRB2
DCTN1 RPGR
RXRB STX18
APP PSEN1
MDM2 FEZ1
XPO1 ELAVL1
PFKM FHL2
TMPO GRB2
BAIAP2SHANK1
CIAO1 HSPB1
FYB CBL
CSR3 HDAC4
EFNA1 EPHA7
SRC CD36
RCC1 TNIK
VASP LPP
H3F3B HDAC5
FER STAT3
RFC4 ATAD5
CCDC85B CCDC33
PRDM1 AES
SUMO3 PIAS4
AP2A1 SYT3
CAP2 YWHAE
PTK2B TLN1
ELANE TFPI
DVL2 C16ORF48
SPTBN1 CPNE1
STAT3 PTK2B
STX17 STX5
S100A9 GRB2
PRNP ZNF408
MTPN TNFRSF10D
EYA1 SIX2
HOMER3 TRPC5
NCK1 RALGPS1
PRNP NCAM1
NUP62 PBX2

COL5A2 COL5A1
EIF3F EIF4G3
EGFR PIK3R1
ACTA1 EPS8
CHEK1 BRCA1
SOX30 TRAF2
ERC2 RIMS1
PFAS PHB2
DLG4 FZD1
HNRNPC CSNK1A1
PRKCA SNAP25
HTR7 GPRASP1
VIM PPHLN1
IFNGR1 STAT4
APP RNF32
AP2A2 ATM
HIPK2 WNK1
E2F4 KAT2A
FBXO45 USP11
HSPB3 SETDB1
KRT18 DSPP
INSR DOK1
ATF2 HMGA1
IGF1 IDE
MAPK8 BAD
SMAD3 ZDHHC4
ACTR3 ACTR2
S1PR2 GNA13
ITGB2 RDX
ACTA1 DLG1
IKBKE VDAC3
MAPK8 ARHGDIA
TRAF5 ZMYND11
CTSL1 CUX1
OTC TOMM20
SRF CEBPB
CD81 RNF128
GRIN2B IL16
BTBD10 ACIN1
RPAP3 IKBKG

ATP5J2 NDUFA6
ATG10 ATG3
UBE4B CASP6
UBE4B CASP7
SRGAP2 MYO1G
PLCG1 SUV39H2
EXOC4 PLEKHA5
NECAP2 GGA2
NECAP2 GGA1
NCK1 RPL13
CHTA GSK3B
HNRNPA1 HNRNPAB
APC YWHAG
SKP1 TBK1
PIAS1 STAT1
BCL2L1IKZF3
NKX3-2SMAD4
CHTA TAF6
USO1 NSF
CCNE1 CDC25A
SF3A2 CTNNB1
NFE2L2CREBBP
SPHKAP SPHK1
NQO1 HSPA4
UBE2N CNTN2
PSMB8 PSMB7
MED13 TRRAP
ACVR1 RHOJ
SKP2 ELF4
SRF RPS6KA1
UBE2L6 RNF19B
MED17 PPARGC1A
MAP3K3 CCT7
HDAC2 EZH2
CDK2 GSTK1
HNRNPA1 MEPCE
TGFA RHBDF1
NGFR IL2
PON2 RUVBL2
NR3C1 SMAD3

NFKBIA RPS6KA1
YWHAQ CDC25C
GOPC ACCN3
TP53 CUL7
XPO1 AICDA
YWHAQ CDC25A
LMO3 MBIP
DNAL4 FHL5
YWHAQ CDC25B
TUBB2A RABAC1
RXRA NCOA1
TCEA2 SH3GL2
TP53BP2 BCL2L2
ERH ILK
RIPK2 KIF14
EPM2A PPP1R3C
YAP1 NFE2
RHPN1 EFEMP2
ZNF165 EWSR1
RPS14 MEPCE
CCNB1 CDKN1B
RUNX1T1 GF11
APP NUMB
CYP27B1 BAG1
DPP4 CXCR4
PPP1CBPTK2
RFC2 CHD1L
NFATC4 CREBBP
GSPT1 HLA-B
UBE2D3 RNF26
HSP90AB1 MDH1
GNAI2 IL8
CEBPE BATF3
SOX8 OLIG2
PCBD1 KLF13
PSMC4 PSMD6
FHL2 TRAF6
RPN2 BRE
NANOS3 NOSTRIN
NUMB ITCH

TAF1D HAP1
KDM1AZMYM3
TP53 DEC1
TRIP10 INPP5D
ZFYVE9 SPG20
PPP3CBSLC8A3
SFN ST5
WIPF1 CRKL
SNCA IARS
IKZF1 CTBP1
RGS12 ITGB1
PARP1 H3F3B
RAG1 CRK
TK2 CDKN1A
TUBB NFKBIA
STAU1 MAP3K14
SREBF1MED12
EIF3H EIF3E
RXRA SMAD2
SMAD1 TTF2
ERH UNC119
GRB2 ERFF1
FAM86A PRTFDC1
ABL1 MEPE
CTBP1 HIC1
PSMD10 TP53
GMPS SUMO4
SF3A3 U2AF1
CALM2 TRPV4
IPO5 NUP214
DAZAP2 FAM46B
PARP1 MYBL2
MYSM1WDR77
YWHAZ TUBA1A
KIT PTPRO
GLUL GRB2
AGR2 TAGLN
WDR3 PDE10A
MNS1 EWSR1
MYC MTHFD1L

HSPB1 TSC22D1
PIK3R1 CDC42
AP2A1 CLINT1
CPLX1 VAMP2
PLCG2 MED28
SRP14 ATG5
GIPC1 RGS1
CUBN GIF
ZMYM2 RCOR1
ENO2 IL17B
YWHAH AKT1S1
TP53 PTEN
CFTR RPS27A
EEF1A1 STMN2
ASB2 RNF7
FN1 SCGB1A1
RB1 ATF2
SUPT3H MED16
CTNNB1 CXORF26
RGS14 RAP1A
MLH1 COPA
CDH2 PTPRO
KIAA1267 NECAB2
HNRNPK MDM2
IKBKE RUVBL2
SERPINA5 COPS6
PLSCR1 EXD3
TNFRSF1B TTC35
TOP2A PIN1
ABL1 RTN4
ITGAM AUP1
KPNB1 FAN1
GNG7 GNB4
HIPK2 CHMP4B
HSPA1L MAP3K1
SCNN1G AP1M2
AP2A1 RPS27A
PARP1 RARA
FLT3 SH3BP2
INHBB ACVR2A

ACTN1 ZYX
AURKABRCA1
CXCL12 CCR4
SMARCA4 RCOR1
MCM6 SCNM1
POLR3A EWSR1
TP53 KPNB1
ZMPSTE24 FTSJ1
CYP27B1 RXRG
LMO1 LDB1
KIT PIK3R1
AP2A1 GRB2
MEIS1 HOXD4
RB1 BNC2
GOT2 ZDHHC6
S100P S100A2
YY1 CDKN2A
CHGB CFBF
ATF7IP SVEP1
HNRNPA1 ILF3
HNRNPA1 ILF2
GNAS OPTN
NFYC ADNP2
TCEA1 CDK8
TOP2A HDAC1
NR4A1 FXYD3
NFKBIE IKBKG
CDK4 BRCA1
MEF2A HDAC9
EZH2 PIN4
DLG2 NLGN2
GRINL1A RBM4B
MYL6 MOBKL3
UTRN MARK2
GRIK2 GRIK5
MAPK14 USP54
UBE2H RNF216
TRPC3 TRPC4
VAMP7 DNAJC5
RELB SMARCE1

TLR5 TLR1
SMAD3 HEYL
MYC ECT2
APOA1 LBP
CSK PTPRJ
MAPK1 EIF4EBP1
PAPOLA YWHAE
MAP3K12 RABEP1
MAX EPAS1
PCNA TCOF1
YWHAG MPRIP
C1QBP SRSF9
IKBKE RUVBL1
EPRS MCC
UBE2D3 RBCK1
RAD51 BRE
CNN1 MYO1A
PARP1 MYB
SMAD9 SF3B1
PCNA TPI1
COPS5 SAP130
RPS20 NDRG1
PFN1 RHOQ
SCN1A SNTA1
PDGFRB PDCD6IP
GRB2 TSXS
ADA NR3C1
GRINL1A WDR89
UBE2D1 RPS27A
GPR143 GNAI1
HK2 PRKCE
USF1 RBBP5
MCC RAB7A
HDAC1 UHRF2
ABL1 SNX12
CUL4A WDR26
TNNI1 CCDC85B
FASLG PACSIN2
PFKM MAPK3
NR4A1 CHD4

ESR1 HSPA4
TOPBP1 RAD9A
BUB1B ANAPC7
GIPC1 GEMIN4
TIMM44 TIMM17A
ANKRD28 USP21
SMURF1 MAP3K2
MYC IQGAP1
RANBP2 ARX
ATF7IP PIAS3
PRKCH USP34
FOXG1 TLE3
EIF3D MCC
SBK1 FCHSD1
FOXG1 TLE1
MAPK8 CASP10
HSPA1B SHC1
PTPRA PTPRD
ACTA1 DNMBP
MCC TFAM
SCMH1 MAML3
ABL1 G3BP2
PPP2R1A RAB18
MEF2C VGLL4
PSTPIP1 KIF14
PSMC4 PRKAB1
PRKCA CDC42
RPL35 MAP3K14
GNAI1 PTPRU
ATP2A2 CAMK2A
RAD1 RAD17
TOM1 CLTC
RPS9 DSTYK
CTBP1 EHMT2
SPOCK2 SPOCK3
XPO1 SMAD1
SKIL PSG3
SUMO2 ZBTB33
MPDZ HTR2A
BMPR1B PAK1

DMXL2 WDR7
APC2 ANAPC11
ETV6 PIN1
SMAD1 STUB1
CSTA CTSH
PIK3R1 POLR1B
MUL1 UBE2W
FEZ1 SCOC
DSG3 CASP3
MED21 MED18
RPS27A BRSK2
CTSS SERPINB4
CTSG F2R
HIPK2 TP63
DISC1 C14ORF166
PDLIM4 ZNF408
VTN PRKCG
RXRB RAB3GAP1
GJB3 TJP1
WWP2 RPS27A
NFIC TKTL2
TP53 RCHY1
VTN SERPINE1
ITGB4 SREBF2
TP53 ZNF385A
ABL1 SRC
IL17RA TRAF6
EYA3 SIX2
LMO2 MLLT4
RPS27A CCAR1
TBP DRAP1
NUAK1 KRT77
SRC ID4
SMAD3 HIPK2
ERBB3 RGS4
ESR1 POU2F2
AR PRKDC
CD81 DLG5
UBC TNFAIP3
P2RY2 CD47

RAD21 CDCA5
ARF6 AIMP1
MET SOS1
SUPT3H SF3B3
DCP1A TTF2
P4HB YWHAZ
TOB1 SMAD3
UBE2K RNF41
TAF9 HAUS6
GZMA HMGB2
MYB PTMS
EP300 SRCAP
ZWINT MIS12
DES TRIM7
SERPINA1 MMP7
ABL1 XRCC6
MAP1LC3C UBA5
PRKDC RELA
CDK1 PKMYT1
RIPK2 VIM
CDC27 USP11
KDM1AHDAC2
CCL5 VCAN
ATXN1 SETD2
CCNT2 BRD4
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IDH3B PRMT1
GRIA1 EPB41L1
GPR1 GNAI1
CFL1 TESK2
ZFYVE9 SMAD3
CDC42 ARHGAP44
CD7 PI4K2A
HNRNPH3 SUMO1
HUS1 FEN1
MARCH6 PPARG
CD44 SLC7A11
TNFRSF10B MADD

GAPDH RPA2
PSMB2 TRAF6
C20ORF27 RALYL
TLR3 IRAK2
MEPCE IGF2BP2
SMARCA4 NEUROG2
LAMA5 SV2A
USP8 KIF23
FAS UBA7
PLCG1 MTUS2
DVL2 SNIP1
SMAD9 PSMD8
NUDT21 MYL6
MYB FBXW5
WDR48 ZNF639
SMAD7 STAMBP
ATG12 MAP1B
SUN1 TSNAX
NUTF2 LUC7L2
CASQ2 ANKRD1
SMAD7 ZBTB11
GRAP2 GNB2L1
EIF2S2 EIF2B5
CAST CRK
NXT2 NXF1
CCND1 PPP1CB
PRKCG GPRIN1
HMGB1 NFKB1
S100A10 SETDB1
QKI THAP1
PGR PRDM2
HDAC4 YWHAE
PPP1R8 SF3A2
RAC1 FAM70A
CCDC85B C10RF65
YWHAQ KLC4
BCR GAB2
MAPT YWHAB
MCF2 RHOA
GFI1B DTNA

ADRA1B PPP1R9B
BCR MLLT4
NKX3-2HDAC1
LMO2 STAT1
CBL BLK
TTF1 KAT2B
IGF1 IGFBP4
PRMT5 NCL
IRAK1 PRKCZ
GRINL1A SCMH1
RFC5 INSL6
RSRC1 ACTR3B
KCNH4 ID1
BTAF1 MVD
PLN DMPK
ACTB CARM1
ARRB2 CLTC
KRT15 USP2
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PIK3R1 GTF2H1
GNB1 DISC1
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MDM2 TSNAX

ZFYVE9 TGFBR2
HSPA5 PSME3
CEP290 GRB2
WWP2 IL6R
NCOR1 BAZ1A
FARS2 USP45
CUL3 COPS6
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RPS11 IKBKE
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PANK2 QRICH2
SMAD1 IRF2BP1
MECOM KAT2B
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YWHAZ PANK2
ATF6 SREBF2
SPDEF NKX3-1
SCAMP2 SLC9A7
HRAS AGTR1
PEX19 PMP22
ADRBK1 PDCL
CTTNBP2NL ZRANB1
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SOCS5 EGFR
DLEU1 EEF1A1
LPA CANX
F2 GP1BA
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RALA PPP2R1B
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ATP1A1 MAPK3
PVR TJP1
PARP1 TRAF2
XPA GTF2H1
EIF2S2 PLEKHM1
DAND5 BCOR
PRLHR PRLH
ABL1 CENPA
PPP2R1A NFKB2

BLOC1S2 DTNBP1
GFM1 TRIM55
PTPN2 UCHL5
F8 MCFD2
RNASEH2A APLP2
SOD3 FBLN5
CCNE2 CDK2
INSR FRS2
CAPN1 GNG12
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TGFB1 PARD6A
EZH2 NINL
RXRA ZNHIT3
RXRA MED1
QKI RBFOX1
HAX1 DGKD
SMARCA4 HSF4
PIM1 SND1
ITGB1 CD81
SPI1 NFYA
FLNB PSEN1
ACE AGTR2
SRP72 SKIL
AR GTF2F2
RXRA TRIP10
CASP6 PRKCZ
RXRA JMJD1C
USO1 GOLGB1
RXRA TRIP4
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HMOX2GIT1
XIAP MAGED1
APC SMC3
HLA-B CRK
FASLG SUMO1
PDS5A AKTIP
HCK RUFY1
RAD23A RPS27A
USO1 CASP8

DLG4 SHANK2
NAA11 NAA15
LTA TNFRSF1B
MYOD1ID1
ZBTB16THNSL2
PPP1CABAD
PRRC2A MAN2C1
GRB2 PNMA2
PRMT5 POLR2C
PPFIA2 CAST
KDM5CCBX3
BVES PYCARD
APP GSK3B
FBXL15RAB40C
BCL10 CASP9
FIBP GEMIN4
LIN7A MPP5
PTBP1 CALCOCO2
MYC TAF12
GRB2 HCN2
CREBBP HIPK2
TP53 ZNF225
SMAD3 SPTBN1
PAN2 CCT7
KPNB1 TRAF6
CUL4A WDR76
PSMF1 PDLIM7
SELE ACTN2
OS9 MEP1B
PIAS1 SKIL
TRIM5 BTBD1
SUPT3H TAF9
CUL4B DCAF4
PSMC4 UCHL5
PDE6D RAD23A
STK3 ATG4B
SAP30 CIR1
RBM8A IKBKG
RBM10 MYSM1
GRIN2D NANOS1

PRPF6 PHLDA3
GH1 GSTM3
SMARCA4 ZMYND8
FGF6 FGFR2
HOXA1 TRIP6
ACTB VSNL1
ABL1 CABLES2
RPS27AIRF8
DAP SETDB1
PRKAR2A KCNQ1
HSPA4L ARF6
TLR4 TIRAP
SUMO1 PARK7
TRAF2 APEX2
UBE2D2 BTRC
SMAD1 OAZ3
CIAO1 MLF2
PTPRG MAPK3
ACTA1 HDAC8
PKD1 PTK2
STAT3 KHDRBS1
HCLS1 CSNK2A1
NPHP1 FLNC
TLX3 TLE2
TLX3 TLE1
NFYC KIAA0240
SFN RAE1
SUMO4 ACO2
CNP TRAF6
RANBP2 SAE1
PPP2R1B AKAP9
DFNA5 PTN
DMD KCNJ12
CCNA2 RBL2
PCBP3 ARF6
AKAP8 CCND1
SMAD5 MBD1
KBTBD7 GABARAPL1
ITGA5 CTGF
ZNF24 SETDB1

MOBKL3 TRAF3IP3
FBN1 FBLN2
EIF1B AHCY
TNF DCN
CSNK2A1 WDR48
ZEB2 RBBP7
IGF1R EHD1
CSF2RB YWHAZ
FLNB RANBP2
PTK2 SORBS1
EGLN2 HIF3A
WNK1 FAM53C
CCL2 MCM3
WNK1 FAM13B
DAND5 PHC2
ERBB4 NRG4
NCOR1 RUNX1T1
MAGEB2 FUS
MYC TH
RAB6A BICD1
ZNF24 R3HDM1
MOBKL3 FGFR1OP2
RXRA NFKBIB
NR3C1 LCK
ASAP2 TBRG4
USP4 TP53BP2
MEPCE HNRNPAB
KCNE1 KCNH2
TLR4 TLR1
PSPH ERH
PSMC4 USP14
CD22 AP2M1
KRT20 ABI2
PSTPIP1 ABL1
POLR1A NOLC1
SERPINB2 PSMB1
WWP2 VASP
RARA NPAS2
IKBKG NFKB2
ARNT NCOA1

HNRNPAB POLR1E
FOXK1 FYCO1
PXN NDEL1
NR3C1 FYN
MATR3 TTF2
AKT1 COMMD1
DDR1 BEND5
PARP1 GZMB
RPF1 SMAD3
HOXC11 STAT3
FYN CENPA
ENO2 ANXA11
DMRTB1 EWSR1
ABCA1 DLG2
USP19 ACADSB
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RAB27B UNC13D
DMD DISC1
ELAVL1 CARM1
MAPK14 MKNK2
BAG2 TAB2
SNCA MAPK8IP1
HBM FZD8
MCM5 HIST1H4I
FOS SUMO4
CCL1 HUWE1
RBM25 RAC1
MPG MOBKL1B
SLC31A2 RAMP3
AKAP3 AKAP4
SLC31A2 RAMP1
SLC31A2 RAMP2
CCR3 CCL28
NPHP1 PTK2B
TRAF3 TRAF3IP3
GBAS HADHA
CAP2 PSPH
BRPF1 ING5
LPL CALR
CCL2 ORC2

PAK3 ARHGEF6
ZAP70 PTK2B
BUB3 TNIK
UBC BRAF
RAB3B SMAD1
CCDC112 C1ORF190
MTNR1B ITM2C
RPL18 MAP3K1
PNKP KRTAP4-12
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CRX EP300
SMARCA4 ADNP
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GADD45G PLEKHM1
SRP14 NSFL1C
ILF3 RPAP1
AKT1 CAMKK1
TNIP1 RNF11
SMAD9 KDM6A
EZH2 KLHDC2
C9 C8A
CREB1 AKT1
KCNK3 COPB1
IFNG PDIA3
PCNA HDAC1
MAP3K7 RANBP9
WDR48 GPN3
ETS1 GNAS
GRB2 VAV3
PSMC4 TRAF6
RAB6A CHM
TP53 PRAM1
EEF2K RPS6KB1
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RELA ARHGAP21
PARK2 NDUFA4L2
TCF21 APEX1
TCERG1 HNRNPU
LMO4 ITSNI

ERCC2 RAD52
RBL1 BRCA1
RGS12 HRAS
TIMM50 MAP3K14
EWSR1 BAD
PIK3CDASCC2
TXNRD1 GLRX2
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HLA-G SEC14L3
HLA-G TAP1
PRPF40A FMNL1
PRKCD PPAPDC2
SUPT3H TRRAP
ID2 INSL6
HCN1 HCN3
RB1 E2F4
PCBD1 ZNF451
ANAPC1 RPAP3
MEPCE SNRNP27
SIVA1 ABL2
MAPK1 FHL3
RXRB PCSK6
PPP2R1A SGOL1
CD2BP2 SNRPB
KRT9 MDM2
ETV1 RPS6KA1
CLSTN1 BAHCC1
GH1 NPEPPS
XPO1 RPS6KB1
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C10ORF12 EWSR1
MMS19 BRF2
IL2RG RPS27A
MLLT4 RIT1
GRB2 BRPF3
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SREBF1MED15
CTBP1 LCOR
BUB3 APC

ARCNI PAN2
SCMH1 UBQLN4
PGRMC1 SCAP
HIST1H1A NAP1L4
CENPA ZC3H13
CBX3 L3MBTL1
ELF3 KRTAP11-1
NDRG1 AP2M1
TRPM7 TRPM6
STXBP3 GEMIN4
ITGB2 CD226
TBC1D4 PIN1
TNFRSF14 RNMTL1
H3F3B ASH1L
MED21 PPARGC1A
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NECAB2 GTPBP10
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RGS2 GDE1
PRPF40A HNRNPF
GRB2 SHC4
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CREB1 KIAA2018
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SNCG MAPK8
BAG2 PSMC4
HCFC1 HDAC1
GTF2B CTBP1
GUSB CES2
BMI1 KAT5
ATF7IP GMEB1
FGFR1 PIK3R1
NT5E AFF1
PITX3 SFPQ
CRYAACRYGC
FN1 IGFBP3
PPARA STAC3
HIST1H1E L3MBTL1
TTK CDC16
YWHAZ PARD6B

RELA TLE1
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SNRPD3 SF3A2
GOLGA2 AKAP9
MOBK1B TRAF6
DTX1 ITCH
CDC5L PCBD2
YWHAQ UBQLN4
SERPINB9 IGSF21
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JAK1 JAKMIP1
SPTBN1 MAP3K3
COL1A1 P4HB
SMAD9 BTG2
KDM1AZNF516
MYC NUP93
FYN RIN3
MYCL1 MAX
UBE2D1 RNF181
TCEB1 SOCS4
SUMO2 GATAD2B
USP2 MDM2
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MAGEA11 SPRYD5
EPS15 GRB2
TGFB1 TGFB2
FCER1A MS4A2
FFAR1 GNAQ
CEP70 C16ORF48
EPS15 RPS27A
CUL1 COPS4
CD3D CD247
RAC1 DMPK
FGFR1OP PPP2CA
PIK3CGBECN1
RPS27ACCDC50
KRT18 YWHAB
UBE2I TRAF4
PTPRS MOBKL3
WDR11 GABARAPL1

LRCH2 RPAP3
ZBTB16HEATR2
G3BP1 ATXN2L
PTPN12 SMAD5
UBE4B VCP
MYD88 STAP2
COPS6 VPRBP
MRPS12 INSL6
YWHAG CDK17
MECOM CREBBP
YWHAG CDK16
DIO2 WSB1
STMN1 VHL
SOCS7 ABI1
HSPA1B SUMO4
AXIN1 PPP2CB
MEN1 NFKB1
MAP3K3 STUB1
ZAP70 PAG1
SHC1 GAB2
GOT2 CCNA1
GH1 PSMA3
ARNT SENP6
REG3A TRHDE
EPB41 PSMB3
TPM2 PDLIM7
FAS CRMP1
TAF5L KAT2A
TAF5L KAT2B
FGF18 FGFR3
FANCA PIK3R1
CNOT4 UBE2W
ATF2 RNASEH2A
H3F3B BPTF
NOVA1 SMARCC2
ACP1 IKBKE
ANXA7 S100A10
GABARAP MLH1
TRIM21 SKP2
TPM3 MCC

GTF2B REST
MAG COL9A3
IKBKB PARP1
AEBP2 SETD8
APP SLC40A1
MAG COL9A2
NUP214XPO5
HDAC1 PHF12
VIM PSMD7
NBN H2AFX
PMCH MCHR1
AHR PTGES3
GORASP2 TMED3
MAPK6 SLC27A2
ITGA5 PAK2
EZH2 PIN4
VAMP7 AGFG1
PGR ZBTB17
MYB FBXW7
GORASP2 TSC22D4
FPR2 CAMP
HBEGF BAG1
LONP2 MAP3K5
SETD1A UQCC
AP2A2 ATR
CCND3 PPP1CB
TPR NUP93
FRK PTEN
CCT4 MEPCE
TIE1 SUMO1
COL1A1 CAPN1
MUC1 PRKCD
BIN1 SH3GLB1
FLNA GRM5
HNRNPA1 SREK1
NEK2 PPP1CA
HMGB1 TFE3
AGR2 POM121
ESR1 COBRA1
DDB1 FBXW5

PPP1CABCL2L2
PAK2 DST
MGEA5 RNF32
UFM1 UBE2W
IL6 OSM
SYNCRIP EPRS
H3F3B DHRS12
CFLAR BCL2L1
NSF VT11B
SPTBN1 RINT1
TRPC4 TRPC6
PI3 LOR
MCC SSRP1
CALR TNFRSF10D
TMEM66 SNX15
TK2 CCDC90B
PEX14 PEX5
NCL H3F3B
CTSE BAG6
EXOSC6 XRN1
DLEU1 TUBB2A
SOCS1 JAK1
ESR1 EP300
FOXO1 CREBBP
ABL1 ASAP1
ZNF76 EP300
NF2 CUL4A
GRB2 ASAP1
SF3A2 PRCC
RHOD ACVR1
FAM115A EFEMP2
NAA50 TRAF6
STX7 VPS18
WDR4 METTL1
RPAP3 TELO2
CDC27 NEK2
LTBR TRAF4
GRB2 KIF26A
AHR NCOA2
ITGB2 FCER2

POLRMT TFB1M
HCLS1 ACTA1
GSN ACTG1
ESR1 CITED1
LDOC1 KRT18
YWHAQ DISC1
PLCG2 GRB2
TUBB4 SLC7A9
ICA1 KRT33B
ILF3 SF3A2
MCC SOAT1
AGR2 CCDC90B
RBBP8 BARD1
TLE1 RNF10
MCM7 CCNH
PPP1R15A KIF3A
IL2RB CISH
OTUD7B CCDC50
MCM7 MNAT1
RWDD2B DDX19B
WIPF1 GRB2
SGK1 ATP5D
MYOD1CDKN1C
CLN3 COX15
PRDX3 MUC7
PCCB CSNK2B
PIAS1 NIN
RRAS ZHX2
SGPP1 S1PR5
BIRC5 USF2
WNK1 TXLNG
PIAS2 GLUL
ORC4 MCM7
EDNRB GRK6
TAF5 TAF8
ARIH2 UGP2
RASSF2RASSF5
MDM2 TMEM87A
RING1 USP7
FBN1 HSPG2

IRF3 PIAS4
RALA REPS1
EXOSC6 DCP1B
GNG2 BTK
ARRB2 MDM2
NFKB1 PPP4C
VCAN CCL8
MAPK8 MAP1B
PTEN CSNK2A1
EWSR1 EZH2
HAP1 C8ORF33
CDK16 SEC23A
ZNF83 PAK1
TCERG1 FMNL1
AP1B1 CREBBP
EGF ERBB3
ARF6 NCAPG
SSBP2 EWSR1
MYBL2 RBL1
MYOD1MEF2C
NCOR1 RBPJ
PIAS2 AKT1
DLST CCDC86
MSL3 MYST1
CBX5 HIST1H3J
GRM5 GPRASP1
YWHAG MSL2
TP53 ERCC2
TP53 MAPK10
CAMK2N2 ARHGAP32
NANOS3 PPP2R5A
IFIT3 LONP1
ESR1 MMS19
EPB41 SAR1A
EFNA3 EPHA4
IRF6 TLX2
SSSCA1ALS2CR11
FHL2 CARD8
FLNA FILIP1
ASAP2 PLCG1

CCDC85B TCEANC
TADA3 ADPGK
SMARCA4 SMARCB1
NQO2 RELB
NDUFV3 PHYHIP
PHLPP1MARK2
EIF2S1 EIF2B1
YWHAE ARHGEF2
NUAK1 PRPSAP1
ZBTB25ZBTB1
GRPEL1 PRKAB1
PITPNANEO1
ABCG8 ABCG5
ESR1 BAG1
LGALS3 LGALS3BP
CDK9 RBBP7
KIF2A MYB
MAGEA11 EWSR1
PLA2G15 RNF7
GRB2 CBLC
PIK3CANEDD9
CYTH3 CNKSR1
GRB2 ALK
APBA1 LIN7C
RXRA CTNNB1
AHR TAF7
CDKN1A POLD2
LYN PPP1R8
PTPRCAP EEF1A1
EEF1D CTBP1
HDAC3 SREBF2
SGCA SGCD
DZIP3 TSG101
POLR2E POLR2B
ERC2 BSN
CSF2RB GNB2L1
ESR1 SMAD3
PF4 SRGN
YWHAE TAZ
GRB2 TPX2

IRF1 STAT1
MSX1 LHX2
CNKSR2 TNIK
PRDX1 PRDX4
TUBA4B IKBKG
ITGA5 ILK
YWHAH ADAM22
PIAS2 KCNH4
TFE3 FSCN1
FAM124A ZNF165
BMP2 GREM2
PPM1A SMAD3
IL12RB1 IL12RB2
S100B GFAP
VAMP1 STX1A
ABL1 BRPF3
MYC PPP1R2
KCNE1 KCNQ1
CXCR4 PTK2
NCF2 RAC1
JAK2 KIT
IPO7 HIF0
CALM2 CAMK2A
CDK14 TGFBR1
RAB27A MYO5A
ADRB2 SRC
SMAD1 ICK
MEPCE YTHDF2
TFCP2 MAPK14
PCNA CHAF1A
PAG1 GLS2
CYLD TRAF6
COPS2 INGX
USP7 KLHL8
RAD17 NHP2L1
AGTR1 AGTRAP
MTA2 PCNT
ESR1 SIN3A
HPRT1 GABARAPL2
HDAC4 HDAC7

UBE2I CBLC
KIT PTPRU
FLNA GRM7
FLNA GRM4
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INSR PTPRO
NCOA1 FOXA2
UBA1 RPF1
ZMYM6 KLHL13
RPS6KA5 TH
YWHAB SH3BP5L
PROC PROCR
HSP90AB1 STAT3
CDKN1A CREBBP
TAP1 MDFI
DAP3 ESR2
YWHAZ CRTC2
HLA-DQA1 TLE1
NUTF2 RAN
PDGFRA STAT1
RNPS1 SRRM1
PDGFRA STAT5A
PRKCB BTK
FZD9 WNT7A
UBE2K RNF167
GFI1B PDZD4
EED PPP1R8
YAP1 TEAD3
EGFR STAT5A
SYNCRIP APOBEC1
ETF1 IKBKE
CBX4 UBE2I
HDAC1 PRDM5
NBR1 FEZ1
ERH ACP6
PEX1 PEX6
EXOSC6 CHPF
EPS15 SLC6A3
APCS C1QA
CDH5 PTPN11

CHMP2B VPS24
CDKN1A HDAC2
SYN1 KAT5
CTNNB1 FOXO4
DCTN2 BICD1
ID2 PAX8
EGFR TJP1
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ADRA1D FLNC
CTTN ASAP1
ETV6 SIN3A
CRYBA2 CALCOCO1
CTNNB1 PKD1
CSNK2A1 ACACA
FRS3 NTRK1
CHGB MOGS
AKT1 TSC2
PFKL TAF10
ARHGDIB CDC42
CTNNB1 LRP2
MYB CREBBP
GTF2B IKZF1
DMD SNTG1
ETF1 KEAP1
PPP1R15A BAG1
PDGFRB BAG1
MYO1CEMD
GRIA2 PICK1
HNRNPU NDRG1
ELK3 MAPK8
ELK3 MAPK9
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PFKL TRAF2
YWHAE TAF9
CTNNB1 CTNND2
XRCC6 APEX1
MTOR MAPKAP1
ENG TGFBR2
DLG4 FZD4

CRYBA1 CRYBB3
MAPK1 GRB10
MRFAP1L1 TSNAX
NR3C1 ZBTB9
PZP CPB2
AGR2 MED31
CLTB CSNK2A2
PRKACA AKIP1
PEX7 PEX14
FYN PRKCD
APC YWHAQ
STMN1 PINX1
MEPCE LSM4
PARP10 WNK1
RPL11 BLMH
YWHAE BAD
SETDB1 ZFP64
GPRASP1 C8ORF33
BIRC5 EVI5
ABL1 FAM110A
ESR1 USF1
THRB CTCF
UBE2I ZHX1
CALB1 RANBP9
TRAF3 USP7
FYB FYN
DDIT3 CEBPG
HLA-B RANGAP1
BAG3 AMOT
PHF7 IKBKG
PTK2B MAP3K4
IL16 KCNJ15
RELA UXT
SMAD3 SAP130
RNF8 MCPH1
SYT1 C6ORF15
RPS6KA1 METTL1
GH1 RANBP1
AXIN1 PPP2CA
EGFR STAT1

PTPN13 RAPGEF6
NFKB1 MTPN
TSG101 NT5DC2
NRIP1 ESRRB
CDH5 PARD6A
HIST1H1C KPNB1
HDAC7 NCOR2
RXRA NR4A2
PRKCB PTPN11
CCDC92 PLEKHA5
UBE2N TRIM5
CLIP1 MAPRE1
MAPK1 PPP2R5C
MFNG NOTCH2
CUL4A COPS7B
DENR RPS27A
GNAI1 WASF1
MLL MTM1
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CCT3 VAV2
RND2 UBXN11
ASPH TRDN
RXRA MAPK1
KLHL22 KLHL13
CUL2 COPS3
SNTB2 MARK2
TXN APEX1
UBE2D3 BFAR
HIVEP2 RAC3
TRAF5 TRAF3IP2
KAT2B DDX17
PLCG1 INPP5D
SART3 MEPCE
NPM1 PLK1
TUBB4 Bmpr2
AKT1 MTOR
UBE2R2 DTX3L
MOBK13 RAPGEF2
EIF1B DSTN
MTM1 KBTBD7

ARHGEF9 SMURF1
MOBKL3 PLEKHM1
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THRB TRIP13
USP6 MDFI
MYOD1RUNX1
STXBP1 STX4
THRB TRIP10
RELA REL
IDH3B ATXN2
SQSTM1 GTF3C3
THRB MED1
THRB ZNHIT3
IKBKE KIAA1967
XPA XAB2
ASMTL TDO2
LGI1 ADAM22
FTCD TNKS2
ERC2 UNC13A
YWHAQ PAK6
THRB TRIP4
ATAD5 RAD9A
RAI1 LZTR1
ACAN ADAMTS5
SUPT5H C9ORF78
THRB TRIP6
THRB JMJD1C
THRB HMGN3
GPBP1L1 EWSR1
BCR YWHAB
BCR SFN
CCDC85B LRDD
WBP4 CPSF6
GADD45A CDAN1
C1QBP TRAF1
ITGB2 SYK
U2AF2 CPSF7
COPB1 COPG2
PTPRC PRKCSH
MAP1B PRKAG2

BCOR RNF2
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APEX1 ARF6
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HOXC8 SMAD4
AKT1 GSK3A
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VPS18 STX8
SUMO1 C5ORF42
RILP RAB34
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IRS1 PTPN11
CCNE1 CDKN1A
NFKBIA CALM2
A2M CYP2C18
HOXC9 PCGF2
RUNX1 PAX5
EIF2S2 UNC119
DDX10 G3BP2
TRIM21 YWHAZ
SLC4A7 SLC4A5
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LDOC1 MYC
CIAO1 GOLM1
ABL1 HCN2
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POP7 RPP40
APC RASAL3
SMAD3 WWP1
KRT31 DNPEP
XPA GPN1
STAU1 MYH1
CALM2 EWSR1
RPAP1 MAGED2
TGFB1 KLHL1

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PHC2 TMEM70
SCNN1G SCNN1D
ITPKB PSME3
PPP3R1 NFATC2
KHDRBS1 STUB1
TRIM24GTF2E1
PTPRC PPFIBP2
UBC SENP3
CCNE1 CCT4
ESR1 MED12
EFNB2 HOMER1
GEMIN4 BRF2
RRAS2 SMURF2
SRPK2 SRSF2
SOX8 NR5A1
EPHB2 KSR1
BZW1 PREX1
UBE2I ZNF777
NAP1L5 LUC7L2
RRAD CALM2
JAK1 ELP2
TOP2A CDC5L
ACTB MYO18B
CBX4 RB1
GLUD1 HIST1H2AE
PIGF PIGG
KHDRBS1 PACSIN2
USP46 PPP1R9B
RELA MST1R
SF3A2 DDX17
ENO2 HSF1
SMEK2 PPP4R2
HNRNPH3 C14ORF1
TRIP10 CREBBP
TRADD HIPK2
PSMD1 NFKB2
SHBG CLEC4G

UBE2D3 RNF126
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ANKRD11 NCOA3
RBFOX2 TOLLIP
PLCG1 AGTR1
AKR1C3 INSL6
SMAD9 SECISBP2
ETFA CDC42
STX1B VAMP2
PRKCA PRKG1
CTNNB1 BOC
SMAD9 ZNF587
COL4A5 COL4A6
DCD MDM2
FLII LGALS12
CXCL3 CXCR1
CXCL3 CXCR2
JPH3 STK24
DAND5 ESRRG
MEPCE USP15
NDC80 MIS12
SNRPF GEMIN5
EP300 CARM1
PPP1CARYR2
ADCK3 RABAC1
AKT1 CARHSP1
CYP1B1 SAE1
HSPA5 HTR3A
LHB GNAS
FURIN MST1R
HCLS1 ZBTB25
PGR TAF1B
PRSS2 BPI
UBE2D3 UBE3A
SLC2A4PDIA6
TGFB1 RHOA
PRL PPIB
ESR1 PRMT1
PLCG1 AXL

CTNNB1 PTPRJ
MYC NOL11
SS18L1 HDAC2
MRPS34 NFKBIL1
GRB10 GIGYF2
A2M CDC42
UBE2E1 RNF185
RPS27AFANCI
DLX1 SMAD4
GMNN CDT1
NAE1 UBQLN4
CDC5L DISC1
ADRBK1 SNCA
TPM3 CNN1
MAP3K11 KIF17
TBP TAF7L
NPPA NPR2
PLSCR1CCDC33
EFNB2 PDZRN3
NUP62 KPNA1
VIPR1 GNAI1
EFTUD2 GPN1
TNFRSF1B MYLK2
CTNNB1 PTPN13
SUPT5H ZBTB3
EPB41 TUFM
PQBP1 EEF1A1
TSG101 VPS37B
HIP1R CTTN
SLC2A4ACOX1
POLR3A POLR3D
EIF3D GRB2
PDGFB LRP1
RAD23A TRAF2
CTNNB1 TRAF2
GDI1 FBXO11
APOH GRB2
PPP1CASTAM
FOS PKP2
LMAN1 SNX9

ALDOATGM2
UBE2N HLTf
ARF6 PFDN2
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ABCD4 XRCC6
PANK2 DHX36
CEP76 KIAA1279
WWP2 SCNN1A
TKT IKBKE
CBL STAT5B
ATG4A MAP1LC3B
ESR1 NR1H4
CTNNB1 TNRC6B
PIN1 TRAF2
SVIP UFD1L
GTF2B NR5A1
FOS COBRA1
PPP1CARRP1
SHC1 CSF2RB
PTPN1 PTK2
HCRTR2 CD200
ATN1 SIAH1
LAMB2 MAPK14
ALPL EIF4A2
RNF8 UBE2D2
KHSRP A1CF
ENAH XPO6
CALM2 GP6
COL1A2 CD44
GPS2 PBK
PAX2 MAPK8IP1
EWSR1 ILK
TCERG1 FANCC
PPP1CAKANK1
PPP2R1B RELA
U2AF1 SRPK1
UNG RPS27A
IKBKE PCBP1
PSMB4 HLA-B
ARF6 IPO11

TLR4 TOLLIP
VAV2 RHOG
CPSF7 EWSR1
DLGAP1 GRIN2A
POLR1C CD3EAP
RIC8A UBQLN4
PAX2 BBS7
PRKAG2 PRKAB1
KCNJ4 IL16
SCO2 MAP3K3
TOLLIPMAGED1
CHMP4B VPS4A
CCDC85B MEAF6
APC GIGYF2
MAPK3 SPIB
UBE2I EP300
NRAS ARHGAP4
PHACTR2 PIK3R1
RPS9 PSPH
FN1 NFYC
TP53 PPP4C
EWSR1 CREBBP
ARF6 TRMT112
EPHA8 PIK3CG
AKT1 SMAD2
TBP NCOA6
NOTCH1 FBXW7
PPP1R1B DLGAP4
CBL ITCH
HNRNPA1 PRMT1
DFFA EFTUD2
CD3E TOP2B
HSPA2 RFWD2
ERBB3 TENC1
GC ACTA2
MED21 MED10
POLR2C TCEA1
MAP3K3 MYO6
F10 TFPI
PARP1 FOXO1

NCOA1 LGALS12
AMMECR1L IKBKG
THRA MEF2A
UBE2I ZNF646
UBE2I NUDCD3
KDM5CRNF2
EPB41L2 DRD3
AMBRA1 DDA1
GNA12 ARHGEF12
NBN RNF8
SP100 SAE1
MITF PAX6
RGS20 ABL1
PEBP1 MAP2K1
SEPT7 SEPT9
SGK1 RPF1
TIE1 TEK
BAG6 ATN1
ACTN2 SNW1
BCAR1 SH3KBP1
YWHAE ATP2B3
ANKRD28 TBK1
UBR5 GTF2E2
LRP2 MAGI1
UBTF MAD1L1
PRKCD PDP2
FANCA SPTAN1
NCAN L1CAM
TLX3 ZNF41
CAT USP53
EXT2 HYOU1
MAP3K3 CORO1C
MAP3K3 ALK
PDHA1 PDHB
TP53 KIAA0087
EWSR1 SMAD4
SRF NCOA1
KIT PLCG1
PTPN1 NTRK2
CYP2C8 MAST1

STAT3 FHL2
HSP90AA1 VCP
CATSPER1 ADAMTSL4
RASA1 PXN
E2F1 MCPH1
EFEMP2 APEX2
HAX1 MAPK14
E2F1 NDNL2
HSPA5 RELB
SNRNP200 SRRM1
TARDBP TNFRSF14
CD4 CD2
HNF1A RYR3
SOX30 BAMBI
FANCA SLC7A9
DLG1 CACNG2
NRD1 UIMC1
GARS IKBKE
MAP1A UPF2
ZNF225 RELA
MED7 ESR1
UBE2D1 ELF3
KIT INPP5D
ABI1 CYFIP2
FGFR2 STAT5B
PSME3 RNPS1
BCR YWHAH
KATNA1 CD40
ABCD3 PEX19
MAP3K3 AKAP8L
PIAS1 PIAS4
STK16 SNRK
LPHN2 SHANK2
BUB1B CDC20
TP53 MDC1
TUBG1 DISC1
DPM1 ILK
MED25 TRRAP
HDAC7 NR2E1
MEPCE PRPF31

NRG1 ERBB4
OSTF1 ADI1
PTP4A3 MCM7
PIK3CB PRKCD
TLR3 CSK
MYB RQCD1
RPS6KB2 IKBKG
PARP1 PTK2
GRB2 SNX12
SYN1 SYN2
UBE2E1 RMND5B
CSNK1D CCNA1
CDK5 WASF1
STAT6 RELA
DLG4 LRP2
MMP7 SPP1
CYLD IKBKG
UNC5A MAGED1
SBF1 PMS1
ATM SMC3
CDC37 MAP3K3
OPRM1 ARF1P1
PPP2R5A GNL3
RGS9 RGS9BP
SLC2A4FKBP10
PDGFRB PLCG1
RPS27A TH1L
SPTB SPTAN1
MYC FBXW8
AXIN1 NIN
UBE2D1 ZNFX1
BIN1 DLGAP4
UBE2H RNF186
HDAC1 HELLS
UBA1 USP14
CTNNA1 PARD3
XIAP TAB2
MAPK3 RCAN1
RAB27A RPH3A
YWHAB KLC1

ATN1 RAD54L2
TMED10 FTSJ1
SKIL FBLN1
SDCBP IL5RA
MEPCE YRDC
SREBF1KLF13
LRP8 GIPC1
KIT EPOR
RBX1 NEDD8
COMMD1 COMMD3
FGF18 FGFR4
PTK2B CD2AP
CBL UBE2L3
TERF1 POT1
MSH3 BRCA1
GAPDHACTB
KCNH1 KCNH5
DAND5 SENP6
TAF9 TAF8
CTNNB1 TGFBR1
HMGA1KAT2B
H2AFX SSRP1
CACNB4 TRO
PSMA3 SNRPF
ACTN2 CAMK2G
IFRD1 MEF2C
EML2 NEK6
TRAF2 MALT1
CSNK2A1 PAK1
TGFB1 ALAS2
MLL HDAC1
TSC2 NEK1
HEXA USP22
NPAT TRRAP
PARP1 CENPA
MAP4K4 RASA1
WAS RHOJ
SF3B5 SRRM2
ACTN2 CAMK2D
ACTN2 PKD2

UPRT PYROXD1
CHGB TUBB2A
UBE4B DNAJC7
ULK1 MAP1LC3B
MSTN WFIKKN2
PCBD1 DIP2C
STAMBPL1 ECSIT
SF3A2 HNRNPAB
ZNF8 SMAD2
ZNF8 SMAD1
MYC STAG2
MAPK1 GAB1
ELAVL3 CDC37
CNOT2 NCOR2
EGFR CTNNB1
CUL4A CUL4B
GAS7 CFBF
SNCA YWHAH
POLRMT KBTBD7
USF1 TAF7
UCHL1 TRAF6
UCHL1 MCC
RBBP9 YRDC
WWP2 DAG1
MLL SNW1
EFNA3 EPHA5
PHLPP1 PPP5C
E2F2 ARID3A
OTX2 DMBX1
TUBG1 RASSF1
CLIP1 MAPRE2
SMARCA4 TAF10
TGFB1I1 NR3C1
PRNP PSMA3
GABRR1 MAP1B
CCDC85B VPS72
NPY NPFFR2
UBE2E1 OTUB1
HDAC1 SPEN
RPIA NIF3L1

RANBP2 GOLGA2
HSPA12A MEGF10
HDAC1 SIN3A
ACTN4 UBTF
CBX6 HIST1H3J
MYL9 MYH9
YWHAB YAP1
USP1 PHLPP2
NECAB2 WDYHV1
CCDC85B EZH2
REL EP300
CCNT1 PML
WAS WNK1
HPRT1 HLA-B
CTNNB1 CDH17
BCHE COLQ
LLGL1 KBTBD7
IKBKE SF3A1
G3BP1 IKBKE
CTNNA1 MYO7A
SP100 ARX
CBL UBE2D1
HSPA1B DNAJA3
GRN HOXA1
CALM2 MYO10
UBE2I SIAH1
AURKABTRC
STIM1 MAPRE1
SOD1 BCL2
GDF11 WFIKKN1
WBP4 CHTF8
NEK6 TNPO3
APPBP2WNT5B
ATP2A1 PLN
THRB NCOA1
ABL1 NOTCH3
CBL CDKL2
MAP3K10 KIF17
CCNE1 HERC5
COL2A1 PCOLCE

IL6R JAK1
XIAP TRAF6
ISG15 ELF3
HDAC1 UHRF1
CBL LRIG1
SEC24DSEC23A
SEC24DSEC23B
LDOC1 AEBP2
SLC25A6 NDRG1
IKBKE SEC23B
TACC2 FTSJ1
MAPK1 SMAD4
HDAC1 SALL1
KLHL12 LNX1
MOBK13 MED31
AKT1 STAT1
CSNK2A1 EIF2B5
KPNB1 RUVBL2
UBE2L6 RUNX1
ABL1 TULP4
HNRNPA1 HNRNPUL2
PIK3R1 ECT2
PRPF4BRNPS1
TLR3 PIK3R1
PTRF ZNF148
KBTBD7 MAP1LC3C
RNF13 UBE2D2
USP2 RRP15
SS18L1 CREBBP
GPR37 DNAJB1
PIK3R1 PXN
GRB2 SNX7
SQSTM1 TRAF6
ADRBK1 PTCH1
HAP1 TAF1D
RAB3A RABAC1
CUL3 COPS3
CDC45 MCM3
SMAD1 MGA
FGFR1 CTNNB1

ERH BIN3
SYN3 SYN2
YWHAG SLC25A3
RPA2 INSL6
CCND3 CASP2
BCAR3 HADHA
ATXN3 UBQLN1
STXBP1 TUBA4A
KAT2B IRF7
SSB PMVK
OAZ1 OAZ3
TGFB1 RAB6B
ID3 ZNF626
SVIP GOLGA1
SCN2A ARHGEF10L
NOS2 ACTB
PABPC4 TNFRSF10D
DAB2 SMAD2
HLTF RAD18
E2F1 CWC27
XRCC6 HTT
IRF1 HMGA1
INSL6 HSPBP1
TCEA2 CAMKV
DRD2 CAPS
KPNB1 RUVBL1
ITGA4 PRKACA
SNRNP70 SMAD5
HNRNPA2B1 RBM3
CD19 MAPK1
HNRNPH1 NCBP1
AIRE PLCG1
TRIM21 USP4
PDGFB PDAP1
NBN CCNE1
CXXC1 SETD1B
PSMB4 HLA-C
RFC4 UIMC1
CORO1A NCF4
UBL4A FAF2

SART3 USP15
HSD17B11 BRF2
ELF3 EP300
PPARG NCOA3
CCR5 GNAI1
GTF2F2 POLR2B
TXN HLA-B
GIT1 PCLO
MYC EPPK1
ALDH16A1 PAAF1
DNM1 PIN4
KPNA4 RECQL
FGA FGG
TFAP2A SUMO4
UCHL1 RPS27A
SMAD7 HEYL
GABRB1 AKAP5
SRSF1 U2AF1
TNF UBE2N
PSEN1 EFNB2
GOLM1 NRSN2
XRCC6 ATXN3
IL1B MMP2
GABARAP HADHA
FOS PFDN5
GBAS SQSTM1
LIFR CTF1
CNGB1 SRRM1
SPAG5 EIF4ENIF1
BHMT BBS2
ARPC3 LGALS4
ZWINT DSN1
HOXC4 XRCC6
DYNC1H1 SMAD2
UBE2I HIPK1
NFYC TAF11
CCR1 STAT1
ATN1 RBPMS
SEC13 WDR44
ATP5J2 PVRL2

AKR1B1 TRAF6
SNCG FUBP1
TRIM24 ESR2
HSPA4L HLA-B
SYNCRIP IKBKE
MYH11 MAPKAPK5
MED21 PCBD2
IGF1R GNB2L1
S100A10 CDK16
TCERG1 HNRNPM
NEFL RAN
SS18L1 TAF9B
MED14 MED9
SUMO2 BAZ1B
TBC1D15 GABARAPL1
SCG5 UBQLN4
FEN1 NCAPG
ACTB SMARCC2
SRRM1 SNRNP40
PSMD4 PSMD13
HSPA2 MAP3K3
HNRNPA1 DDX5
SET IKBKG
PCBD1 MIS18BP1
SNRPC GIGYF2
FOXG1 SMAD3
TTR SETDB1
GPAA1 PIGK
RAB3A RPH3AL
CKLF CREBBP
GSK3A VTA1
HAUS6 HAUS8
RAD1 ATR
ID2 ELSPBP1
KIF2A KLC2
TNF TRAF2
MPDZ ABCA1
COIL ATXN1
TUBB4 INSM1
GOPC GRID1

C1ORF174 KAT5
CCDC120 MDFI
PIAS2 UBE2I
NCOR1 HIST1H3J
RAF1 EFEMP1
TRPC1 TRPC3
MAP3K7 PEBP1
S1PR4 GNA13
TGFB1 SNTG1
AR PXN
SLC25A12 PNKP
ACVR1 NUA2
MAPK8 CASP8
NDC80 NUF2
HAX1 MAP3K3
COL7A1 SHKBP1
MPP3 TRIM41
RARB ZNF423
POU2F1FDXR
UBE2D3 DTX3L
C1ORF94 UBQLN4
KDM5BDBNL
XIAP MAP3K2
RARA HNRNPU
NRIP1 PPARA
ACVR1 RAB33B
MYH10 MAP3K3
SP100 ARID3A
MBP STK39
ETS1 SET
ATP5F1IKBKE
RBM14 QKI
PIGA PIGQ
MYC HEATR1
ABL1 APOL5
KDM1AKIAA0182
NLRP2 CARD8
MAP3K3 BAG5
TK2 COPS6
GNAI2 C5AR1

BAD EWSR1
GRB2 CKAP5
JAK2 SH2B1
KRT1 FANCC
TGFBRI CAV1
BMF MYO5A
SHBG RMND5B
CTSB DMWD
PSMA3 RERE
UBE3A BAK1
SPTLC1ORMDL3
SKIV2L2 DIS3
MEPCE CAND1
FAS CASP8
ILF3 TRIP6
CREB1 SOX9
SOCS6 TGFBRI
CUL2 CAND1
PTAFR ARRB2
GATA3 LMO1
ADCY5 PRKCZ
YWHAZ PARD6A
SLC6A9STX1A
ABL1 SORBS1
CPE UTP14A
RBBP5 CHD8
DAPK1 BECN1
CCDC85B NIF3L1
STX4 VAMP8
MMP1 CCL13
TAF7 TAF9
PTK2 GPRIN1
PRKCA CKLF
DPH1 RBM8A
NUDT18 CUTC
CRK MAP4K1
EXOC3 MYC
BCAR3 ACTR2
H2AFX ATM
CLIP1 MTOR

ACTN2 PLEKHA5
AIMP2 STUB1
GATA4 ZBTB3
PPP1CAAKAP1
ELF2 ZBTB32
RET DOK3
RPS27A TRIB3
TRIM15 TAF9B
GEMIN4 GEMIN5
RASA1 ARHGAP5
LMNB1 LBR
GAK AP1M2
FYN GRB2
ABI2 VPS37C
XIAP UBE2D4
PPM1E DISC1
VCAN CCL20
SHMT2 DDA1
DLG1 CRIPT
BCAS2 ESR2
UBE2D3 BRIX1
ADAM10 EFNA1
CHEK2 PPP2R2A
YWHAZ AKT1S1
TERF1 SALL1
STAG2 PDS5B
SYNCRIP HNRNPD
SMAD9 HBM
TBP MKX
ATF7IP DMTF1
STAU1 HNRNPU
PSEN1 DAG1
GOT2 ATG5
RNF128 OTUB1
PSMD4 STUB1
ARPC2 SNRNP25
P4HB ELF3
MARCKS CALM2
MEF2D MAPK14
KBTBD10 NRAP

CD3E TRAT1
FDX1 CYCS
AURKAIKBKG
RIPK2 NGFR
ARR3 RCOR2
PSEN1 DSG2
PRKAR2A AKAP6
SF3A1 SMURF1
ONECUT2 KDM5B
BCAP31 CASP8
TRH ARRB2
SMNDC1 ASXL2
PPP2R1A CTNNBIP1
RGS12 BCR
GATA3 RPS27A
CDC25B FHL3
CNO PLDN
MLH1 CKAP4
HIST1H2BB NFKB2
COPS6 CDH10
PIK3R2 EGF
EGFR MOBKL3
TSPAN4 ITGB1
SKIL ZMYM5
KHSRP EXOSC3
MEN1 TCF4
ETS1 RUNX1
CSF3 CSF3R
TNK2 HSH2D
SPAG9 EIF4A2
GTF2E2GTF2A1
CCND2 CDKN1B
PARP1 XRCC1
YWHAZ KCNK9
CCT2 CTTNBP2
FBXO11 COPS5
CD8B ST3GAL4
FLNA TAB2
PFDN1 HAP1
TICAM1 RNF216

FGA FGB
DAND5 ZNF225
PTPN1 COLEC11
PRKD3 RAE1
USO1 CASP3
SUMO2 RNF2
TJP3 GJC1
CDC34 CUL1
STAT3 STAT4
TAF7 TAF12
EIF3I EXOSC6
HGS SUN2
MME EDN2
FEZ1 CIB1
XPO1 E2F5
UBE2K RNF32
HSPA1B DNAJB1
FUS LYAR
KDM5BRCOR1
EMD GMCL1
UBC POLQ
TGFB1 TRAF6
USP8 OTUB1
ARIH2 GF11
SET SETBP1
USP9Y MAPT
ZCCHC7 SNIP1
H2AFX CHD1L
CDC42 MRPS28
FAM40A STRN4
TXNL1 SH3BP4
MYC METTL13
CALR B2M
RPS27A MED15
CREB1 RFX3
RAF1 PEX5L
ZNF24 EEF1A1
TAF10 MCM6
RBM25 SF3A2
GDI2 RAB8A

CEACAM5 PTCHD2
TP53BP1 RAD18
FXR2 KCTD4
RET MAPK8
MEPCE THOC4
APP BACE1
PIN1 RBPMS
H2AFX XPC
FANCC FANCD2
CRK DLX4
CTNNB1 FOXO1
PRKCA SDC4
ASNA1 UBL4A
GDI2 RAB2A
H3F3B TLE2
TRIM39UBE2D4
AKT2 TRIB3
IKBKE TOMM34
FANCA RPA1
SEMA6A ITSN2
UNC119 MPHOSPH6
SETD5 TRAF2
H2AFX PAPP
RPS27A WRNIP1
RNPS1 SF3A2
HNRNPA2B1 ZMAT3
PFN2 PTPRS
MEOX2KDM5B
CDC7 DBF4
MED25 MED8
CDKN1A SLC25A11
TTI1 HSPA4
FADD CASP8AP2
NR4A2 PIAS4
MEN1 RPA2
LMNB1 MELK
STAMPB VPS24
ATRX KIAA1377
ARHGDI1 RHOG
NDUFA10 DEPDC1B

PLCG1 DDIT4
SART3 LSM4
APC RP1
NCK1 SHANK2
UBE2I SLX4
PXN CLTC
FAF2 VCPIP1
MEN1 ESR1
POLR2H GTF2B
ROCK1 TSG101
SRC CYP4F2
SCYL2 GTF3A
AR NCOR2
LYN GAB2
MEGF6 GF11B
U2AF2 BEND7
BLK CTR9
TF TUBB4
DHX9 SSRP1
S100A8 DMWD
SF3B1 SF3B3
STAMPB RNF11
SRC CNTNAP1
GNAI1 NUMA1
CHEK1 CSNK2A1
BEST1 PPP2CA
TSC22D3 PLEKHF2
CHRM3 GPRASP1
SRC DLG4
PCMT1 GABARAPL2
IKBKB STAP2
HMMR MAPK3
GNA11 KDR
CDK2 NEDD8
GCN1L1 IKBKG
MAP1LC3B UPF2
GNAI3 HTR1A
AKT1 CASP3
PTBP2 PCBP3
MEN1 TCF3

TPR HTT
SRC GTF2I
RARA SUMO1
UBE2N IKBKE
ITGA5 TNC
TIAM1 MAPK8IP1
SPTBN1 CDC5L
SRC RPP38
HDAC1 KCTD11
CD2BP2 SNRNP40
ADD1 ROCK1
MAP1A MAP1LC3B
TERT SRC
DYNC1H1 TSC22D1
NR2C1 PML
TUBA3C SIAH1
VARS IKBKG
HDAC4 HIST1H4I
KIF20A AURKB
CXCR1 CXCL6
NR4A2 BAZ1B
PRKACA ITPR1
ALX1 CREBBP
SREBF2FHL3
ECHS1 VHL
RGL2 KAT5
ILF2 SREK1
MAP2K6 PLCB2
AIRE GEMIN5
CRADDFAM190B
TUBB CRIPT
MAP3K7 BCL10
A2M CYP2C8
ERBB4 ANKS1A
KRT85 TWF2
UBE2I ZMYM5
TRPC1 PKD2
GIGYF2DDX20
KIAA1279 C21ORF77
ESR1 NRIP1

MYBPC3 TTN
MYC SMARCAD1
MEPCE LUC7L2
SOS2 SNX18
AKT1 ARHGAP32
GRAP2 MAP4K1
TEK GRB7
GSN PIK3CA
TERT XRCC6
CD2BP2 CMBL
APC MYO6
KPNA1 SLX4
PIK3R1 SUV39H2
IL6 SH3GL2
NR4A2 ANP32E
MYC CDKN1B
RGS2 ARFGAP1
PJA2 MAGED1
PRKACA THOP1
NCK1 GAB2
TEK GRB14
OGT BTRC
AKT1 EZH2
ADAM15 SH3RF1
COIL KLHL8
MRAS RAF1
NEB TMOD1
ITPKA CAMK2B
GCGR GNAS
PAX3 DAXX
ITGB5 GNB2L1
ATF2 ATF7
RHOA PKN2
RHOA PKN1
GSTM4 UNC119
PSMB3 FTSJ1
RPS27AUIMC1
RARA CNOT1
CREB3L2 RND1
MEPCE LSM2

DEDD LTV1
USP22 CNOT1
GNB2L1 HABP4
CSTF2TUBQLN4
SIKE1 TRAF3IP3
HDAC1 GCM1
SNW1 SND1
STK16 MKKS
MDM2 RBBP6
ITGA1 BIN1
PRKCG PA2G4
MAX GABBR1
CLTC TNK2
EGFR ALCAM
ZFP64 BEGAIN
KALRN PAM
UBE2I CTBP1
HDAC4 GNB1
DOCK1 ELMO2
DNAJA1 TAB1
CFH ADM
GABRA3 UBQLN1
USP8 CHMP6
ADRB2 KCNJ3
SOCS1 PDGFRB
VPS45 SNTG1
ARHGEF7 CD244
ADRB2 KCNJ5
KIF5B KIF5A
RET IKBKG
DCAF7 DYRK2
ITGAM PRTN3
FXR2 RBBP8
SLC7A9ZHX1
PTPN11 GAB1
FBXW11 USP37
SNCG HNF4A
SORBS3 SAFB2
MAGEA11 BEX2
MMS19 PHLDA3

SOCS1 CSF1
PML DAXX
TTR AGER
KDM5CUBE2D1
MCC CLTC
EGFR PTK6
UBE2I IKZF3
AR KLK2
PHB2 HDAC5
UBE2E1 CHFR
CBL LTK
CDC42EP1 CDC42
RB1 PABPN1
SNRPE LSM4
RALA LRPAP1
ACP1 SFMBT1
CREBBP ONECUT1
HSPA1B PGAM5
NFYC RPS6KA1
USP30 QKI
ARL3 TUBA1A
SPAG9 MAX
AGAP2 EPB41L1
MED21 MED19
GRIA4 EPB41L1
EDNRB GNA11
EXOSC10 FOXRED1
SFPQ TSC1
MTA2 DPEP3
PTPN11 SLAMF1
ATXN1 CDK6
ETV3 DDX20
CASP6 SATB1
MKI67 CBX1
NBR1 CIB1
GDI1 RABAC1
NR2F1 MAP6
MYCN MAX
MTPN TRAF6
CEP57 UIMC1

EHD2 AP1M2
EIF3G AIFM1
HDAC4 HDAC5
ZNF225 SREBF2
RPA2 STAT3
KRT16 TANK
PYGM TRIM63
CTNNB1 GLIS2
IGF1R YWHAZ
CAPN1 ACTC1
HCLS1 ACTR2
MCM6 GINS3
TNFRSF1B DDOST
TRIM23 TRIM28
RUNX2 HDAC6
SF3A2 DDX42
SNRPE LSM5
CREBBP DPEP2
MED21 MED28
MED24 SMAD3
KRT15 RCOR3
GTF2F2 ZNF638
CEACAM1 PTPN11
RHOA DPYSL2
IPO13 MAGOH
HCLS1 ACTR3
PRPF40A ZNF341
CCL22 CCL19
TUBB PLK1
SHC1 GRB2
FOXRED2 DNAJC10
NLGN3 NRXN1
SUMO3 HSF2
PTK2 ASAP1
SKP1 FBXL2
TIMP3 MMP13
RARB RXRG
GRIA4 CAMK2A
GATA3 LMO2
PDGFRA STAT5B

CALCA ATP2B4
HSP90AB1 FAM162A
AVP AVPR1B
REL TBK1
LXN CPA3
GATAD2B FOXP1
KCNA2 KCNA1
FGFR3 STAT1
TUBB4 RELB
PAFAH1B2 TRAF6
ARF6 ASAP3
RGS2 NIPSNAP1
CENPA DDB1
FYN HTR6
SNCA COL25A1
FYB BCAR1
CCND3 RBX1
IRS1 CSNK2B
XIAP NOD1
PMPCB PMPCA
IGF2R PLAUR
DLG1 MARCH2
MAP3K7 CCDC88B
SHBG ACPP
PAN2 PFDN2
TSG101 DMAP1
MAP4K3 SORBS1
RIPK2 SOD2
DTNB KIF5B
XRCC5 TERF2
DNAJB6 HDAC6
SUMO2 SMCHD1
CREBBP NLK
NLGN2 INADL
SELE TLN1
PRNP PLK3
RING1 UBE2E2
ZNF823 PAK1
SGTA EFEMP2
RBMX SREK1

MLLT3 CBX8
MLLT6 UBQLN4
TOX4 CREB1
VARS TRAF6
CCT4 RFWD2
GTF2E2SND1
MUTEDPLDN
NFASC NRCAM
CCDC85B FAM50B
S100A11 ACTB
SRRM1 SF3B2
CEACAM1 CEACAM6
TNC CNTN1
CEACAM1 CEACAM21
ERBB3 CHN2
LYST CELF4
NANOS3 MAST1
SMAD7 ASH1L
CREBBP PPARGC1A
UBE2I CASP8AP2
PLRG1 USP42
FANCI MAGED1
IL4R JAK3
PF4 PROC
EWSR1 NDRG1
TNF FBXW11
VEGFA TNXB
U2AF2 THAP1
SNAI1 COPS2
RNF167 CCDC59
MEN1 RPRM
NR4A1 ANKIB1
HUWE1 RNF11
HDAC4 ZNF148
ARF6 IMMT
SMAD3 RNF111
KIF1B ARHGAP1
PAFAH1B1 DISC1
VIM MAP3K3
MRAS PLXNB1

BUB3 PARP2
ERBB3 VAV2
NR3C1 SUMO4
NPC1 LRP6
MAPK10 GTF3C1
BCL3 RPS27A
FLII LRRFIP2
VHL MYCBPAP
CBL EPHA2
EIF4E PAK2
C10ORF12 EHMT2
MARS HNRNPUL1
LMNA PCBP1
E2F1 TOPBP1
MTMR9EWSR1
SPDEF AR
CFH SELL
RNASEH2A FOSB
SEC14L3 HLA-C
NCK1 RIMS1
MTOR PLD2
PRKCI IRAK1
RAF1 RALGDS
SMARCA5 PRKACA
TOPBP1 RAD9A
CD40 RFC5
RANBP9 MPHOSPH8
AR LGALS12
CCND3 EIF3K
GTF2I TOPORS
IKBKB MAP3K11
NOTCH1 GSK3B
SMARCC2 SMARCD1
TUBG1 TUBGCP3
PRKCA THOC5
INSIG1 FAF2
VAV1 CRK
PLG LAMA3
CFL1 LIMK2
THRA NCOA6

PDPK1 PTPRB
CCDC85B AGGF1
GMNN SMARCA4
STIP1 USP49
ATM HUWE1
CEBPB CREBBP
NRIP1 CTBP1
PTBP1 PCBP3
THRA FUS
CDC34 ROCK1
MIF4GD DDX19A
CALCOCO2 KIAA1267
TJP1 TRPC4
SOD2 HSP90B1
SCNN1A HECW1
TBL1X CTNNB1
BCR CFTR
ACTA1 TNNI3K
ARPC3 CETP
PDPK1 PTPRG
TLE1 ZFP64
UBE2I DZIP3
IKBKB TBK1
CDK4 CDKN1A
RRM1 ATG5
ALX4 LEF1
BRD1 ZNF512B
GNAO1 CCR5
CDH1 PVR
FYN DOK4
APEH UBA5
ALOX12B LMNA
PDPK1 RPS6KB1
CASP2 CASP8
UBC RNF11
RHOA ARHGAP32
ATOX1 ATP7A
CAMK2A GIT1
ODF1 ODF2
POLD1 GABARAPL2

ITGB5 EPS8
MTPN FTSJ1
CBL PTPN6
CBL SHC1
COL7A1 ZC3H7A
AIP ARNT
NR1D2 RGN
TOPBP1 ZBTB17
DNAJC7 DISC1
RPF1 GRINL1A
CALR PAK2
NEFL VIM
CDK2 CDC25A
CDK2 CDC25B
UBC FIS1
RPS15AIKBKG
SLC9A3R1 PTEN
ANXA1 SRC
KPNA1 PRPF31
CFL1 LIMK1
PRICKLE3 SRC
SVIL NEB
PRLR VAV2
CSNK2A1 SPIB
RBM39 CTNBL1
RBM10 UBQLN4
EZR ADRA1B
IKBKB CDC37
TRIM21 SKP1
ZBTB16COQ6
PSMD7 USP20
CDK2 WEE1
STX2 VAMP2
A2M ECSIT
UBC MAP3K2
TGFB1 TSSK4
ABL1 PRX
CBLB ASAP1
TSHR JAK1
ZBTB16DLST

UBE2N TRIM25
PAFAH1B2 PRKAB1
UBE2I GMEB2
ATP5A1 RELA
SNAP25CCDC53
PGR TDG
AIRE SRSF3
PGR SNW1
HNRNPL SRRM2
INS NOV
HNRNPU TANK
PSME3 WDR25
APOA1 TOMM20
BMPR1B CDK14
PHOX2A CREBBP
MED8 MED31
ADRB1 DLG4
KCNA2 CNTNAP2
CTTN ASAP1
RRM1 PRKAB1
GOT2 ARF6
MYOG CARM1
UBE2E2 RNF11
INSIG1 HMGCR
MAPK9 CREBBP
ENO1 SUMO4
GJA5 C20ORF4
MAX MGA
THRB NCOA2
IKBKE TSN
PMVK MLF2
PITPNAHSDL1
NCOA7 MAP1LC3C
RPAP3 RUVBL2
FBL TBC1D17
PRKCI YWHAZ
YKT6 GOSR1
GSK3B MAP2K5
PPP2R1B PARK7
PMF1 COPS6

MED14 ESR2
CEP250 PLEKHA5
PSMD4 UBQLN1
SHBG EEF1A1
DNAJA1 TRADD
RGS6 DMAP1
TXN GFER
SKIV2L2 RAPGEF2
BRCA1 BRAP
NFATC1 EP300
ENO2 ST3GAL2
MAGEB2 RPL22
HLA-G B2M
PRPF40A YWHAG
ARNT AHRR
HNRNPA2B1 TTF2
C5ORF22 WBP11
CAT PEX5
GIPC1 NUP93
SYP SIAH1
NFYC CHD8
MCM4 HIST1H4I
WBSCR22 PRKAB1
MYO9B MOBKL3
CDK2 TSC22D1
HSPA5 TMEM132A
CDC45 ORC6
SMAD3 FLI1
MCC VCP
CCNB1 BRCA1
IKBKE MAPRE1
PRPF40A HNRNPK
SUMO1 STAB2
POLB NEIL1
COL1A1 FN1
SKP1 FBXO5
SKP1 FBXO4
SKP1 FBXW2
SKP1 FBXL3
GSK3B EIF2B5

TAF1 MSX1
KRT15 CALCOCO1
RASD2 SMURF1
ITGB4 COL17A1
NCOR1 ESR2
CD63 PTGFRN
CELF2 A1CF
COL2A1 MMP1
LMAN1 ERP44
TAF7 CTF1
CBFA2T3 ZBTB47
IRF5 TBK1
HGS IL2RB
AP2A1 TOE1
UBR5 TOPBP1
NR3C1 SMARCD1
CDK2 IKBKG
CLPX TSC22D1
DDX3X TRAF6
COPS4 MBIP
CDK2 CCND2
CBL MST1R
DDX21 SRRM2
TPD52L2 WNK1
CBL YWHAH
CTTNBP2 CTTNBP2NL
GPS2 CCDC99
FOXH1 PIK3R1
ULK2 SYNGAP1
PLG MEP1A
PTMS EP300
HSPA4 DNMBP
SUPT3H SAP130
TSC2 PLK1
RNPS1 CPSF2
TSC2 DAPK1
HSPA1B HSPBP1
NFKBIA UBE2D3
CUL1 TBK1
BMX BTK

EIF4B ALK
TLR4 EGFR
NLGN1 NRXN2
SRC RASA1
KRT15 ABI3
IKZF2 IKZF3
SIAH2 ATN1
LYN MAPK3
CALB1 TRPV5
MEPCE RUVBL2
PRKACA GMFB
NCOR1 CREBBP
LCK FASLG
PRKAB2 PRKAG1
XRCC3 RAD51
ARHGEF15 C11ORF49
LMO2 SSBP2
MGRN1 TSG101
MMP7 TFPI
AIFM1 HLA-B
DAZAP2 DAZL
RIPK1 CASP10
HSPD1 HNRNPH1
CTNNB1 SATB1
SNRPD3 STXBP2
TRIP10 MCEE
PLCG1 TUB
CD3EAP SUPT16H
ABL1 RASA1
FXR2 RBBP8
MYL6 IKBKG
COL5A1 COL5A3
UFD1L NPLOC4
TCERG1 WIPF2
AR RAD54L2
EGFR EPS15
NEDD8 SIRT1
COPB1 SUN2
MAP3K8 EEF1A2
ACTG1 MYO1A

MGRN1 UBE2Q2
USP12 RAD51AP1
PRKACA GNMT
LRPPRC BRE
BCL2L11 DYNLL1
AP3D1 VPS41
PAK2 SH3GL2
SMARCE1 ITCH
PSMC4 TRIP6
MEPCE RUVBL1
TRIM37 APEX2
CP PLG
UBE2N OTUB1
ENG ACVRL1
EIF2B3 GOLM1
GDF9 CRELD1
FEZ1 BARD1
LIPH LRP1
MAP2K2 RASSF8
ZFPM1 GIPC1
SUV39H1 BCL11B
CALM2 PHKG1
DMD DAG1
HRG THBS1
UBE2G2 RNF26
IKBKB TUBB
TGFB1 STRAP
HCFC1 ZBTB17
ABL1 TSKS
CREB1 HNF1B
FYN PXN
MPG RAD23A
ABL1 ZDHHC16
TP53 DAPK1
RAB27A SYTL5
SNAI2 HDAC2
TP53 PLK1
DAND5 YY1
VIM TNFRSF1B
TH1L KIAA1967

SF3B1 SF3B4
SF3B1 SF3A2
FASLG MYO15A
HIST1H3J L3MBTL1
YTHDC2 USP42
MBD6 DUSP12
CD4 CD5
PRKRA RPL36
MPG RAD23B
RAB5A APPL2
ERBB4 DLG3
ZBTB17TOPBP1
CTNNA1 VEZT
NOP2 MAPK6
ANAPC1 ANAPC11
TGFBR1 RNF146
RNPS1 SF3B3
MAST2 STK36
YY1 INO80
CCNB1 PBK
PTPRS KAT5
HIST1H3J LGALS12
MOBKL3 STRN4
MAP3K7 MAP4K4
SAG ADRA1B
RPL36AL DDX56
ABL1 DDX41
DIO2 USP20
ATXN1 TRAF2
SOD2 SUMO1
EGFR CAV1
ATF2 CEBPB
CKM RPS27A
EIF2AK2 DBNL
MEPCE C14ORF166
SMAD3 E2F5
GABARAP ATG16L1
MED10 MED19
IL10RB IL22
FGFR1 FGF5

AMBP CTSB
ABL1 DKKL1
LIN7C BAIAP2
TRIM59ESR2
KIT GRB2
FN1 NFYA
SMCR7 UBQLN1
ZNF165 KRTAP4-12
PHLPP2SNX27
GSK3B HSD17B4
NCAPG2 PHLDA3
SMAD9 ASB2
APC PACSIN2
KIT RPS27A
ADAM17 MAD2L1
RAB5C OSGEP
DNMT1 PTK2
CREB1 SUZ12
EGFR IRS1
HSPA1B BAG6
NUP153USP11
IRS1 RAD51
EIF3F FBXO32
CD40 SLC39A7
RPL37 DDX56
MEF2C C1QBP
PIK3R1 RAPGEF1
UBE2L3 CUL9
ACTN2 GRIN2B
ELN LYZ
GLUL RBBP6
TRAF5 TNFRSF11A
RXRA TAF11
DRD3 EPB41L1
RNPS1 ARMC8
SDHB SPNS1
NUDT18 RWDD1
GNB4 GNG13
ITSN1 SNX5
CYBA RAC1

PRKD3 GSK3A
CDK2 FEN1
WNK1 MYO5C
GRB2 SHANK2
POP4 BVES
TP73 SPSB1
HIST1H3J TAF1B
WDR5 WDR12
ARF6 KIAA0368
EFEMP2 FAM107A
SRP72 SRP68
ATF2 HDAC4
CTTN SHANK2
UNC119 PHF10
EP300 MTF1
PRKCG PARD6B
KIF5C HES4
ARAF YWHAG
MAX MPHOSPH8
EGFR WAS
S100A1 S100P
RAB4A RAB7A
SMAD2 PAXIP1
RGL2 KAT5
ACP5 MAPK9
MAGEA11 SNX7
SMAD3 RUNX1
TOM1L1 COPS7A
WDR5 WDR61
COPS6 KCTD3
STAT5A CRK
STAT5A CRKL
NCK1 CBL
HMGN4EWSR1
MAPK1 GATA4
PRKRA COPS6
MAPK1 NKX2-1
NFYC RASSF8
PLG AMOT
DNNTIP2 ESR2

SRF RARG
RPL7 PHC2
HMOX2INSL6
FH PRKAB1
SNRPD2 GRB2
IKBKB EPRS
EP300 MEF2D
PPP2CARBL2
ECD EWSR1
ZFYVE9 FAM46A
MIS12 SPC25
FAM127A ABL1
SUMO2 RCOR1
SETDB1 SLC38A3
PARK7 DAXX
MTA2 TP53
FASLG PACSIN3
CLEC2L EXT2
VEGFA CSDA
DNAJB6 KRT18
KRT5 PKP2
MSX2 SPEN
CRK MEPE
MAP3K8 RIPK1
KLF9 SIN3A
PPP1CACDC6
MDC1 HDAC10
NCOA1 NCOA3
TCF3 NEDD9
CYB561D2 UNC119
LYN PRKCD
LMO2 TAL2
ALB RYR2
KRT15 EXOC8
FAS FAIM2
BCOR CPNE1
MAX MNT
EP300 CHD4
SNX3 SCNN1A
MEPCE DDX42

APC PROCR
YWHAZ DISC1
ERCC5 EWSR1
USP8 USP22
NRIP1 TRAF2
UBE2D2 RNF10
TRAPPC2 CLIC2
FANCA LIPG
ATG5 RCC2
CDC45 CIAO1
ABL1 DAND5
PTN LAMA4
GRB2 NEU3
CUL1 FBXW11
THRA CREBBP
MBP TRPM7
ACTA1 CORO2B
EZR RDX
NUMB PRKCE
NOTCH1 PSEN1
GNAS SMAD2
TAF6 RELA
CDK1 POLA1
LCK DAPP1
SRRM1 SRPK1
GCN1L1 WIPI2
EZR NF2
HNRNPAB UBE2O
ZNF205 TRAF2
GRB2 SRRM2
ITGB7 GNB2L1
MATR3 NFKB2
TACC1 TDRD7
FN1 CD79A
SMARCA2 SMARCE1
PTAFR ARR3
BMI1 USP7
PLK1 GORASP1
NR2F6 ATP5I
RUNX2 SMURF1

ADSS IKBKE
GRB2 LIMCH1
CTTN CTNND2
CUL4B DDB2
AR TBP
PPARGC1B ZBTB9
GFI1B CENPJ
POLR2G TAF15
GSK3B ILK
RPS27ANEDD4L
GRB2 RIMS2
RPS27AUHRF2
CTSL1 SERPINB13
FANCI FAN1
SMAD5 SOX7
EZR CTNNB1
TRIP13 MAD2L2
USP47 BTRC
CALR PDIA2
FANCA SNX5
CUL4B WDR5B
HSP90AA1 PPID
GNA12 RASA2
SUMO4 CCT7
NBR1 TTN
TRIM3 UBE2U
THRA HDAC2
HLA-B SHMT2
RPS3 TRADD
GRB2 DNM3
PPM1F FEM1A
TOE1 SH3GL3
ACTG1 PTPRO
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WDR5 CUL4B
SYT1 STX1A
RPS27ARFWD2
H2AFX ATR
BAIAP2WASF2
DDX24 MKS1

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COPS6 WIPI2
DUSP1 MAPK12
VHL OSR1
AR HNF4A
PTPRE KCNB1
SUMO2 HDAC9
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DLEU1 ARL8B
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SKP1 FBXO2
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OPRM1 DNAJB4
HNRNPA1 CAPN2
HR HDAC5
RBMX SF3A2
AR PIAS3
AR IARS
CASKIN2 PACSIN1
GTF2I SUZ12
VIM LMNB1
HNRNPA1 MAP3K14
IGF2 IGFBP1
CDC34 SKP2
STAT1 DCTN1
DNM1L VIM
NOTCH1 NUMB
ETS1 FAM171A1
ACTA1 MACF1
IL4 IL13RA1
BMPR1B DCAF6
ACTN4 RIPK3
FLNC TRIM63
YWHAG CLTC
ARL6 BBIP1
PSMD2 UBA5
SNX2 MET
HIST2H2BE PARP10
HGS TJP2

G6PD SUMO4
XPO1 NUP62
WBP4 CHERP
STAT3 HES1
TDG DNMT3B
YWHAZ HDAC5
ACTN4 NANOS3
SOD2 SMARCA2
FANCI GSTK1
HSPA1B SLC5A1
PSMC3 ATXN1
ATN1 JAG2
SMAD9 SMG1
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EIF3F EIF3G
CRMP1 HDHD2
EXTL3 PLEKHA5
DDX3X RIPK3
MYL6 RIPK3
MARCKS TRAF6
RAC1 ACTA1
WDR5 CUL4A
RNF126 TRAF6
NR3C1 PTMS
RB1 PPIA
UBE2K RBCK1
DCC PTK2B
PRKCD DNAJC7
LOR EVPL
EIF3A IKBKE
ABL1 CASP9
HNRNPH3 SRRM2
LONRF2 OTUD5
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CD9 ADAM2
RNF19A SNCAIP
ITGB4 DST
PSMD3 PSMD6
CASP7 RNF7
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NIF3L1 RABAC1
PCBD1 GTF3C3
API5 ACIN1
PSMF1 RBFOX1
VDAC1 DYNLT1
EGLN2 MOBKL3
AIRE CHD6
RPA1 TIPIN
HSPA9 RIPK1
GABARAPL2 TBC1D15
GCG CTSL1
MDC1 ANAPC5
PDLIM1 ACTN4
BCL2L11 GNB2L1
QDPR GRB2
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FYN ISG20L2
SKP1 FBXL7
MDC1 HDAC8
GCH1 RAB26
TAF10 SMARCC1
MAPK8IP2 LRP8
BUB1B APC
ARF6 C6ORF211
ASAP2 SH3KBP1
PRKACA MEF2D
FOS GATA4
PLK1 DNAJB9
VAPB USP20
GSK3A NBR1
CCDC91 EWSR1
PARP1 LRIG3
RIPK2 GAPDH
SNAPIN HAP1
TULP2 EWSR1
MYOCD MAL
SUMO1 EPAS1
PRKCE AFAP1

CTLA4 PPP2R5A
MDM2 PJA1
TP53 TP53RK
SETDB1 SMPD3
UBE2H RNF146
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NFKB1 KIAA1967
ITGB1 NCKIPSD
DISC1 RABGAP1
SART3 LSM2
DSPP YWHAZ
KCNJ5 KCNJ3
PTPN6 PDCD1
TNFAIP3 KIF11
FER TMF1
HDAC4 YWHAH
ADAMTSL4 SALL2
KPNB1 TRADD
CRK SPEN
PIGR CD79A
CDC42 MAP3K10
COL4A5 HABP2
SLC39A11 C10ORF35
ZNHIT1 TP53
KRT18 MCC
VIM SLC25A6
GRB2 SH2B3
CDC5L CDT1
TIMM50 PHB2
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STAU1 PABPN1
SKP1 FBXO3
USF1 TAF6
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TK2 PTPRK
BAG6 UBL7
GSTM3 ATG5
CALM2 MYO6

FRS3 PRKCI
KIAA0556 TBC1D4
MYOD1CDC34
IL10RB IL28A
MYO1F EWSR1
MMP7 HAPLN1
NCOR1 CORO2A
ASGR1 ASGR2
FN1 SMAD4
UBE2D2 NEDD8
YWHAQ MPRIP
BAK1 SRRM2
PTGS2 PSMC5
CXCL2 DPP4
ZSCAN1 TRIM31
PEX2 TLE1
SMAD9 TERF1
TOP1 PMS1
KRT37 ELF3
MNAT1 EEF1A1
GCN1L1 TRAF6
HSPA1L TRAF1
ZNF263 EFEMP2
YWHAZ BAIAP2
GRB2 GAB2
RPF1 SCN5A
CD59 SLC6A8
VTI1A VAMP8
NOP56 MYC
DAB2 MIB1
RBM45 USP21
C8ORF48 MDFI
VCAN CXCR3
DLG4 GLS2
APP HOMER2
NAE1 UIMC1
SYNJ2BP ACTB
VPS36 TSG101
SKIL CHPF
CHEK1 XRCC6

STAT1 UBE2F
CNBP BRIX1
PSMC3 TXNRD2
TAF10 ARHGEF2
CFTR STUB1
TUBB4 NFKB1
HLA-G COPB1
NAA38 DCP1A
PLCG1 ADNP
PAEP IGSF21
APP HOMER3
NFYC POGZ
PGR CSNK2A1
GRM8 GPRASP1
RB1 SUV420H2
PGR KLF9
ITGAL CD82
ERC1 RAB6B
SEC61BSEC63
GNAI3 TSHR
SRC CD44
RPA1 ACTB
RPS6KB1 EIF3B
RNF43 AKAP8L
GRB2 CTNND2
ARHGDIA CDC42
EZR PIK3R1
OGT TRAK1
AP2S1 RAB25
PPL AKT1
NCK1 IL3RA
CUL1 FBXL3
CUL1 FBXO4
ZBTB16VTA1
CUL1 FBXW2
NFASC TNFR
PWP1 SMURF1
ABL1 CAST
CD4 LCK
TFB2M PHLDA3

PDIA3 ERO1L
SRSF2 YTHDC1
RHOQ DOCK8
MAP3K3 SSH1
AIRE SNRPB
GNAI2 CNR1
UBE2D3 RLIM
MSTN TCAP
GAS7 SF3A1
THRB NCOA3
CTNND1 CDH3
JARID2 EHMT2
RGS1 GDE1
RXRA NCOA2
DISC1 KIF3A
VCL RAVR1
HCLS1 LZTR1
TERF1 RIC8A
TADA3 ESR1
KDM4AHIST1H3J
ARSE TNK2
ARHGEF7 ARHGEF6
HIST3H3 ASF1A
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CHRM5 GPRASP1
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DAND5 LMO2
SKP1 FBXW11
CDK1 CDC25A
CDK1 CDC25B
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CD2 PTPRC
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EGFR ABL2
PTPN11 GAB2
MAP3K14 GRWD1
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TGFBR1 XIAP
FABP4 LIPE

BASP1 RIPK3
GTF2E1 GTF2F1
SKP1 FBXL5
EAPP C20ORF4
SKP1 FBXL4
AKT1 ATXN1
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POLR3F BDP1
CCDC120 CYTH2
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CDKN2B MAGEA11
DRD4 KLHL12
CD2 SH3KBP1
KDM1ARCOR1
BMP2 CHR1
RAF1 KSR1
GHRHRGHRL
TAL1 SIN3A
NUDT21 CLP1
HGS MAP3K10
GNAO1 ADORA1
RBBP7 ZFPM2
FGF12 MAPK8IP2
SPI1 ETV1
PARK2 SYN1
GNAI2 MTNR1B
PCNA CUL4A
NCK1 CNTFR
ATP5J2 CRELD1
GIGYF2EIF2C2
RAF1 MAPK8IP3
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THRB NCOR2
YWHAQ HDAC4
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SYT2 KLHL3
STAU1 TUBB4
SPHK1 CTNND2
TOM1L1 HNRNPH1
NPPB EWSR1

SMARCE1 SMARCD1
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SF1 RBPMS
CDH1 EZR
TGFB1 FANCL
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KAL1 SDC2
GABRA1 PRKCD
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IL4R INPP5D
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CYCS PINX1
SFPQ HDAC2
SRF ASCC3
UBE2E2 RNF114
PLCG1 TDRD1
MEF2C TJP1
SMAD6 PIAS4
GOT2 MDH2
CLSTN1 SETDB1
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NFKBIE HSPA9
SHC1 EPS8
CASP8 PARP2
GP9 APPBP2
CHRNA4 CRELD2
HLA-B HLA-C
MAFG CREBBP
BCL2 VDAC1
TAGLN2 ACTR6
SNRNP70 HNRNPA2B1
TNF MMP17
F2 THBS1
TP53 CDC42
ERBB3 IL6ST
FOXO3 YWHAH
RPS27A ADRM1
TNFRSF1B STAT1
FADD LRRCC1

RAF1 SHOC2
KHDRBS3 YTHDC1
IKBKE CISD2
ACTB SSH3
ATP6V1E1 GRB2
DLG4 GRIN2A
PJA2 UBE2D4
YWHAB CDKN1B
SNAI2 HDAC1
TARS DDA1
RASD2 SMURF2
RPA1 HNRNPUL1
NDC80 CENPH
RBL1 BEGAIN
PI3 EVPL
CDC25C PLK1
PIK3R1 TGFBR2
SPI1 GATA2
CDK1 WEE1
EGFR HTT
CLIP4 TRAF6
EXOSC10 EXOSC8
DNAJA4 SH3BP4
KIF5A TRAF3IP1
NFKBIA COPS2
TRIM23 TRIM32
KDM5AEZH2
SART3 RRP15
MLXIPL MLX
KRT6A CCDC53
FAIM3 ZNHIT3
GDF9 ACVR2A
TXNDC9 CHD3
PSPH TNFRSF14
KAT5 FAM173A
PPP2R1A STRN4
RPL36AL LYAR
TBCA RXRB
FOS TSC22D3
PPARG NCOR2

TGFBR1 AKAP1
EXOSC10 RPE
H2AFX RPS27A
RGS7 PKD1
SETDB1 BARD1
COL9A2 C4ORF14
RBX1 TCEB2
NCK1 NEK8
MED14 FYN
PRMT5 YWHAZ
IKBKB IKBKAP
RARA BAG1
TFDP2 E2F2
RRAS RASIP1
HDAC3 RARA
HDAC3 AR
STX4 VAMP3
TUBB PPARG
POLB APEX1
CBL SLA2
DAND5 CRK
SRRM1 FUBP1
ZMYND11 PDLIM7
PIAS1 SMAD1
KHDRBS1 PACSIN3
FYN GABBR1
UBE2K BFAR
PJA2 UBE2J1
AXIN1 PPP1CA
PSMB4 IKBKE
PPP2R5C PPP2R5A
MLL NFYC
MYL6 USP45
TRIM37RIBC2
TOB1 RQCD1
DAND5 RPS27A
DNMT1 E2F1
RAF1 VDAC1
GATAD2A KAT2B
RIPK2 TUBB4

CCNDBP1 CCND1
EED AEBP2
ZNF24 KIAA1377
RAD51L1 HIST1H4I
SIVA1 LPAR2
RAD51L1 HIST1H2BG
RALA EXOC4
SRC TUB
SMARCC2 ITCH
LDOC1 FAM50B
PIK3CB TFPC2
PRKCA TRPC3
KHDRBS1 ITK
BUB1B DNMBP
SRC ANKRD11
RALYL ZNF408
PTK2B PDCD6IP
HK1 SCMH1
HIST1H1C RBM39
HIST1H4I HIST1H3J
TRIM28HDAC10
TGFB1 ARL8B
STAT1 PTPN11
PARP1 MED23
BCR TSG101
DRD2 GRIA2
TP73 HDAC1
SGK1 LTF
TOMM40 BAX
UBC ATXN3
MAPK8IP3 RAPGEF2
FASLG PACSIN1
SRPK2 SRSF3
AR ETV5
PRKCI BAD
PML TOPBP1
PPAN LYAR
PIAS1 CEBPE
TBP SUB1
KRT20 PLEKHA5

ARSE COQ6
HNRNPA2B1 SRRM2
CRYAB EPB41
MRPL23 C20ORF24
MAPK9 MAP2K4
CTNNB1 PTPN11
HRAS CDC25A
P4HB FTSJ1
HRAS CDC25C
RAF1 CCT3
HRAS CDC25B
PRKCG IRS1
MAPT AKT1
CASP4 CCDC59
SMPD1 ASAH1
CASP4 PTPLAD1
ARHGDIB RHOH
VPS16 HOOK1
DYNLT1 TROAP
MCM3AP NUDT5
PRKCA GMFB
PTK2 ARHGAP26
CLDN7 TJP1
RPL31 PRKAB1
RAF1 PAQR3
SKIL USP25
MLH1 ZER1
ITGA4 PXN
DCP1A EIF2C2
SRC YWHAE
MPP3 KBTBD4
GIPR RPS27A
NCK1 RIMS2
APP CASP4
PHLDA1 KRTAP4-12
CACNA1A SYT1
CD79A SYK
DISC1 ATF5
MAP3K3 PFDN2
DLG1 GNG13

RPS6KA1 SHROOM1
AR NR2C2
TRIM63LMCD1
RGS19 GNAI1
ABL1 BAZ2A
SMAD3 ARHGEF6
NCK1 RAC1
ENO1 GRB2
KLF1 SMARCC2
VIM SH3GL3
SFPQ FHL2
RAP1GDS1 CDC42
LOX DPT
ATF7IP LUC7L2
DDX17 LNX1
PPARG NR2E3
GABARAPL2 ATG5
UBE2D3 UBASH3B
SLC2A4STRN3
GTF2H1 XPC
LDLR AP1M2
MID1 UBE2W
CASP5 NLRP1
LMNA PCGF2
CDKN1B SPDYA
LMNA CTNNB1
DAND5 GRB2
GCN1L1 MAGED1
TP73 TDG
MPP5 INADL
HIST1H3J DNMT3A
PRKDC HDLBP
COL4A6 HABP2
PAK1 ZC3H7A
ARHGAP5 RND1
SNAP91NECAP1
COPB2 COPA
AR NCOA3
SRC DNM2
SOS1 DNAJC14

AURKATACC3
PLXNB1 PLXNA1
YWHAB MARK2
MBP MAG
JAK2 IL3RA
RPP40 RPP38
NUPL2 RAE1
TNRC6A EIF2C2
RPP40 RPP30
C1QB MYOC
HSP90AA1 PRKCA
APC COG5
SGK1 FAM98B
COPB2 COPB1
CUL4B CAND1
RAP1GAP RAP1A
FBXO5 BTRC
RPL10 TBPL1
APC FILIP1L
MAP3K7 CYLD
PSMC3 CDKN2A
FOXH1 TGIF1
HOXA10 SNAPC1
PML STAT3
SAFB2 TOPORS
TP53 SIN3A
EIF3F SHBG
ELK4 MAPK11
SRSF2 SRSF1
TJP1 TJP2
HNF1A EP300
CTNNB1 FAM123B
ITSN1 PFDN5
UBTF SMURF1
TNFAIP8 MED4
JUND SMAD3
SNAI1 ZNF225
CAPN2 CDK5R1
IGF1R CAV1
FLNA CASR

DCP1A EIF2C1
HDAC3 GATA2
NTRK1 KIDINS220
SCEL TXNIP
TKT GABARAPL2
SF3B1 RNPS1
HDAC3 GATA3
SCT VIPR1
CBX5 SETDB1
TLR2 HSP90B1
USF2 CALML5
PTP4A3 TMEM41B
RAB35 PTPRS
HNRNPL YWHAZ
PPARG CCDC88A
TNFRSF1B TUFM
TP73 TP53BP2
SKIV2L2 RNPS1
ELANE CXCL12
HLA-E KLRD1
RBM4 LRP2BP
GSN STK39
ABL1 GTF2IRD1
CD3EAP POLR1D
PML CHD4
YWHAG EWSR1
TIMM50 MAP3K3
BAG6 IER3
COL2A1 TGFBI
TRPC1 GRM1
KPNB1 ELAVL1
F2 IGFBP5
CDH1 ANAPC1
ILF3 KRTAP4-12
MAF ETS1
MRPL41 C20ORF24
ATG2A ATG2B
HCFC1 PPP1CA
UBE2K TRIM31
ABHD16A SAFB

NFYB EP300
CTNNB1 CDH9
TGFB1 VEPH1
RPS9 TSC22D1
CTNNB1 CDH7
ATXN7 PICK1
SF3B1 DDX42
TULP1 FYN
NCOR1 SMARCC1
NANOS3 CAV1
NTRK1 NTF3
DDX3X GRB2
DPYSL3 DPYSL5
EIF3A EIF4A2
LPHN1 ROS1
RANGAP1 UBE2I
CTNNA1 SPTAN1
CEBPB SMARCC1
APBB1 MAP2K4
CHAT NEDD9
PTP4A3 MCM3
TGFB3 CTGF
SETDB1 PHF10
MOBK1B STK38L
ABL1 OGN
RBBP7 MBD3L1
RASA1 ERBB3
JAK3 KHDRBS1
BCAT1 SMAD5
RARG SMAD3
PLCG1 DUSP15
ABL1 EVL
CTLA4 CD80
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TYROBP CLEC5A
RPS3 NEDD8
PGLS MDFI
RAF1 TBXA2R
CHD4 SIN3A

TAF13 TAF11
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GNAI2 NCF2
CDK2 PEBP1
YWHAZ DCP1A
ITGB4 CLCA1
PCNT CHD3
KCNIP1 KCND2
HNRNPUL2 MEPCE
OMA1 LRP8
CSN3 TUBG1
INSL6 RNF10
CFLAR CASP3
CFLAR CASP2
MAP3K3 LIMA1
ITPR1 CABP1
RBL2 E2F5
CDK2 NPDC1
DCD INPP5K
TAF10 ARHGEF1
SMARCA2 PCBD1
PTTG1 RAE1
SNW1 LRP2BP
SVIL AR
PPM1D NCL
UBE2I DACH1
LAMA5 DAG1
SYNCRIP PABPC1
NUP98 RAE1
F2R GNA13
DLG4 DLG1
FEZ1 SMC3
EBI3 IL27RA
HLA-B FHL1
RDBP POLR2C
COPB2 RGS2
GNAI2 FPR1
IKBKB IQGAP1
SNRPA ATIC
EIF4A2 SMG1

ARF6 COPS4
LRCH2 RPAP2
C1ORF55 MEPCE
CSN2 NFYC
AP1M1 AP1M2
CDK1 PTPN2
RDX CPNE1
PFKP DMWD
HUS1 RPA1
BLMH MAST1
PLCG1 GLTSCR1
FOS TAF1
RFWD3 UBE2D4
WBP4 XRCC6
UBE2I USP25
DVL2 CTNNB1
MYSM1TUBB1
PDIA3 PLOD1
SREBF2NFYC
CBFA2T2 MDFI
ACVR1 RAB17
TUBB MAP3K10
TLE1 FOXA2
CTNNB1 TCF7
THRA NSD1
DRG2 RWDD1
RNF126 UBE2D4
C21ORF33 FRA10AC1
EP300 MDC1
WAS ARHGAP1
IHH HHIP
PAK2 SNX33
KIAA0182 CDC5L
ZAP70 SHB
CYP27B1 NRIP1
GPR143 MLANA
PRKACA NOLC1
RHEB ECSIT
EP300 NCOA6
CPSF6 ARMC7

GDI1 FTSJ1
EIF3I SRRM2
JUND FOSB
EIF1B MYL6
MBP SRPK1
TAF10 KAT2A
TAF10 KAT2B
FYN HDAC6
PLOC2 HNRNPA1
CD79A HCLS1
KPNB1 SMAD2
LRRC47 USP42
CCNK NECAB2
CDKN2C INSL6
GNA14 CHRM2
EP300 IRF3
RXRA NR0B2
STX6 GOPC
OS9 HIF1A
BPTF RBBP7
TRAF2 HIVEP3
TGFB1 DAB2
TERF2 DCLRE1B
PSMB2 POMP
HADHBGABARAPL2
GBAS PA2G4
NBN MCPH1
RAD51 UIMC1
JAKMIP1 GABBR1
CUL1 CDT1
WAS ITK
MUM1 ETV7
YWHAQ ARRB2
SRF GTF2I
RXRB DNAJB14
FAM122B WDR48
ATG2B WDR45
GAPDH PCNA
SF3B1 SMAD5
NFKBIA MAP3K14

MLH1 FRMD6
AKR1C3 MAGEA11
PRKAR2A PDE4A
SLC2A1UBE2I
MAGEB2 RPS14
WASL CDC42
ACTB CDK5R2
MED6 MED9
UBE2E1 ATXN1
TP53 SMARCB1
CAPN1 SPTBN1
COL1A2 MYOC
UBE2O SAP30L
TLR4 HMGB1
IRAK1 SQSTM1
FANCA NPM1
MAGEB2 RPS16
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PPP2CACCNG2
ARIH2 DLST
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STK38 CTDP1
NUP93 AHCTF1
PSMD7 PSMC5
NRAS RAF1
TAGLN2 VHL
MBP TSSK6
FYN DNASE1L2
ABL1 MDM2
ITPR2 BANK1
PRPF8 SNRNP40
PRPF40A BAG6
TCF3 PSMD4
RPS6KB1 RICTOR
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ATN1 KIAA0913
FANCA ENO1
PAK1 TRIP6
IRS4 HSPA4
MATN1 ITGA1

EIF3B EIF4G1
P4HB VHL
YWHAZ PSMD1
TSG101 VPS37C
TLX2 IRF9
CNTFR KRTAP4-12
NR3C1 LGALS12
SUMO2 PIAS4
MAGEB2 RPS11
SLC2A2PRKACA
PRKAR2A EZR
RPS27AAPOBEC3G
TLR4 MYD88
UNC119 BRIX1
MAP3K7 NAIP
APP COL1A2
KIRREL NPHS2
TAF4 DAND5
DDX5 SF3A2
KCNJ2 KCNJ11
ITGB1 ILK
CAPZB TWF2
SMAD9 ZEB2
INSR CRK
ATXN7 TAF9
TP53 BMX
SMAD9 MCM3AP
PSMA7 RAB7A
INSR CRKL
SNRPD3 GEMIN5
RPL7 MAP3K14
RAN KPNB1
STK25 GOLGA2
SET PRKAB1
SNAP25SRCIN1
FYN SF3B4
SOCS3 IL2RB
LCT CANX
MLLT1 AFF4
YWHAG PHF3

HIF1A HIF1AN
YAP1 ITCH
CEBPD SMAD4
TUBB2A PTPRS
YWHAG TSC1
VDAC1 PPIF
CD3D FYN
SYK DBNL
CSK DOK3
TP53 PRIM1
IKBKB HSPA5
MTA2 FKBP3
SNAP91EPS15
GRB2 DOK3
FYN CNN3
SEPT2 SEPT7
HNRNPH3 TOB1
MYOD1SMARCA4
POLQ REV1
RARG NCOA3
TOX4 ATXN1
APCS LAMA1
SIAH1 HIF1AN
CUL2 RNMTL1
STK25 STRN
NPM1 SRSF1
KCNAB1 SLC39A2
NUP98 NUP88
YWHAH NCOA2
MYOD1NR2F2
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FSTL3 FN1
MLF1 GRIK5
RLF RIT2
ATF3 DDIT3
NCK1 KDR
CPVL CTNNBIP1
YWHAG NDRG1
B4GALT3 SURF2
HMGB1HOXD8

GAK CREBBP
ARHGDI1 DHX9
PRTN3 SERPINB13
RGL2 MYST2
TRAP1 EXT2
FGF10 POMC
MOBK1 ZRANB1
MAP2K3 TAOK1
SMAD9 ZNF83
PDE3A ARFGEF2
MAPK9 HDAC9
PDE3A ARFGEF1
ANKRD55 ZSCAN1
STX1A RIMS1
F2RL1 ST14
LMNA ALOX12
ACTC1 TNNI3K
RAB5A RIN3
PSMD7 TRAF6
EED DNMT3B
RPL11 MDM2
NCK1 MAP4K1
RXRA BCL3
SMAD1 SMARCE1
NAB1 CHD4
BAAT SLC7A11
SHBG UBE2O
RASA1 CSK
LMO2 KDM5B
MAPK3 MAPK14
GH1 SORD
HAP1 NEUROD1
DSPP MAP3K8
CALCOCO2 CCDC33
NFKB1 C1ORF52
USP11 USP4
LDOC1 LNX1
CALM2 CAMKK2
PRKCD ADAM9
EGFR AMH

DEDD USP7
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ADRB2 EIF2B1
BCL2 BAG1
ANGPT2 ANGPT1
PPP1CASMARCB1
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BRCA1 MSH2
PDCD6 CPNE2
SNCA GRK6
PCNA OTUB1
FLNA MYOT
STAU1 PPP1CA
RAB5A CHM
ITSN1 DISC1
RAN XPO4
HDAC4 MECOM
DLST ZHX1
ZNF367 FZR1
TNF LTBR
DSG2 NCSTN
USP7 DOCK7
ATRX SUMO2
MED27 MED9
HGS KRT18
SSB LYAR
PPP2CAPPP2R5E
MEIS1 HOXB1
IPO5 TAF1D
ATG12 HNRNPUL1
MAPK3 TAL2
MDM4 BCL2
CYP27B1 NCOA2
KIF7 USP22
SNUPN PAFAH1B2
MMS19 NCOA3
DFFB CIDEB
YWHAG GBF1
ELANE GZMB
PDLIM5 TRIM39

RCC1 TRAF6
DDB1 COPS7B
HSPA4 BAG1
H2AFJ XRCC5
SUMO1 ANKLE1
EYA4 SIX1
THRA NCOA3
DNAJB2 SMAD4
RPS14 IKBKE
RAC1 RALBP1
LAMA5 SOS1
APBB1 APLP2
PSMD7 USP15
IGF1R PTK2
PSMA7 HIF1A
VAV1 CBL
SNAPIN MET
FES JAK1
CLASP2 FEZ1
GSPT1 TNFRSF10D
PTK6 STAP2
SRRM1 ACIN1
POLR3A PKP2
PACSIN1 WASF2
ZW10 GSTK1
S100A8 PRMT1
MAGEA11 LNX1
CCDC107 UBQLN4
CNOT2 CNOT7
MYH11 GRB2
CKAP5 PTPRN2
YWHAZ CDC5L
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CYP27B1 TAF11
CYP27B1 TAF7
POLR1A SUPT16H
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FOXO3 USP7
KDR DNM2
FLNA MAPK14

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TCEA2 MAGED2
EIF1B EIF3E
PTPN12 PSTPIP2
GRAP2 GFAP
NCK1 DLX4
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ELL EAF2
LST1 C19ORF29
TCEAL4 TCEAL2
SMAD9 RMND5A
SYT1 SV2C
CDK1 CIITA
PPP1CAPP1R3B
STX7 SNAP29
HSPB1 TGM1
DAND5 SMAD4
TP53 CHD3
MAST4 SMAD1
GARS IARS
UBA5 UFC1
BIN1 MAP4K3
BRCA1 RBL2
MSN PPM1A
BRAF YWHAH
CNOT6 CNOT1
NR3C2 AR
CCDC85B APEX2
HOMER1 DNM3
CRK SRCIN1
SGTA PTN
SFPQ RNF43
NARS ATXN1
BNIP3L RINT1
MLH1 DOCK7
PPARG CHD7
PSME1 CHD3
LCK DLG1
NFKBIA RPL23

STAM2 JAK1
PRKCB DAB2
PABPC1 WNK1
NCKIPSD DMRTB1
PLOD2 RUVBL2
NUDT9 GLOD4
DRAP1 TTF2
NDC80 USHBP1
CAV1 SCARB2
DLGAP1 DLG3
FAM40B TRAF3IP3
PRAME UBE2F
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MYO1DILK
ZBTB3 GTF2A1L
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FYN CHRNA7
CAV1 DAG1
CDC7 CDKN2A
NFKBIA UBE2D2
HAUS6 NEDD1
CANX KSR1
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STC2 PPP1R8
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FGF7 FGFR2
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NUPL2 APC
UBE2E1 RNF43
COPS6 KLHL13
CNOT6L CNOT2
CRK GRIP2
IKBKG KIAA1598
SMAD3 PIAS3
CKAP4 ASCC2
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TNS3 DLC1
TSC2 TSC1
CASP3 MDM2
ASB9 HIF1AN
SH2B2 PDLIM7
FOS LRRC59
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LCK PTPRJ
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ACTN1 VCL
TCERG1 U2AF2
COPS6 KLHDC5
HDAC4 CAMK2D
BSG PPIL2
BUB3 HDAC1
ITGAV F2R
PRKCD PPP2R5C
CSNK1E RAD54B
PTP4A3 TTC27
PDGFRA GRB2
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SFPQ SMAD5
BRCA1 NCOA3
C8B CLU
CRK ABAT
TP73 SMAD2
SHC1 DDR2
SLBP ERI1
NACA INSL6
MED1 MED11
POLR2I MED19
KRT7 EIF3A
NPM1 HAND2
LASP1 TRIP13
DAND5 PPIG
GARS TRAF6
GRB2 DAG1
VHL PSMD13
BCL2 BNIPL

HSP90B1 CSNK2A2
HTRA2 BIRC2
BRI3 BACE1
MED6 MED29
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NCOR1 NR3C1
COX5B EPB41
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FASLG BAIAP2L1
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NBR1 VTA1
PAK2 PACSIN3
NFYA ZHX2
HTRA2 BIRC3
METAP2 RAC1
GUCY1B3 AGAP1
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PDCD7 HAP1
VCAM1CCL17
EIF2AK2 RAC1
PDE6D RAB8A
YWHAQ MARK3
TGFB1 PZP
EGFR RIN1
NFKB1 CDK9
INSR CEACAM1
HMGB1TBP
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CCT2 ATG16L1
PLS3 IKBKE
EMD AKAP8L
MYBL2 CREBBP
E2F3 TFE3
COPS6 KLHL9
PLCG2 LAT2
MAGEB2 HNRNPM
FGFR1 FGF3
ABCA1 DLG5
ZBTB5 PHF15
TBL1X TBL1XR1

YWHAB SPTAN1
EEF1A1 CRADD
SMARCC2 ADNP
FER JAK1
SKIL ZFP106
EPHB2 GRB2
HADHA PIN1
TNFRSF1B SLC25A11
MED8 MED19
CCT7 MED31
SOCS1 FYN
RAC1 DOCK2
FYN MAP4K1
SMNDC1 SF3B4
BRI3BP TRAF6
NAPA BNIP1
SMNDC1 SF3A2
BCL2 SF1
YWHAZ TSC1
SPTAN1 DDX24
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PIP5K1C PIP5KL1
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CDKN2A FTSJ1
LYN ITPR1
GKAP1 UBQLN4
SMAD3 NCOA3
RAE1 SMC1A
EWSR1 E2F8
COPS6 KLHL8
YWHAB C1QBP
CHGB ACACA
UBXN1 SMURF1
RB1 TRIP11
KBTBD7 C14ORF139
RABAC1 RAB22A
STAT6 NCOA3
HTATSF1 WBP4
SF3A3 FTSJ1
HADHA SQSTM1

PSMB5 NFKB2
MAPK11 ESR2
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TRIM21 NIF3L1
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HSP90AB1 MKNK1
ACTB PLD1
PIP5K1C HDHD2
YWHAZ MRPS27
U2AF2 DPPA2
CEBPD HDAC1
AMBP CD79A
AQP5 MDFI
MEN1 MYH9
SIVA1 BCL2
PIK3CG GABARAPL1
ANP32A HIST1H4I
KPNA6 CREBBP
VTN PVR
CASP14 USP53
GTPBP3 FAM60A
SLC38A1 COPS6
HAND1 HEY2
GDI2 TRAF6
MAPK6 MAPKAPK5
GHR PTPRJ
HMGA1 POU3F1
HSPB1 PSMD6
RRP1 HIFX
SKIV2L2 EXOSC4
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FXD1 YWHAQ
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GRB14 MAP3K14
RPS27A UBQLN4
STAT3 PRKCD
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PRKACA GSK3B

MAPK13 MBP
DSC1 PKP2
PRKACA GSK3A
TUBG1 PLK1
DCC PTK2
MCM2 IKBKE
RELA UNC5CL
PRPH2 ROM1
PARP1 UBC
UBE2K TRAF7
CHN1 ACVR1
ARPC1B WAS
VIM CASP8
PLCG1 HNRNPU
LST1 G2E3
YWHAZ HSPH1
NUDT21 IKBKE
DAP3 TNFRSF25
RRP1 SLC22A11
KIAA1967 C20ORF24
PSPN GFRA4
CFL1 SSH3
U2AF2 KIAA0907
CCNA2 RPA1
GHR PTPN13
MYST2 WDR33
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COL5A2 DDR1
CD3EAP POLR1E
PTPN11 TREML1
TPD52L2 TPD52L3
SOCS1 INSR
RCC1 PRKAB1
FOS ZNF133
UNC119 ANKRD24
SRSF6 SREK1

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VCL PKD1
RIPK2 GEMIN4
OPTN SYNGAP1
SKIL FZR1
GNAI3 C5AR1
RRP1 DDX21
FOXH1 SMAD4
GSTP1 MAPK14
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OAT TRAF6
CACYPB ZRANB1
FYB EVL
SAFB SREK1
ETS1 SP100
MSX1 MSX2
SF3B3 SRRM1
EIF1B SHMT2
JUND NFE2L1
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PVR PVRL1
CIAO1 MCM5
FYN PTPN11
MARK3 HDAC4
FYN DLX4
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MMP2 MMP14
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WDR5 DTL
HNF4A MAPK14
CDK8 MED10
CELSR3 SWAP70
HSPA4 CTNBL1
PRKCA NRG1

TXNDC9 KIAA1377
HDAC1 RUNX2
CTSB BAG6
BIN1 GRB2
CTNND1 CDH1
TLR4 ECSIT
TADA3 MYC
FN1 FBLN1
HDAC1 NFYC
SMAD9 FLI1
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FHL3 FHL5
PSME3 NCOA3
HIST1H1A TLK1
DOCK10 C1ORF190
GLMN NSFL1C
FOXP4 FOXP1
SAP18 ATP5L
RIPK2 NFATC2
GNG7 GNB1
FYN BTK
ATF3 INSL6
MYC PRPF8
NCOA6 RBM14
ACTN2 COIL
AP1M1 EHD2
CDKN1B COPS5
NR3C1 NCOA1
MCM3 PAK2
CREG1 CAPN1
CBFA2T2 NCOR1
HNRNPD PCSK7
ATG16L1 MAP1LC3C
SNW1 ASCC2
CXCR2 GRIA1
PRKRA IGF2BP1
HSPA5 HFE
PRKCE RASGRP3
MPDZ CAMK2A
MED27 MED29

PTEN MVP
SET MLL
SOCS2 TCEB1
ACTC1 TWF1
ZBTB9 ZNF408
PIM1 CBX1
SRRM1 ISY1
MLNR GHRL
PSMC5 NFKB2
GNG7 GNB2
CENPA CENPT
HNRNPK SORBS3
N4BP3 YWHAG
VAMP4 VTI1B
E2F1 SP3
H2AFX KAT5
E2F1 SP4
PAFAH1B3 C14ORF1
RB1 CYP27B1
NFKBIA COPS8
PPP1CAPP1R8
SOX10 HHEX
APOH RBBP6
SSFA2 YWHAZ
NFKBIE BAG2
HNF4A UBE2I
CD19 VAV1
GRIN2D HNRNPU
PRNP PTRH1
PLSCR1KRTAP4-12
NEK2 CLEC4C
SHC2 NTRK3
RXRG JUB
YWHAB GBF1
HRSP12TRIB3
SHISA5 COPS5
NXPH3 SRC
UBR5 PAIP2
RNF123 UBE2W
GNA11 ADRA1B

PSG4 PTPN12
EWSR1 HERPUD1
SYNJ2 ABL1
KRT15 TUBGCP4
CDK2 SORT1
PAM TSC1
UMPS NANOS3
GLO1 IKBKE
SPRY2 PPP2CA
EIF4A2 RPAP2
CREB1 RNF4
COL1A1 ITGB1
CDK9 ILF2
CTNNB1 CTNNA3
LSM11 WDR77
GRB2 IKBKE
ERG LMO2
EWSR1 SUZ12
PAFAH1B3 ZHX1
MAP2K1 VPS36
PLK1 USP20
PRPF40A U2AF2
RHOD PLXNA1
CCT7 PPP2R2C
BTBD9 USP25
CADPS2 UBE2D4
COLEC11 GOLM1
MYC USP9X
NANS TNIK
SMAD4 SNW1
CHAF1A CNOT6L
IPO8 GTF2F2
TGIF1 MED31
HLA-B NAP1L1
PKLR PXN
MASP2 SERPING1
LCP2 PAG1
SYCP3 SMC3
C1QB PTX3
SMAD4 TDG

THAP4 MOBKL3
FZD7 WNT3
PSMD7 UCHL5
GRB2 TRIM14
RXRA DNTTIP2
FA2H UBQLN4
FOXO4 SMAD4
PCBD1 RBL2
STAMPB EPS15
NR3C2 PTGES3
YWHAB TSC1
POLD2 POLD3
CHD3 FUBP1
CDC42 SETX
PLK1 NINL
ANAPC7 CREBBP
PAK2 CPSF6
MED14 PPARGC1A
NUFIP2 G3BP2
MAGEA11 TRMU
SPI1 SPIB
RPAP2 HELLS
CDK9 TRAF2
CYP27B1 NR0B2
ILK ACP6
SMAD4 CAMK2G
CDK2 REL
RTN3 FAM160A2
PRPF4 LSM6
POLR3D POLR3C
PDK4 TRIM63
HIST1H4I PRMT1
DYNLL1 DYNLL2
FLNA MAPK6
PPA1 SUMO4
MAGEA1 SMCR7L
YWHAG ANKS1A
MBP TLK1
PRKAB2 MAP3K6
PPARA NRBF2

GTF2I MKNK1
SMAD4 HDAC1
RPS27A SMURF1
MYC MED12
STK3 MAP1LC3C
UNC119 GIPC2
SNAP25 TRIM9
SKIL HIPK3
CDKN2D CDK4
EIF3J TPD52L1
CLN3 HSD17B12
RAF1 BAD
PTP4A3 TOMM22
MYO1C EIF4A2
CHAF1B CNOT6L
TRIM27 UBE2I
NFKB2 RPL18
NUDT21 PSMF1
ATXN1 ARHGAP32
MED1 TGS1
YWHAZ MPHOSPH9
PPP1CAAKAP11
PRKCZ NFATC2
GTF2F1 CTDSP1
PRPF4BRRP1
HNRNPA1 GTF2A1
TP53 NPRL3
ALOX12 KAT5
TOM1L1 CELF1
ATAT1 EP300
NSMAF KBTBD7
CEBPB PTGES2
EFEMP2 HOXA1
CALCOCO2 C1ORF65
NR3C1 THRAP3
TSEN54 TSEN2
CHMP4B CHMP5
GTF2H1 ERCC4
RBM25 RNPS1
RAF1 SPRY4

VPS35 VPS29
COIL CSNK2B
DNER NCSTN
GRB2 DOCK1
HIST1H1C RELA
EED DDB1
CCND3 DTNBP1
LYN INPP5D
ASAP1 SNX9
KIAA1045 HDAC4
S100A8 MAP3K3
PLCG1 DNMI
STAU1 DHX9
GRB2 DCTN1
YKT6 HNRNPH1
EXOSC10 USP16
MED1 MED15
HNRNPM RBM4B
PLXNB2 SEMA4A
SKIV2L2 EXOSC5
MSN TRAF6
STAT1 PLEC
TRIM27UBE2D1
ERBB3 PTK2
ABHD16A PILRB
SART3 SRBD1
HAT1 UBE2A
RBPMS HEYL
TAF15 PRMT1
HNRNPD GPN1
GLRX3 ZNF512B
GRB2 LY6D
CBR1 GABARAPL2
OTUD4 ILK
DRD2 KCNJ6
C1QBP RIPK3
NFKBIA RPS27A
RARB PRKD2
BEND7 SDCBP2
GTF2B FOXF2

SLC9A1MAPK10
LYN RPL10
RPS27ARBL2
PRKACA CCDC88A
EFEMP2 ZNF426
KIAA0174 ATXN1
CDK2 CDC5L
NCL NFKB2
LYN MAP4K1
PPP1CACUEDC2
ACOT7 ATXN1
NFKB1 COMMD1
PIK3CDPIK3R1
PSMD11 SMAD3
FARP2 YWHAG
PDLIM1 PGS1
COQ9 ACTL6B
AR PAK6
RB1 GATA1
SMAD4 SQSTM1
FOXO4 PIN1
HGS TADA2A
OAT PRKAB1
MAD2L1BP TRIP13
CASP9 CARD8
TFAM TFB1M
FGR WAS
HERPUD1 UBXN6
NANOS3 FIS1
SYNCRIP PLCG1
FAS FASLG
EGFR RIPK1
RAC1 WASF1
USP48 RAPGEF2
PTP4A3 TUBG2
PRKACA PSEN1
ID1 ELSPBP1
GRB2 CTTN
DARS TNFRSF10D
NOVA1 PCBP1

HMMR TPX2
KDM6ATLE1
IKBKB EIF2AK2
EGFR CAMK2G
RPS11 LYAR
ESR1 TUBB
EMD COPS6
LATS1 MOBKL1A
MED6 ESR2
TBP TAF12
GRIN2B LIN7B
HSPB1 PPA1
WDR33 WWOX
RB1 CUX1
LYN CSK
PKN1 ARHGAP10
STX4 DLG1
SMAD2 HUWE1
EGFR DCTN2
RHOC CNKSR1
VPS33B VIPAR
MARS TNFRSF10D
CAV1 FLOT2
HMGB1 UNC119
GRM5 CALM2
PLA2G4A MAPKAPK5
TCF3 HAND2
RXRG PPARA
APC CTBP1
GAS7 CYFIP1
CASP4 NOD1
ZNHIT1 CSNK2B
MLH1 PTGDS
SMAD4 RHOJ
TERT PML
CASP4 HIGD1A
AGR2 UBQLN4
NFKBIA RPS27A
TBP SNAPC1
RHOXF1 NPAS2

HTATSF1 FEZ1
FBLN1 ATN1
XRN1 EXOSC1
MAP3K10 RANBP9
C3 C5
DAND5 HDAC1
DYNLL1 CLIP2
PCM1 HAP1
RANBP1 TNFRSF10D
YWHAG FRY
NCK1 HOXC8
UBE2G2 UBE3A
CCDC85B SETD5
CRK PXN
UBE2A UBR3
RIPK2 BIRC2
STX12 HOMER1
ACTC1 BRP44L
PFDN2 PRKAB1
FANCA ATP5B
EGFR SNX1
NPEPPSPRKAB1
KRT10 MDM2
GH1 NPM1
KIAA1377 EPN1
SCNN1A TSG101
GSN CASP4
CD3EAP NFKBIB
PTPN1 IRS1
UPF1 TRMT112
HSPB1 PRKD1
CASP4 VDAC3
ARF6 SF3A1
NCOA2 SMARCE1
DOK2 ASF1B
ID3 GTF2A1L
LGALS1 SUSD2
DERL2 SEL1L
CALCA ATP2B2
TCN2 PAXIP1

PTGES3COPG2
RAB5A INPP5F
IL3RA CSF2RB
IGF2 NOV
MMP2 TIMP2
DDX24 GIT1
FHL3 LASP1
YWHAG SYNPO2
RAN TNPO1
YWHAG PRPF19
TRIM3 MYO5A
TSC22D1 MTR
EIF2C1 EIF2C2
PBX2 BAIAP2
AURKAPPP1CC
TK2 GAPDH
TRIM11MED15
MYST2 TP53
MAP3K3 TMOD3
TP53 MAPKAPK5
CCT5 IKBKE
DOM3ZXRN2
DYNLL1 NTRK3
EMD RCOR1
NF2 MED28
SET TRAF6
TADA1 USP22
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DLK2 ADAMTSL4
RIPK2 BIRC3
BCL6B SIN3A
MMP13 ADAMTS5
ABCA1 RAPGEF6
PPP2R1A IKBKE
TRAF2 TRPT1
FCHSD2 HSPA5
RIPK2 SMAD4
RPAP1 GPN1
TUBB2A HDAC6
CASP1 CASP4

VPS26ASMYD2
GPRASP2 BARD1
PKD1 ATF7IP
CPSF6 WWP1
BRAF SFN
BRAF YWHAB
PLIN1 ABHD5
UBE2E1 UFM1
PSPH PRPSAP1
CYR61 ITGB5
RPS16 IKBKG
CDH1 KIFC3
DCP2 DCP1B
STRN4 CTTNBP2NL
RB1 CEBPE
EPOR GNAI1
ATG12 LMNB1
AES HNRNPAB
IKBKB CNTN2
S100A9 ARRB2
TRAF1 RCN2
GNB2L1 AGTRAP
RANBP9 DISC1
SPTBN1 PLCB1
MC5R ASIP
LAMP1 AP2M1
DVL2 ZNF263
YWHAB RASGRF1
YWHAZ DDX1
PFN2 IVNS1ABP
APBB1 HNRNPH1
NCOR1 UBE2I
WBP4 SF1
LYST VTA1
APEX1 CSNK2A1
PTK2 CSPG4
ARPC3 ARAP1
ACTN1 ATXN2
OLFM2 RPS6
USP7 EWSR1

SORBS3 DMRTB1
SETDB1 CDK4
PCNA DDX11
IRF3 PPIP5K1
ORC3 USP19
ID1 RUNX1T1
UBE2F WDR77
EDF1 NR1H3
SMAD3 UCHL5
FHL3 RBM42
MYBL2 ZNF622
PLOD1 MAP3K3
PDHB TRIM63
RAB3B RPH3A
ARVCF CDH15
RB1 AP1AR
TFG VOPP1
YAP1 WBP2
SRRM1 PRPF19
BECN1 KIAA0226
RPL27A
HAP1 MPP3
SMAD3 HEY1
PRIM1 RAE1
PHC2 SFMBT1
FANCA NUB1
YEATS4 NUMA1
HDAC3 SRF
CTSG VCAM1
MCM3AP SMAD3
TP53 SULT1E1
CPSF6 EWSR1
SLC9A3R1 PHLPP2
ABL1 CDK1
SMARCA4 NFKB2
MAP3K1 CDC37
PPP3CBMYOZ2
DLG2 FZD4
AMBP GRB2
BCOR HDAC5

ERBB2 OSMR
LTF CALM2
SNAPIN SHBG
STX1A VAMP8
ADAM17 SH3D19
TLK2 ASF1A
PI4KA STRN4
CASP4 HEATR2
BCL2 CYCS
MLL2 ESR1
MAP3K1 DDB1
RBM25 CDC42
TRAF1 HIVEP3
CFL1 ACTA1
INPPL1 FCGR2B
ESR1 CCND1
RTN3 RAB33A
ATXN1 AHDC1
PSMA3 PSMD13
IGF1R MDM2
PPP2R1B USP53
ITGA2 HSPG2
HNRNPK WWOX
CLTC NFKB2
PPP2CACDK6
GADD45G LUC7L
POLA2 EZH2
RAB3GAP1 RPH3AL
EPRS EEF1D
PRPF4 PRPF31
RPS5 NFKB2
ITGB2 NUMB
SUV39H1 HIST3H3
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VAC14 EIF4A2
HOXC8 DLX5
NR3C1 NR2E3
EHD4 GSTK1
BRAF YWHAZ
NPY NPY2R

CSTF2 CSTF3
NCK1 SOS1
UBE2E1 RNF11
DUSP1 MAPK14
YWHAQ YWHAG
CDK1 FEN1
PRKCB GCNT1
NCL HIST2H2BE
RNF19B UCKL1
AVP TXNDC17
PSMA7 GABARAPL2
GDF9 MOBKL3
NCK1 SOS2
SKIL WWP1
PTPRA UVRAG
TCF4 EP300
STX11 C19ORF50
HNRNPA0 MEPCE
PSMD1 TRAF6
RELA SIRT5
TP53 TAF6
YWHAG BAIAP2
MYCN NMI
EEF1D CCT7
KRT1 LOR
TP53 GSK3B
SKIV2L2 EXOSC7
DLG5 BTBD10
PRKCA JAK1
CYP27B1 NR1H2
GLUL HIPK3
FRMD8 IKBKG
CDKN2A CDC6
SMARCA2 KHDRBS1
FRK ABI1
AP2A1 DPYSL2
PSMD6 PRKAB1
TAF1 ASF1B
ATP1A1 EZH2
GRAP2 GAB2

STAT3 CDK9
CACYPB CNOT8
ZNF646 MDFI
BCL2 PPP3CA
CAD RPF1
SERPINE2 COL4A2
CCNE2 CDKN1A
ARID4A INGX
SHC1 SHCBP1
PCMT1 CREBBP
TPT1 EEF1D
CDKN1A SET
EFNA1 EPHA1
MED25 MED18
PCNA MCL1
POLR2C GTF2B
KBTBD7 MRPL45
TTR PIK3R5
TAF13 TAF7L
FLNC WNK1
TAF1 CCND1
CDC45 CDKN2A
XRN1 CENPBD1
SFPQ MAP3K14
CTNNA1 LIMA1
YWHAZ MAP3K5
PDS5A SMC3
TCERG1 WAS
MAP2K5 CCDC40
STX11 CCNK
GTF2E1 GTF2H1
HIST2H2BE DZIP3
UNC13B STX1B
PAX3 SOX10
PDHA1 DGKE
E2F5 CREBBP
YWHAZ LYST
SMARCA4 NONO
DMD UTRN
CYP27B1 NCOA1

MRE11A FANCD2
RPS6KA5 EP300
DYNLL1 NRF1
SORBS2 AKT1
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BIRC2 FBXO7
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SMAD3 SMAD2
SQLE RAPGEF2
NPM1 USF2
IGF1 IGFBP3
HOXD4 TIGD4
RAE1 TJP1
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PRNP CAV1
USP12 WDR20
CCNT1 MYC
PSMB1 PSMD4
RPF1 PMEPA1
GABRR1 P2RX2
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UBA3 UBE2F
SGK1 SF3B2
PPP1R12A ILK
DYNLL1 NTRK2
PIAS2 SNIP1
AKT1 HTT
TOP2A MAPK1
BECN1 SMC3
TLE1 RERE
HSPA5 TBK1
CCDC85B IKZF5
CRK REPS1
SNAI1 CTDSP1
SCGB1A1 LMBR1L
PCNA POLE
BEGAIN C16ORF48
XRCC6 MSX2
RBMX USP45

COPS5 PLAC8
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GTF2F2 GTF2F1
POLR2E PML
CLDN3 GRB2
RPAP2 MED17
GTF2H1 TXNRD2
POLR3F C14ORF1
KHDRBS3 ZNF408
PLG SPARC
ZFYVE9 CHD6
ORC2 TERF2IP
DVL2 CSNK1E
PRKCZ FADD
DLG2 GRID1
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IAPP PCSK2
RNASEH2A NINL
TECPR1 ATG3
IL1R1 IL1RN
RPS11 RELB
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DEDD KHK
CD63 HLA-DMB
SRSF4 PPARGC1A
HSP90AB1 GTF2E2
HAP1 PABPC4
PRKCZ MAP2K5
LONP1 DAXX
TUBA4A TBCE
VPS41 MON1B
CDH1 ANAPC7
PAICS MCC
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CCNE1 FBXW7
DRP2 DTNA
PCNA DSCC1

HIF1A SAT2
SREBF2ZYX
CTSL1 CTSC
XRN1 LSM4
UPP2 VIM
HK2 ZBTB17
PAK1 DYRK1B
MEIS1 HOXD13
AP1G1 ZNF512B
GOLGA2 TUBGCP4
CASP4 SRPRB
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MEIS1 HOXD12
ABL1 RB1
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KCNH4 MAPK8
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YWHAZ PRKCD
NF2 PAK1
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HSP90B1 UBA5
PAK2 PSMD13
FYN TYRO3
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ATP2A2 TNFRSF1B
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GRB2 PTK2B
COL4A3 KLK6
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PSMD2 UCHL5
DYNLL1 DNAJB9
SFTPD MFAP4

IFNAR1 RPS27A
YWHAG HDAC5
TNFRSF10B FAS
APOB CANX
NSF NEK6
LNX1 C19ORF50
DAND5 NR5A1
ARR3 RNASE6
MAP4 RXRB
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DYNC1H1 NDEL1
XPO6 BRF2
BCAR3 RUVBL1
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PDE6D RAP2B
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IL7R PTK2B
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APLP1 APLP2
EED YY1
ENG ACVR1
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LONRF3 SMURF1
LRPAP1 POLA2
NFKB1 ELF1
TANC1 SHANK1
UBE2B HLTf
CCT4 STK24
HNF4A NR2C2
HIST1H3J EP300
KRT10 NFKB2
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KPNA1 RELB
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HGS STXBP1
CCT3 NFKB2
MAP1LC3C ATG5
RAD23B EEF1A1
CDK8 MED1
ZFAND5 TRAF6
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FANCA CDK1
BCL2 RAD9A
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PFN1 CMA1
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STMN4 TRPC5
NRXN3 NLGN3
BCL2 PKMYT1
YWHAG MACF1
SYNM DTNA
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ARRB2 RPS27A
SNCA MEF2D
DLG3 DLGAP4
ESD TRAF6
RRM1 HLA-B
MCM3AP CDC42
TRAF3 TRADD
CDKN1A E2F1
AKAP17A SRSF1
HDAC3 MEF2D
PRKAR2A MYCBPAP
ATXN7 RAD23A
CCS YWHAG
PRNP STIP1
KIAA0182 RBPMS
HLA-B CDKN2A

HCK BTK
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LMNB1 PRKCD
UPF1 INTS6
ATG12 SERBP1
IPO5 WNK1
TAL1 RUNX1
NASP LUC7L2
PTK2B ARHGAP21
DDOST CLN3
ACTR1B DCTN1
ITGA2 PDIA3
PRKCH GOLGA4
HDAC4 RUNX3
GFI1B MON1A
BMPR1B LZTR1
APOB CALR
DLGAP3 PTK2B
RPAP2 INTS7
RPF1 WBP2
HNRNPH3 RPS4X
SAP18 DES
GCLM TNFRSF14
RYR1 PRKG1
PML SATB1
NPM1 CDKN2A
MARK2MARK4
POLR2C TH1L
EIF1B PSMB7
CAMK1HDAC5
BUB1B CDC27
NSMAF XIRP2
GRB2 FLNC
RRM1 IKBKE
POLR2H POLR2G
KAT2B HIPK2
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VDAC1 PRKCE

SLC16A1 SERINC3
CBFA2T3 HDAC6
GDNF GFRA1
CRADDLRDD
CDK5RAP3 DMBT1
POLR3F GTF3C4
SRP14 IKBKE
GRB2 MYBPC2
RHOA DEF6
PTGS2 COPS3
PPP1R12A ROCK1
IGF1R CRK
YWHAG MYH9
IGF1R CRKL
RB1 CDK4
YWHAG SRRM2
NCK1 ASB16
CHGB CCDC92
ACTN1 PTPN1
MED25 MED10
COL1A1 IGFBP3
EIF2S2 TLE1
CASP3 RPF1
RXRB NR2C2
CLSTN1 SLK
ICAM2 EZR
CRHR1 GNAS
GSN FHIT
RPL31 IKBKE
NFKB1 IKBKG
SNX1 ACVR2B
MKNK1MYO6
CLTC EHD1
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YWHAZ HDAC7
RAC1 TAF15
NR4A1 HIF1A
BIRC2 UBE2J1
YWHAG SAMD4A
ESR1 PPP1CC

CFTR DNAJA1
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RPAP2 POLR3E
SMAD2 SMURF2
DDX6 U2AF2
CDC37 POLR1E
SGK1 MOBKL1B
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DLG3 CNKSR2
CFTR PRKCE
PSMB1 VHL
AR WHSC1
SLC25A20 HN1L
USP8 RNF41
CD2 CD247
GRB2 SPRYD4
CALCOCO2 PIAS4
FYN CCKBR
APPBP2PCSK5
DST MAPRE1
FXR2 RALYL
YWHAB MLXIP
MCM7 INTS6
USP2 HOOK2
SMARCA5 CDT1
KLHDC10 NUDCD3
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HCFC1 BAP1
RHOQ PARD6A
PSMA3 STUB1
ERBB2 DOK1
AQP1 KRTAP4-12
HNRNPA1 NNT
TAF6 GTF2A1
CD34 ATF5
KRT33B EFHD1
RBMX RBM7
RNF19B BTG4
BIRC3 RIPK1
TM4SF1 DDR1

VAV1 HNRNPK
PRPF40A APBB1IP
UBA52 SMAD2
MYOD1CREB1
PSMD6 TRAF6
GABBR1 ATF5
CSDA SRRM1
EPHA2 PTK2
CR1 CR2
FLNA OPRM1
SSR4 ARF6
CD3EAP TAF1A
CD3EAP TAF1C
SKIL TTF2
THBS1 CALR
EGFR GPM6B
RPS11 DDX56
LPHN1 DLG3
AKAP10 PRKAR2B
FN1 ITGAV
CAPN1 PTPN1
IPO7 KPNB1
CDH1 CDON
JAK2 EGFR
DDX24 VDAC3
DDX24 BCS1L
MYC LBR
ATP6V1C1 PPARG
PSMD6 TELO2
MAGEA11 ILF3
SSB EMD
CYP2C9 CDC37
DST KIAA1549
SLC2A4HK2
RIPK2 PSMB5
SKIL INGX
RAC1 EEA1
ANXA5 KDR
RTN3 COL4A3BP
PRPF6 ARAF

NR3C1 NCOR2
SH2B2 CBL
CASP4 SERPINB9
FGF17 FGFR1
MAPK1 ARRB2
EXOSC9 EXOSC1
SNRNP200 CASP4
STK3 CACYBP
IL16 KCND2
ZBTB7A SIRT1
CDKN1A DDB1
HLA-B LRPPRC
RPS6KA2 CREBBP
SKI TBL1XR1
DYX1C1 MAP1LC3B
KCNA4 ACTN2
ETS1 GATA3
UBA52 RNF11
HNRNPM LMO3
MCM2 CCNA1
AR MDN1
PDHA1 PDK1
JAK2 ABL1
PDHA1 PDK2
PIAS2 TRIM27
SORBS2 PKM2
PPM1B MSN
NGF ROR1
EEF1A1SDHAF2
PRPF40A SDK1
LRP6 DKK2
CBX4 CTBP1
IL4R CD40
RPAP2 POLR3B
EEF1A1RSRC1
RHOA ARHGEF2
EGFR GAB1
ERBB2 BLNK
ACTN3 NRAP
APC RILPL1

PDHA1 PDK3
HSP90B1 TLR1
NUP98 NFX1
VIM OSBP2
BMP7 SOSTDC1
ARL4D SMAD2
ARL4D SMAD1
TIMM23 TIMM44
ARPC2 RNPC3
GH1 RPS19
TAL1 MAPK3
MYC HNRNPC
DDX5 NCOA2
ASGR1 LASS2
MTUS2 ZFP64
TERT PRKCA
UBE2C ANAPC2
RANBP1 KPNB1
SYK HDAC9
DLG4 ADAM22
KCNK3 YWHAE
EIF31 TNFRSF14
VRK3 TSG101
YWHAZ KIAA0232
PSMD1 UCHL5
DEK KAT2B
TERT RUVBL1
FOS ZNF277
ABHD16A HM13
COX6C PHB
RPS6KA3 MAPK14
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PAK1 MYLK
GNAI3 CNR1
RYR1 S100A1
S100A2 FKBP4
SEPT4 SEPT8
TP53 NUMB
ECHS1 GRB2
ID4 ID3

CSK PTPRK
MYC HSP90AA1
NR3C1 PRRC2C
FBL DDX20
NCOR1 RARA
NCOR1 AR
RBM24 RBFOX1
EXOSC2 DIS3L
PAK1 GIT1
SMARCD1 CHD7
PDGFRB CAV1
ALB HNF1A
TAF5L TP53
PMS1 UBAP2L
RAC1 RAB35
RPS6 RPS6KA2
YWHAB EDC3
UBE2G2 MDM2
GATA4 TBX5
ATR RHEB
SERPINA1 CANX
TERT TEP1
NR4A2 CDKN1C
CHML RABGGTB
IRAK4 TRAF6
SMAD5 WWP1
CTNNB1 PHF17
ID2 IFI16
TNFRSF1B FLNA
HAUS1 OSBPL9
SIAH1 RLIM
APC AMOTL1
NR3C1 NCOA2
CHN1 CDK5
IPO13 PAX3
MAML1 NOTCH3
RPF1 SLC6A3
NRP1 FGF7
DLG3 SLC25A16
DSPP NFKB2

PARP1 PARP2
FYN CD226
PTPN6 STAT5B
IKBKE MZT2B
TRIP13 CPSF3L
NCOA6 TGS1
SKIL CHD3
XRCC6 SMAD3
U2AF2 FTSJ1
INS CPE
PLCG1 RGS7
ABL2 GRB2
CLASP2 AKAP9
TFRC YWHAZ
NASP TRAF6
UBE2I PARK7
HIST1H2AE UHRF1
YWHAZ GCN1L1
CASP3 MCL1
RNASEH2A EP300
SUV39H1 RBBP7
HUWE1 CDC6
CCND1 EP300
PAK1 SMAD1
MAP3K3 CRIM1
PAK1 SMAD2
FN1 RPS3
ATP2C1 STIM1
RDX CPNE4
EXOSC6 UPF2
MAP2K5 GOLGB1
NKX2-5 HIPK2
GLRA1 CCND1
CLTC WNK1
RXRA RAC3
USF1 SMARCA1
CUL1 HIPK2
UPF1 GNPTG
PKD2 CD2AP
MAP2K1 VRK2

DOM3Z FLOT2
GRB2 TEK
SNAP25STX12
C3 C2
SFPQ CDC5L
SMAD4 ARFRP1
SMNDC1 SF3B3
APC SRRM1
DYNLL1 GNB2L1
ESRRG NCOA1
STX6 NSF
SFN REEP3
HRAS ERBB2IP
GAS7 SF1
MPDZ PLEKHA1
WASL FNBP1
IRAK1 CLN3
CDC42 CDC42SE2
CNBP PABPC3
CDC42 CDC42SE1
NCK1 NEDD9
RPL13 GRB2
RNF8 CCDC85B
SOS2 ITSN1
NEFH PKN1
RGS14 TRAF2
MYO1DPPP4C
NR3C1 ZBTB20
CYP27B1 HMG3
AP2M1 EHD2
NFKBIE UACA
LSM3 UTP14A
NCL PA2G4
UBE2N RFW3
CYP27B1 STAT1
DEDD FADD
USP8 YWHAZ
DYNLL1 ACTG1
EPHA3 RUFY2
ABL1 PTPN12

SKIL FAF1
IKBKB NFKB1
KRTCAP2 C20ORF24
PHB RELA
HNRNPM TOPORS
PRKCI MAP2K1
THBS1 TFPI
RPL35 TAF9
PSMD11 GDF9
BECN1 TSC1
PRMT5 SIN3A
PTEN MAGI3
SF3A1 WWOX
RBMX RBM7
SNRPB ASCC2
SRGN UBQLN4
LCK ACP1
SPTBN1 DISC1
RABAC1 DUSP12
ANKRD28 PPP6R2
PPARG ZSCAN1
CASP1 IL18
ERBB4 AIDA
ANAPC7 BAP1
MET LRIG1
ZBED1 SUMO2
ERBB2 ITGB4
VIM SERBP1
PAFAH1B1 WDR5
TFF2 TAC1
EPOR ATXN2L
MPDU1 SLC1A5
SGSM2 PNO1
SUPT5H PIN1
PRPF8 GIGYF2
MYC WDR5
TERT RUVBL2
RARG NCOR2
MAPK1 MAP2K2
SUMO2 RUVBL1

PPP2R5A TP63
HIST1H4I ING1
RPA1 ORC6
UBC TNIP2
ATP5C1MPP1
RUVBL1 NFKB2
ARRB2 MRPL43
SALL2 EWSR1
YWHAZ MAP3K3
EWSR1 CNST
NCK1 TNK2
MAPK3 DUSP5
SDC2 EPB41L1
HLA-B B2M
CXCR6 CXCL16
CCNB1 RALBP1
GTF2E1 TRIM15
AR TCF4
MAGEB2 RABL5
COL2A1 BMP2
MCM10 CEP72
MPDZ PLEKHA2
FABP1 GRB2
NCOR1 MYBL2
NR5A1 TRERF1
CTNNB1 LEF1
SLC16A1 AP1S1
RNF183 EWSR1
CXORF26 STRN4
NCOR1 MYB
SPAG9 TGFBR1
GFRA2 GDNF
GABARAP ATG2A
MYBL2 HDAC2
PARP1 SWAP70
CSNK2A2 FKBP3
ATXN7 TRRAP
SRGAP3 WASF1
CLTC MAP1LC3A
SMARCA4 ZMYND11

RYR2 SMAD5
RPS6KA5 HIST1H1B
DMD SGCZ
LRP8 ANAPC10
HIST1H4I CTNBL1
SMARCA5 MCM3
ARFIP2 RAC1
PSMD2 TRAF6
CTSB ADAMTSL4
PACSIN1 SH3BP1
NCK1 DCC
MAPK3 HIF1A
MAP2K2 DUSP12
CELF1 FUBP1
CLN3 NUP93
MAST1 AP1M2
RTN1 SPAST
SLC2A4CCDC116
TCERG1 HTT
BAI1 EIF3H
PTK2 KCNMA1
TSC22D1 C2ORF47
SNAPC1 NR2E3
HLA-B ATF7IP
EDF1 NR5A1
RXRB KLHL11
IRS1 ROCK1
SRC ALS2CR12
CBL NOTCH1
NBN BRCA1
TCEA2 CAND1
YWHAZ CPNE1
BCAR3 TSN
BAK1 BCL2L2
SFPQ HN1
YWHAZ CCT7
ACTL6B CTBP1
BCL2L1FKBP8
VAV1 MAP2K1
DYNLL1 HDAC6

SPTBN2 STAT1
EGFR GRB10
HCK EVL
MED26 MED25
PIK3C2A FKBP4
CCT4 PPP2CA
SF3B4 SF3B2
HOXC13 ELF1
CD44 ANK1
EGFR PTPRS
PSEN2 PSENEN
GOLGB1 VT11B
HGS TOM1L1
JUP CDH5
FSCN1 GNAS
ATR IKBKG
RABIF RAB8A
ERBB2 CD44
CIITA NCOA1
CDC25B PHB2
TRIM28 TRIM6
GATA1 TRIM25
WAS ENAH
CHAF1A ASF1B
WWP1 EWSR1
FURIN ITM2C
LDOC1 ZBTB16
AKT1 PPARGC1B
RAD1 MAP1LC3B
OPTN ZMAT2
CDK8 SMAD1
CTSD SERPINA4
CNOT3 SRRM1
PPARG MAPK8
AXIN1 SUMO1
DAND5 SKP2
FHL3 RBM42
TBL3 URM1
HOXD12 MAFB
PSMD11 PAAF1

STC2 AIFM1
NUP155 MCC
A2M IL4
NEK2 RHOB
TP53BP1 NEK1
BMPR1B RHOJ
KIAA1267 TRAF2
XRCC6 PIAS4
CYP27B1 MED1
CCND3 CDK4
TUBA4A SMAD2
TUBA4A SMAD1
FOXO3 ESR1
KDM1A ATP5J2
MADD LRDD
MCM7 CRLS1
MCM7 MCM8
HIF1A FAF2
GRB2 GRB7
SMAD3 TGIF1
CRK AGPAT4
GFAP PRKCA
ARNT SIM1
CAV1 GRB7
NUP98 NUP133
PRKACA PDC
CFLAR SF3B1
ATG7 GABARAPL2
CNP PTK2
BPTF SMAD2
DLX5 SOX8
UBE2U TRIM47
HNRNPF ZNF689
AR AKT1
PPP1CAT PRN
CHST12 UGGT1
SOCS6 RBCK1
SKP2 COPS6
ITGB1 ITGAV
BHMT BBS4

ZW10 PHLDA3
EEF1D HEXDC
RPAP2 PDRG1
CDC45 TSC22D1
EEF2K CDK1
MYC PDCD11
ABL1 DNMI
ANKMY2 RAPGEF2
AR RCHY1
GDI2 PRKAB1
HNF4A PPARGC1A
ACTN1 PALLD
VHL CHMP2B
RPS4X MAP3K1
IMMT RER1
SEC24ATRIP13
PSMD6 UCHL5
PDCL IKBKG
GH1 MAPK3
DYSF CAV3
SMAD3 GMEB1
CDC42 PAK6
RHOA RASGRF1
SERPINH1 CDK9
UBE2H COPS5
SF3A2 HMG20B
NR5A2 PROX1
SNRNP70 SRSF2
NT5C2 NME7
PPARGC1B ZNF513
GADD45G KAT5
FGF19 FGFR4
EP300 CALCOCO1
CBFA2T2 CBFA2T3
OPRL1 PNOC
CHD1L PARP2
FZD6 SFRP1
HCK PLCG2
EGFR PLD1
GABRR1 CSNK2A1

BZW1 MAGI1
SNAP25SYT3
PEX5 PEX13
CTNNB1 TNIK
CPE BDNF
PIAS2 PGR
LMO2 DAZAP2
CAST CASP3
FKBP1A ITPR1
CNOT2 CNOT6
CDK1 TOP2A
IL4 IL4R
DEAF1 LMO4
CSNK2A2 TCF7L2
DEK CREBBP
PTPN1 GLRX
CDK8 MED25
STAT4 IL12RB2
LASP1 ZYX
CDK1 NDE1
RFC2 DDX11
DLG4 CRIPT
CHD3 SDCCAG3
SMAD9 TINAGL1
AES SH3GL3
GRB2 GAB3
RHOA ARHGEF1
TPM1 TNNT2
HIST1H4I GATAD2B
PSMD14 PSMD10
MYC SMC1A
POLA1 RBMS1
FIBP KIAA0528
RASA1 ARHGAP1
RNF4 NFATC2IP
PRKAB2 SH3PXD2A
TRIM24TRIM28
RPL8 PTPMT1
MYST2 C9ORF82
ABL1 DOK3

DEK HDAC2
MTOR RPS6KB2
NR4A1 BCL2A1
FASLG DAXX
F13A1 F13B
FCHSD2 MAGI1
RGL2 HRAS
HAP1 STX5
GNAQ TTC1
RPA2 TP53BP1
RAD23B PSMD1
LPHN1 ANKS1A
TAF1 RBL1
ACTR2 IQGAP2
EPS8 PCM1
BCL2L1BAD
SIGLEC5 TRIP13
EPHB2 EFNBI
CASP3 HNRNPU
RPS27ANDFIP2
HNRNPA1 PABPC4
PLCB3 MKNK1
LSP1 DAXX
ZBP1 RIPK3
CTNNB1 AJAP1
IMPDH2 VHL
GNAI2 ADRA2A
GSK3A MAP3K11
CTNNB1 FBXW11
CD40LG RNF128
TMPO SGTB
ANXA2 CEACAM1
ORIG1 OBP2A
NAPA STX4
MYH14 PLEKHA5
ESRRA PROX1
RPS27ARELA
RPS27ASMURF2
A2M SPACA3
BRAF AKT1

GNAI3 S1PR1
TYMS TNIK
GTF2I USP7
EPS15 UBE2H
EFEMP2 RERE
TCP1 PPP2CB
PSMC5 PSMD6
MBP PBK
RHOA CASP10
GFI1B AGPAT6
NFKB1 NCOR2
USP8 CHMP4B
SLAMF1 INPP5D
DDX56 HECTD1
IL16 PPP1R12C
NCOR1 NCOA3
DCN SFTPD
NFATC1 GNB2L1
HNRNPK DIDO1
MAP2K2 DUSP3
APP LRP1
SYNJ2 NCK1
STC2 EIF2B3
PSMD10 PAAF1
AKT2 SH3RF1
CAMK2B CAMK2D
MGRN1 UBE2D2
PRKCG CCHCR1
BCL2 MAPK11
GRB2 COBRA1
CSF1 GAB3
LYN NEDD9
CTNNB1 APPL1
STXBP3 PRKCA
SCN4A DLG1
CCT3 TBK1
PPA1 HDAC6
POLR2E POLR2G
LSM1 UXT
NTRK3 KIDINS220

XPO1 AIRE
ITGB4 ERBB2IP
EFTUD2 MEPCE
CBX3 L3MBTL2
LNX1 KRTAP4-12
PTPN6 CAV1
PDLIM1 STK35
PRPF40A PTPRF
TCF21 TCF3
MEOX2 RND2
ZBTB25 TRAF2
SLC4A2 EPB42
EGFR MAPK8IP2
SNF8 VPS25
LYN PDE4A
BAP1 IPO4
TUBGCP3 AKAP9
SPG21 GGA2
PEBP1 TMBIM4
RNASEH1 G3BP2
ATXN1 STAC2
EIF3F EEF1A1
SORBS2 SFN
GNB2 GNGT1
SET PPP2R5A
UBE2D3 UHRF2
HNRNPH3 UTP14A
EDF1 TBP
GNB2 GNG3
SYK VAV2
HNF1A STAT3
RB1 MRFAP1
TNNT1 TNNI1
RXRA NRBF2
MAP3K7 FKBP5
TEAD3 TNIK
JUP WDYHV1
SF3A2 NRIP2
EIF1B EIF3I
A2M APP

TPM1 PKD2
KCNA5 DLG1
RBMX SRRM2
EEF1D CAMSAP1L1
GABARAPL2 STK4
ID3 GNB2
ARNT NCOA2
AKT1 IKBKG
MAPK9 SMAD3
APEX1 MUTYH
SKP1 BCOR
JAK2 BRCA1
SAR1A TRAF6
LCK CSF3R
HCFC1 THAP11
STMN1 PRKACA
ITGB1 ARHGAP5
CSNK1E ANKRD6
TGFB1 ARHGAP15
TGFB1 NEK8
PMS1 HELB
TRIM29 CEP70
PBX2 UBE2E1
SUV39H1 GFI1B
RAP1A FTSJ1
SNAP23 SCAMP1
C1ORF174 GOLM1
BCL2 PPP2R5A
COPS2 IKBKE
AHR NEDD8
ESR2 PIAS3
CDK1 BIRC6
SF3B4 SUMO4
IGF2 PCSK4
GSK3B TRAF2
DVL2 ARRB1
LYN FCGR2B
WDR5 NLE1
HLA-B NPEPPS
DKC1 LYPLA2

PPP2R1A PPP2R5D
MCM3 ORC2
REL WDR37
RUVBL1 TRAF6
KRT15 KRT20
RAB1A RABGGTA
BRCA2 HMG20B
KIF3B MAP3K10
APOE LOXL4
PAK1 SMURF1
CDK1 CUX1
PAK4 SFN
RNPS1 NFKBIL1
RBL1 SUMO3
PAK4 YWHAB
HNRNPA2B1 CSNK2B
STX5 VTI1B
CHGB MGLL
DVL2 MCRS1
PPP1CARPAP3
FAM107A VIM
STAT2 CREBBP
ECHS1 YWHAZ
PMCH PCSK6
PRKCD CKLF
PMCH PCSK1
BACH1 TP53
CBL CRK
CBL CRKL
RAB3A RABIF
SSRP1 SREK1
CIITA RFX5
CNOT4 UBE2B
LALBA B4GALT1
SGK1 IPO4
NUDT3 RAB17
BCL2L1MOAP1
HLA-B CACYBP
YWHAG ARHGEF2
HRK BCL2A1

RALYL EWSR1
ARL1 SCOC
RALY SPG7
SH2D1B LY9
NUP98 SEC13
HLA-B GRPEL1
VEGFA KDR
DAND5 RAD51
LAMA4 MED31
HNF4A CITED2
MAP4K4 ITGB1
USF1 GTF3C1
HSP90AB1 AKT1
ESR1 GADD45A
RPS27AFANCI
VPS41 AKTIP
TUBB ASCL2
HSPA9 TAB2
SRP14 VHL
CIT RHOB
SGK1 EIF3F
TRIM26MEPCE
UEVLD DTX3
PFN2 MYPOP
MYC MED16
BAX PMAIP1
LTA4H IKBKE
STAMPB CLINT1
ARL4D ARL6IP1
DCN MMP3
C20ORF24 EHD4
DCN MMP2
ELL SNF8
KIAA1377 KLHL20
CDK1 INCENP
PRKAR1A AKAP4
DLGAP3 PTK2
HSPA5 MAP3K14
NUP214SMAD2
SERPINA3 CELA1

JUP BIRC2
CUL7 FBXW8
NF1 TBPL1
PTN DUSP12
RB1 PPA1
RGS3 EFNB1
NAP1L5 IKBKG
LPHN2 SHANK1
POLR2B MED29
RGS10 PRKACA
DLGAP1 DYNLL2
UBE2I HDAC5
KRT20 AMOTL2
SH3PXD2A MED28
PTPRB MAPK3
PCYT1A ACTB
PCM1 CEP72
KIAA1377 LUC7L2
RUVBL1 TELO2
USHBP1 USH1C
AKAP6 DTNBP1
ATXN1 FAM46A
IFNAR1 JAK1
ORC2 TERF2
RAD18 FANCI
YWHAG ING1
CCNA1 SKP2
NCOR1 TP53
IKBKAP BAG6
TNFSF11 AKT1
SYNCRIP KLHL3
PLSCR1 TRAF4
MYST2 ZBTB8B
COLEC11 PIAS4
TERF1 ACD
MVD EIF4EBP1
RASSF5 GABARAPL1
SMARCA5 H3F3B
EFEMP1 GF11B
RPA2 FYCO1

ECT2 KLHL20
CD34 CREM
TGFB2 DAXX
QARS IKBKE
SUV39H1 THRA
GRM5 PRKCQ
PARP1 TRAF6
RELA DDX21
MED12 TRRAP
SKI NFIX
COL2A1 ITGA2B
SGTA EFEMP1
E2F3 CREBBP
KRT18 CAMK2A
SRGAP2 YLPM1
FGFR3 STAT3
LCK DEF6
ORC1 HAUS1
SUPT3H ATXN7L3
CCNA1 EIF3I
MYC KDM2A
BMP7 CHRDL2
UNC119 HLA-DQA1
LMO2 RBBP8
ENG TGFB2
ABL1 FYN
SHBG CD177
DDOST TMBIM4
TH1L TSG101
PAK4 DLST
ESR2 NCOA3
TNNT1 WNK1
ZW10 TSC22D1
PLSCR1SRC
NCR1 FCER1G
RAE1 POLA2
TNFSF12 TNFRSF12A
PKLR KIF23
HIF1A EGLN2
KIAA1377 GIT1

EDA EDAR
CDK1 RUNX2
DVL3 C16ORF48
RXRA NRIP1
RAB9A RHEB
ABL1 DOCK3
PRKAB2 ULK1
TGFB2 FMOD
PDCD6 SH3KBP1
CTNNB1 RPS27A
FN1 COL4A6
BRF2 FANCI
AFF3 WNK1
BRF2 ATAD3A
CCDC85B TUBGCP4
TUBGCP4 RPRD1B
GNGT1 GNAS
ATG12 IFIH1
MON1BVPS11
ERBB2 PLCG2
SNAP23SCAMP2
HSPA5 TNFRSF1B
DMPK UBQLN4
STAT5B ELP2
RELB SMARCD1
MON1BVPS16
MAP3K3 PDRG1
BAI2 STARD13
PSMA7 PSMB3
PRC1 KRT20
SETDB1 CCDC106
TP53 ANK2
MAP1B STK4
ADRB1 DLG1
TCEB2 CISH
HDAC1 GATAD2A
USP5 TNFRSF10D
PRKACA SPTBN1
POLR3G POLR3C
PIK3R1 SOS2

CCNB1 FOXM1
AGTRAP PBX3
ABL1 ZAP70
ITGB7 TLN1
PTN CHD3
ORAI2 MED31
MPP5 PARD6B
GP1BA YWHAE
USP14 USP7
RNF40 NCBP1
APP COL4A2
FOXRED2 SEL1L
MSH4 MLH1
UBE2D1 RNF185
SARS UBA5
ORM1 CCR5
TGFB2 AP2B1
STRN3 MOBKL1B
ATN1 PLEKHA5
PIK3R1 SOS1
ERBB2 PTPN18
PSMB5 PSMD6
KTN1 PLEKHA5
MAP2K7 SYNE1
A2M UMPS
SCAND1 NFE2
RZR3 RZR2
GABARAPL2 NSMAF
GADD45G HAP1
CDKN1B TSC1
HLA-C CALM2
FBL BAZ2A
ITGB7 RABGAP1
ATG7 CLN3
EPB41L2 PRKCH
ARPC5 MAPKAPK2
ATG12 SNRPB2
CUL4A COPS3
APAF1 HSPA1B
CSNK1A1 AP3B2

YWHAZ LMO7
EIF3A EIF3L
CTNNB1 TOB1
YWHAQ MAGOH
RAB11FIP4 RACGAP1
UBE2E1 RNF114
DRD2 KCNJ5
ZW10 MAD1L1
SLC25A37 EWSR1
DRD2 KCNJ3
PIP5K1B BTK
GTF2E2GTF2B
NUP93 PHB2
COPB1 COPZ1
RAE1 NUP93
MYD88 TLR10
SMAD7 RNF111
PIK3R1 ARHGAP1
EIF3B USP3
RAB11A RAB11FIP2
UBE2E1 RNF115
ARF6 NUP93
C2CD2L EPB41
BMPR1B RAN
AGT CTSG
IL17RB IL17B
HIST1H1B L3MBTL1
ABCD1 ABCD2
MELK ZNF622
SH3GL3 CALCOCO1
ACTN3 MYPN
RPS6KA3 HIST3H3
ETS1 DAXX
EGFR SLA
DAXX MYH15
HGS RAB14
CDKN2A CDC5L
GABARAPL2 TBC1D5
NONO ZNRD1
RABGAP1L RABGAP1

RELB TIMM50
IVL SPRR3
SNAP23STX18
ATF7IP ZNF350
FANCA TOP3A
STAMBP ALAS1
SP3 GABPA
FYN SNX17
C3ORF26 HES4
GSK3B GEMIN4
PLCG2 GAB2
EXOSC5 MPP6
CASP3 BMX
MAPK10 COPS5
HSPA4 PARK7
SUV39H1 RB1
HOMER1 TRPC5
ARRB2 ARF6
GRB2 SPARCL1
RPS6KB1 MXD1
KRT15 LNX1
PPIB USP21
ABL1 RAD52
LRP6 RPS27A
CAV1 AQP3
KRT34 USP15
RHOT2 TRAK1
VPS41 VIPAR
NIN BICD1
NFKBIE HDAC5
HDAC4 RUNX2
LRP6 RPS27A
FAF2 FAF1
ACTG1 PPP1R9A
BEND3 USP21
HOXD4 RXRG
YWHAB CSNK2A1
PLSCR1NOC4L
FASLG SNX9
DTNB KIF5A

G3BP1 TRAF6
TRIM37 FXR2
MAP4K3 ITSN2
CRK GLTSCR1
BTK DAPP1
CCT4 PPP4C
PTPN3 VCP
JUND MAPK1
SLC9A3R1 PIK3CA
RAB4A STX4
NADK LNX1
HDAC4 CACNA1C
SNAI1 HOXD4
DCAF7 YWHAG
UPK1A UPK2
A2M NANOS3
VCL CLTC
ATXN3 KCTD10
PARP1 SUPT16H
ATG13 GABARAP
RUVBL1 TRRAP
LNX1 INPP5K
HIST1H4I HDAC5
SH3RF1 MAP4K3
APPL1 TRAF2
EIF1B ATP5D
PSIP1 SRSF1
SMURF2 RASL12
EIF1B DDT
CAPN1 PALB2
PRKCG TIAM1
TP53I3 FUNDC2
SNRPF PHLDA3
PRSS1 SPINK5
TTR ST3GAL3
PAX8 WBP2
RPS6KA2 BAD
CAPZA1 UIMC1
SOCS1 RELA
RAB5C TRAF6

EPOR PTPRO
ELP3 SMURF1
LYST MRPL17
BCL2 PML
FGR PTK2
USP19 SRPRB
STK3 MAP1LC3B
PPP6C TBK1
MCAM PTK2B
PRKCSH TRAF6
ATF3 ID3
IKZF3 HDAC5
PRPS1L1 GORASP2
SLBP ZNF473
IFNGR1 RAC1
FOS RGS7
RPS5 MAP3K14
ETF1 GSPT2
KHDRBS3 LNX1
SERPINH1 UBQLN4
SMAD6 YAP1
CUBN LRP2
MCM6 ALS2CR11
NFKB2 SIN3A
DPYSL4 DPYSL5
ADRA2A PRKCD
TLR4 SYK
YWHAG RASAL2
SMAD7 SMAD3
PGAP3 CSNK1D
ZRANB2 U2AF1
HLA-G LILRB2
PCM1 ING5
YWHAG BAD
XRCC5 COIL
ARL1 C20ORF24
MTMR9SPG21
WBSCR22 FOS
SOX8 HHEX
HADHA USP49

RAN XPO6
DSTN TNIK
YWHAB CWC22
AKAP9 TNIK
MAP1B MAGOH
TLR2 TRIP6
TOP2A YWHAE
CLSTN1 KLC2
TYK2 GNB2L1
HLA-B TARS
CLSTN1 COL17A1
RRP1 LYAR
GAS7 NCKAP1
EIF1B CMPK1
TRAF1 CASP8
EIF1B ECHS1
MCM2 MCM6
KCTD10 USP25
IL16 USHBP1
PLD1 PIP5K1A
TIPARPXRN2
POLR3D HNRNPAB
SSB H2AFX
CALML5 MAGED1
PSME3 UBE2Z
SMAD9 PSAP
KAT2B SIRT1
YWHAE KIAA0232
PTGFR PTGES2
PPP6R3 USP49
CCDC85B RIBC2
MYC TAF9
VAPB OSBPL9
CACNA1A PPM1A
HLA-B VARS
MAP2K1 CPNE1
SGK1 PAICS
ATG12 ATG5
GFAP PDLIM7
NFKB1 EEF1A2

RFXANK DCTN1
ESR1 PPARGC1B
ATCAY STUB1
RNF152 UBE2W
SMARCA5 RSF1
RAB25 RAB11FIP1
SEPT2 STX1A
KHDRBS3 BAHD1
PPM1G USP7
UBE2V2 ZNRF1
PPP2R1B PPP2R5C
SETDB1 BTBD2
PTPRB CNTNAP1
TSC22D1 SLC25A10
YWHAG COPS5
TRIP6 FAM46C
USP19 TNPO3
JAK1 INPP5D
MLH1 PRKDC
RPN1 UBQLN2
TF IGFBP1
IRF8 ZBTB17
EGFR SHC2
TP53 MLL5
ZEB2 SMAD3
MORF4L2 MRFAP1
CASP3 MAP3K14
DLEU1 UTP14A
KPNA3 AICDA
POLR2L CCDC85B
ESRRA APC
SMAD9 ASH2L
YWHAZ PKP2
AQP2 RPS27A
HERPUD1 USP7
GTF2F2 MSX2
IRS1 GRB10
CSPG4 ATF7IP
SHC2 NTRK2
MYOD1 ELSBPB1

DKC1 LYAR
SMURF2 NKIRAS1
PCSK6 RCN3
ATF6 NFYA
RB1 PPP1CB
CHEK1 DNMT1
GRIA2 NSF
MYC RUVBL2
STAU1 MAPT
HMGA2SMAD5
LMO4 NFYC
LRPAP1 LRP8
USF1 BPTF
PSEN2 FBXL12
GPI IGFBP3
SET CDK5R1
FXR2 ZSCAN1
BCL6 CHD3
RB1 PPP1CA
JAK2 STAM2
MAP2K4 MAP3K1
THOC7 NIF3L1
STK19 SLC29A1
TRAF3IP1 CDC5L
RELA ZNF277
NGFR MAPK1
RBBP6 ANAPC16
SMARCA2 BAZ1A
FAM40B STK24
IKBKE EIF3M
HTN1 MUC7
EGFR AIDA
BMPR2 LSM10
SLC34A1 SLC9A3R2
EEF1A1MYSM1
SAP18 TADA3
KPNA3 CDKN1B
ARRB1 RALGDS
EP300 TAF1B
DAND5 GABPA

WDR61 RIPK3
LYN PIK3CG
H2AFX UIMC1
SOD1 HECW1
ZBTB16PGAM5
ATN1 CENPJ
RNF216RNF11
GBP2 HSPE1
ADAM12 FSTL3
NCK2 RTN4
HMOX2COPS6
POU1F1NR1B3
EIF1B MTDH
TRAP1 TLR1
BRCA2 BCCIP
HSPA4 TTC1
EZR SDC2
CTBP2 KLF3
IGF2 VTN
SKIL MACF1
MYC RUVBL1
EGFR HBEGF
PTP4A3EPPK1
MET GLMN
WWP2 SCNN1B
JAK1 STAM
SETDB1 QTRT1
FOS TUBB2B
CCNA1 TRIM28
HSPA9 HSPBP1
NFYA SRSF1
RAD51C RAD51
THRB NRBF2
MYO1CCIAO1
CECR1 SRRM2
MCRS1 DAXX
SYN1 MAPK3
APP ADAM17
SERPINB9 CRMP1
VIM C7ORF36

NCK1 DRD3
DRAP1 TAF9
HNF4A PRMT1
DAND5 KLF10
SESTD1PLEKHA5
TRAF4 SMURF2
RB1 RBBP5
ARIH2 UBE2R2
APEX1 PAK2
MARK3RASGRF1
VHL MRPL32
DMRTB1 PRMT2
FYN CSF2RB
DHX16 SRRM1
TXLNA IKBKG
KIAA0090 TMBIM4
SRC ASB16
TRAF5 TNFRSF13B
HDAC3 L3MBTL2
GABARAPL2 STK3
CEACAM5 EWSR1
HMGB1 CUX1
G3BP1 USP10
DAND5 REST
GNA11 TRPC3
UBAC1 MYH2
PFN2 RAP1GAP
POLR2I WDR48
RPS27AMST1R
NFKB1 BANP
GSPT1 PRKAB1
EPS15 UBE2D2
TXN YWHAZ
CUTA PINX1
RTN1 PLEKHF2
IGHG1 IKBKG
ARHGEF5 MED28
TP53BP1 DCLRE1C
RUVBL1 TAF9
CDC73 KIAA1549

POLR2B MED9
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JAK2 IFNGR2
PRKCZ TIAM1
NDRG1 RUVBL2
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CDKN2A UBE2A
TCF4 RNF138
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FANCA BRCA1
MCRS1 C19ORF50
CENPA AURKB
NCK1 VPS13A
FANCA BLM
XIAP BIRC2
CAPN1 CASP14
F8 ADAMTS13
VTI1B STX8
TJP1 GJD3
STAT6 ZBTB2
PIK3R1 GABRA3
ARNT NCOR2
HIST1H3J MSL3
RB1 DNMT3A
FBP1 ASCC2
PRDX2 IFIT5
CCNA1 GPS2
A2M MLST8
PSME1 USP22
MNT MLX
CRKL ARHGAP32
ADAR UPF1
CASP4 UBXN1
FYN TYK2
CTBP2 AKTIP
ATXN1 USP54
NFKBIE HSPA1B
CEACAM5 HNRNPM
FEZ1 DISC1
ERBB2 RASA1

POLR2C RPAP2
IL7R TSLP
PRKCD RUNX2
SGCG SGCD
PSMD10 RELA
A2M TRAPPC5
AFF1 MLLT1
HDAC1 DZIP3
L1CAM ANK2
EPS8 SHB
ABLIM1 KCNJ12
AKT1 NCOR2
CSTF2 CHD3
BAG3 UBE2I
UBE2H MARCH2
IRF5 MYD88
KIAA1377 RUVBL1
SNRPF LSM5
DNAJB1 MAST1
RUNX1 TLE2
SOD1 DNAJB1
RUNX1 TLE1
SUV39H1 HDLBP
ZBTB16DPM1
YWHAE ADRM1
PKM2 PIN1
HOXB2 MNDA
UBE2D1 RING1
CNTNAP4 MACF1
HDAC3 SAFB2
EPB41 DLG1
HSPA5 TRAF2
SYTL2 NRXN1
DCN COL1A2
MTA1 SH3GLB1
MAPK10 CREBBP
TBCA TRAF6
SERBP1DAXX
PIK3R1 GLTSCR1
GPR143 SUCLG2

SKIL TRAK1
PMS1 IPO9
DNAJB6 HDAC4
CIC SEC62
PMEL PRKACA
NAPA VAMP8
HLA-A ERBB2
ATP5A1 YWHAG
SFPQ SRRM2
CHD1 ARRB1
RPGR SLC25A10
MAPK8 TFCP2
DYNC111 DYNLL2
TADA2A NR3C1
IL8 CCL4
WWP2 SCNN1G
NCK2 PDGFRB
FES PIK3R1
TCEA1 TCEA2
EIF1B VAMP3
HNF4A PNRC1
PRAF2 CANX
PPP1CAPRKCD
MED24 MED26
ARHGDIA RHOB
RHOA RHPN2
CHRNB4 CHRNA2
AKR7A2 HLA-B
TP53 ASPM
TOX4 HIPK3
IGLL1 MYOC
GCN1L1 TNFRSF14
CDKN2A ING1
HNRNPH3 ANXA11
RPS27AHIF1AN
MLLT10 SMARCB1
ECD HSP90AB1
HDAC2 SMARCC2
FXR2 NONO
NFKBIE TUBB

PLCG1 GPRIN1
MYOG CALM2
YWHAZ MADD
TRAF2 CCDC33
HNF4A SREBF2
MLEC TRAF6
CHGB ATXN2
UBR4 MCRS1
CRP LEP
VAMP2 STX1A
MT-ND5 GLUL
HNF4A FOXO1
NF1 SMAD4
EMD COPS6
UBL5 CLK4
RALA RASSF5
FAS BRE
PCNT PCM1
SKIL THSD7A
SEC61A1 SERP1
SCAND1 ZNF629
IKBKE SEPT2
FLNC HIPK3
CPE ROBO2
AMH AMHR2
RPS27A IRAK4
GTF2H1 FUBP1
PIK3CARASD2
BAG6 UBQLN4
CBX4 HIST1H3J
TP53 SMARCA4
ANK2 OBSCN
MTHFD2 PARP3
ERBB2IP PKP4
KRT15 C1ORF216
MYC UST
IKBKE PSMD6
HAX1 TSC22D1
FBL RELA
LRRC68 BEND7

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TP53BP1 USP28
MMP1 CMA1
PTP4A3 FANCI
MED24 CYP27B1
PTP4A3 ATAD3A
XRCC5 BRCA1
NAA38 EMD
EIF1B TBCA
RPS6KA5 CREBBP
HSPA4 TAB1
CHEK1 RAD51
SMC2 TFE3
PYCR2 CIC
EIF4E RPS6
CDC7 CDK2
RALA CNKSR2
KHDRBS1 CREBBP
CASP3 RNF2
TANK HSPA1B
PRPF6 AR
TNF PRTN3
VCL CORO2B
AKR1B1 SMAD1
PTP4A3 DNAJC11
CENPA CENPN
LTF LIPA
CNNM3KRTAP4-12
RAMP3 CALCR
HGS STAM2
MYL5 IKBKG
ITGAM IRAK1
EMD DPPA4
UBE2N RNF43
ACTN1 TTN
AHI1 SMYD2
RPAP2 PIH1D1
CREB3L3 CREB3L1
SF3B3 TNFRSF10D

UBR5 UBE2E1
ERC1 KBTBD7
DAB2 DVL3
PAK3 GIT1
VPS72 EWSR1
ABL1 ABI1
E2F1 SP2
PARP1 PARP3
MYST2 VIM
TRIM27CHD4
YWHAZ CGNL1
RUNX1T1 NCOR2
FLNA DRD3
SHBG ATP5A1
SIPA1L1 NRXN1
GSPT1 TRAF6
TRIM63GFM1
RNF183 C19ORF50
CACYPB TNIK
PTPN6 LILRB2
DYNC1H1 BICD2
CSNK1A1 SYT9
GFI1B IFFO1
TCEA1 SF3A1
CDKL5 ABL1
STAT4 MAPK14
TGFA ADAM17
TH1L PHB2
NFATC1 PARP1
ARF6 SEPT2
WDR5 PASK
NCK1 KHDRBS1
CTTNBP2 STK24
ACAN TNR
YWHAE TSC1
SLC1A2GRB2
PES1 WDR12
ITGB3BP FUNDC2
PPP1CCMAX
TJP1 CGN

BAG6 C19ORF10
PCNA POLD2
SF3A2 C19ORF43
PRKCG CYTH2
BCKDKFAM98B
PPP4C PPP2CB
EGFR PAK1
KAT2B CDT1
PFN2 DLST
PIAS1 AKT1
ZFP36 EDC3
PF4 FGF2
PPP1R8 EZH2
HLA-C SEC14L3
IKBKE EIF4H
MAP2 CFBF
PIP5K1C AP1B1
CBX5 TRIM28
VIM KIF15
CSNK1E AXIN2
SMAD7 ITCH
PPP2CAFAM40A
FYN ATXN1
RBBP5 ASCL2
CDK2 MSN
HSP90AB1 TSSK6
IKBKE KARS
TUBA3C IKBKE
MED24 ESR2
SNAP23NSF
RNF128 UBE2T
KLF11 MAPK1
PLAT MAPK1
UMPS CDC42EP3
POLD2 POLDIP2
TIMM17A PAM16
SYK PIK3AP1
ADRBK1 GRM1
ARNT HEY1
GSK3B AKAP11

GRB2 ITIH4
SVIL WNK1
TNK2 SNX9
SULT1E1 ENOX1
HAPLN1 ACAN
KCNH4 HDAC1
SUMO2 RAD54L2
RILPL2 HEXDC
MSX2 ZBTB17
POLR2E ZSCAN1
RPS9 MEPCE
ZIC3 GLI3
HSPA5 ERP29
SIP1 DDX20
PRPF4 SNRNP27
CIAO1 NDUFA9
EIF3I EIF3A
EGFR AR
ATG12 ATG10
MAP3K10 RACGAP1
EED EPC1
CHD8 CTDP1
PRKAR2A RAB32
PHACTR2 GRB2
XRCC5 POLE
ARNT TRIP11
MAPK3 PTPN5
TRAF3 ZMYND11
UBE2D1 OTUB1
CBFA2T2 FBXL19
KBTBD6 KBTBD7
SHC1 MAPK14
SLC16A8 RAB1A
IKBKE PDIA6
EIF2B5 EIF2B3
SMC2 ARF6
CDK5 MEF2A
MAGI3 FZD4
CRH CRHR2
RB1 MRPS18B

SUMO2 ZNF451
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NPHS1 MAP2K4
UBAC1 MCTS1
GIPC1 ITGA6
UBE2V2 RNF2
ATXN7L3 SECISBP2
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COL8A1 KRTAP4-12
PTPRE GRB2
HNF1A RAC3
HNRNPU PTPN11
HOXB6 PKNOX1
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HTR2A PPP5C
SRF CASP8
EIF1B PPP2R1A
LIN7A ABCA1
MYC KIAA1967
GRB2 SMAD3
S100P SUGT1
NFKB1 UNC5CL
RIPK2 TRAF1
PIN1 UBQLN4
NR3C1 RXRB
ZBTB16CEP70
CENPA RING1
MCC WDR5
TRAP1 SF3A2
CLN3 ILVBL
SLC15A2 PDZD3
HDAC3 HDAC10
HLA-B SEC13
NFKBIE PPP6R1
ELANE CSF3
RAF1 MAP2K2
PRKCG PARD3
MLH1 NONO
EXOSC4 GTF2IRD1
CD3D CD8B

ITGB7 DOK1
SNAP23ABI3
YY1 HDAC5
RAB1A RFK
ADRBK1 GNAQ
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GSK3B CDX2
VIM FUBP1
POLR1A POLR2E
CSTF2 UBQLN1
RPS6KA5 CREB1
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MAPK9 XPO7
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PAXIP1 SH3GL2
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SMURF2 LMCD1
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BCAR1 CSPG4
PJA2 UBE2W
KIAA0240 CDC5L
CNP MTNR1A
TRAF2 TAB3
ACCN1 PICK1
ME2 USP15
ZW10 BUB1B
CDK2 TBCA
DAD1 IKBKE
PSMD1 PRKAB1
CNOT2 CNOT8
AXIN1 RNF111
SGK1 LETM1
NR1H2 GRB2
TXK YTHDC1
A2M PAEP
EHD4 PHLDA3
GABARAPL2 CALCOCO2
MRPS14 USP42

FAS INSL6
CTBP1 ZFPM2
SRC CSNK2A1
KDM6ASIX4
RPF1 UBE2L3
DLEU1 KIAA1377
NFKB1 PLD3
EGFR YWHAZ
UBE2D2 UBA6
UBE3A ESR2
TSHR GNAS
ABL1 HOXC8
AXL TENC1
SNAP25RIMS1
TNFRSF10A CASP8
TRAF5 SMURF1
RUNX1T1 THRAP3
RUNX1T1 WBP11
SALL2 CEP76
NFATC1 PRKCA
ZFYVE9 FOS
GLUD1 MAP3K14
SMARCA4 HIC1
RPL35APINX1
CDC25B BRSK1
ACTN4 NEB
APC ING5
PLEKHF2 MBIP
RPL5 UPF2
CCNA1 HIST1H2BA
PSTPIP1 RPL37A
CYP27B1 NCOR2
SMAD5 SUV39H2
LAMA5 BCAT2
MAPK9 BAZ1B
DLG2 CNKSR2
SSX5 PCBD2
TAF1 MAX
BMI1 MLL
PSMA3 GF11B

LZTS2 RNF32
ABHD16A TMEM147
NAPSA YWHAZ
RUNX1T1 SIN3A
TGM2 EIF5A
MLH1 NCF4
EIF1B AIMP2
APP CNTN4
RAB3IL1 RAB3IP
HMGA2PRMT1
STAT5B PTPN11
UBE2B UBR4
CCDC85B RALYL
SMC1A NEK6
UNC119 TP53BP2
TRAF2 C5ORF55
CEP55 ECSIT
VHL MCTS1
APOB LRP2
GFI1B ATXN2
KIF1C YWHAB
BCL2 TOMM20
FLII OPTN
CXCR2 ADRA1A
AR ATF2
SUMO2 LAS1L
HR HDAC1
MYO1DMAP3K1
AP2B1 TUBGCP4
ARFGEF2 ARFGEF1
EFNB2 PTPN13
DNALI1 ABCF3
GH1 JUP
PDZD2 PKP4
POLR2B WWOX
PARP1 ZNF423
DNAJB1 DNAJC3
TP53INP1 HIPK2
SMAD4 NUA2
ADRBK1 MDM2

YWHAG KRT35
YWHAH NCOA1
PPP1CAPLCL2
TMED10 PSENN
ITGAV AZGP1
TARS IKBKE
CDK2 PPP1CA
FOXP2 FOXP1
FATE1 RNF183
HSP90AB1 YWHAB
CHD4 UBASH3B
MAPK1 NTRK3
DHX9 MAP3K1
RABEP1 RAB33B
TNFRSF1B RCN2
ITGB2 NDUFA2
TP73 TP53
CHRNA4 CHRNA3
TBP ZNF76
CYP27B1 NR2E3
ULK1 ATG4B
H2AFX CALR
RAD52 SUMO1
RAB27B SYTL1
NCBP1 SRSF9
GEMIN4 GAR1
ERGIC1 ERGIC3
JUP CDK5RAP3
GRB10 ABI1
ELANE SERPINB13
MAPK3 MAP2K3
HSPA4 PHLDA1
CHD1L SUPT16H
MYO10 SIRT1
SLIT2 ROBO2
GNB1 GNG13
MAPK9 H3F3B
PSMD2 NEK6
SUMO1 C11ORF65
ASCC2 MED31

JUP DSC2
F2 PROC
WBP4 SCAF4
NCK1 SPEN
TNFRSF17 TRAF2
ASCC2 RNF11
SOCS3 INSR
RAE1 POLR3E
UBE2I SNIP1
HSP90AB1 CHORDC1
GJB1 GJB2
PSEN1 PSENEN
GABARAPL2 KHSRP
TP63 DAXX
HSP90AB1 TBK1
MLL E2F2
NFKBIA MAP3K3
MEN1 RPA3
EPHB2 ARHGEF6
SUMO2 SSRP1
KDM1A POLR2B
APBA2 USP20
EPHB2 PICK1
PSMA3 NFKB2
ZNF397 ZSCAN30
SLC38A1 CCDC148
CCDC85B CARD9
SDC3 TUBB
UBE2B CRMP1
NCK2 AXL
MAP2K5 PARD6A
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UBXN8 GTF2F2
YWHAG HECTD1
ARRB2 PDE4D
XRCC6 NAA15
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TP53 CCAR1
BRMS1L INGX

VAV2 BIRC6
HINFP DPEP2
SYK GAB2
PAK4 YWHAZ
PIAS1 SATB2
INHBA CHRDL2
PARP1 IKBKG
STRN3 TRAF3IP3
CDK9 EXOSC5
COL9A1 COMP
NFATC1 MAPK14
BAD EWSR1
MYH11 DAXX
NCS1 PI4KB
NASP LUC7L2
FAT1 HOMER1
RUNX3 SMAD2
RUNX3 SMAD1
KDM6AWDR5
PFDN1 YEATS4
NUP62 RANBP2
GFI1B ZNRD1
TROVE2 TRIM21
MAGI3 VANGL2
HSPA4 MAP3K3
RAF1 INTS10
AKT1 UXS1
FBXW11 BTRC
RPS16 ATG5
NR3C1 HSP90AA1
NFKBIA BARD1
NUP62 NUP153
H2AFX BRCA1
SLC38A1 CCDC90B
ZNF250 DPPA2
SLC38A1 NIF3L1
ZBTB8B TRIM41
TK2 TP53
HDAC1 CKLF
NPR1 PSEN1

PARK2 TUBG1
GYG2 GYS1
PIK3CASH3KBP1
TTC3 ATF7IP
UCHL1 UBE2I
CCNA2 CDC25C
GHR STAT5A
TCEA2 DCAF10
RPA1 RPA3
RPS27ABRE
TRIP13 LOXL4
HIST1H4I SUV420H2
LRP1 USP3
JUP DSG1
UBE2H RNF166
PGR MAPK1
PIK3R2 CSF1R
RASA1 KHDRBS1
CLP1 TSEN34
BECN1 NRBF2
CD99 KPNB1
F7 UIMC1
CD72 SEMA4D
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FBL PACSIN3
HSP90AB1 NFKB2
PRKACA PPP1R8
FN1 FYN
CCBP2 CCL27
UBE2M CPNE4
SMARCA4 MYOCD
C1QA C1QBP
PLD2 AMPH
PPP1R15A MYC
CDC25A YWHAB
CALM2 MYO9B
GSTP1 MAP3K5
EMID1 AKTIP
GPR135 MAGED1
LYN BTK

CDK1 TSC1
HSP90AA1 ST13
PPM1D CDC5L
TSC2 FBXW5
ITIH1 PIK3CA
HNRNPK RBM41
OS9 ZNF512B
COL2A1 ANXA5
MAP3K3 PIH1D1
TFEC MITF
SMARCC2 INGX
ST13 BAG1
TP53 CDK2
ARF6 MPP5
CDK4 ACTR3B
FAM107A PPP2R2A
SOX9 SMAD2
SRC YTHDC1
CBL PTPRO
ATF2 MAPK14
EFNA5 LGALS12
ABL1 NKX2-1
IRS1 CBLB
AP4E1 AP4S1
CTNNB1 STK39
VWF HSP90B1
SRC ACTA1
ZNF217 CTBP1
SRC TAF15
MYL6 IKBKE
CYP27B1 CCND3
PSME3 NUDT18
CSNK1A1 FADD
GOT2 EPB41
ARL3 ARL2BP
IMMT FUBP1
UNC13B SPTBN2
CYCS SAFB
ARHGEF7 SHANK2
CSN1S1 TTBK1

SH3KBP1 WNK1
AIMP2 C19ORF57
IRF1 IRF9
GP1BA GP5
MMP2 ACAN
AKT1 PPP2CA
SNCG MAPK1
SLC6A3PICK1
PTGES3FTSJ1
CBLB GORASP2
UBC MUL1
ERN1 RPS27A
VHL FZR1
RAP1A RABAC1
EGFR ESR1
DRAP1 FEZ2
CDKN2C QPCTL
TP53 UBE2A
PRKACA GJA5
RET PDLIM7
RAN SIN3A
SRY EP300
MTHFD1 TNIK
SKIL TRIM62
PRNP PPFIBP2
BCAR3 PCBP1
TCEA1 SF3B3
ZNF217 EHMT2
PDCD6 CPNE4
PRPSAP1 PLEKHF2
YWHAQ SLC8A1
DAND5 HNF4A
S100A1 PLB1
GIPC1 PDXDC1
LCK PRKCQ
MCM2 HIST1H4I
FOS RB1
MAP4K2 MAP3K1
PPARG SMAP2
THBS1 TGM2

UBE2E1 NDUFB9
CD2BP2 SNRPF
APC THAP4
MAPK14 JDP2
CLU GRB2
UBE2G1 UBE3A
GPHB5 GPHA2
SUV39H1 MYOD1
REM1 CACNB2
TAF1B THAP7
RDX ROCK1
TH1L COBRA1
HLA-B PAICS
CPNE1 PITPNM2
SNCG TIMP2
CUL1 SAP130
FMR1 CYFIP1
RPS27AABI2
CCT8 RFWD2
TP53 CUL9
PHF3 WNK1
NDUFA6 TBPL1
HDAC1 CIR1
TEC RAC1
PFN1 XPO6
EMD ACTG2
ANXA6 S100A1
TAL1 SSBP3
YWHAZ SSH1
BAI2 SHANK1
NUP62 NUPL1
DLG2 GLS2
PRKCB RGS2
FUS GSK3B
ERCC2 TRIM25
VCL PXN
SERPINA1 DERL3
E2F7 E2F8
MAP2K2 KSR1
RELA NFKB2

ABLIM1 BEGAIN
ORC5 ORC6
UBE2E1 TRIM39
MATN2 FN1
CMPK1 YWHAZ
POLA1 POLA2
PCNA MYBBP1A
MAPT SLC1A2
ZBTB43MCM10
HLA-C KIR2DS4
PIN1 GPHN
ADAM19 ABI2
ATP5B YWHAG
TSC22D1 PHB2
EXOC2 SERGEF
TJP3 FASLG
VHL TMC01
TCF3 TCF12
LRRC59 FTSJ1
GATA2 ZBTB16
SHC1 AXL
CAPN2 PTPN1
SOAT1 HLA-B
CEBPB NCOR2
CSNK1A1 EIF2B5
COL4A1 HABP2
PIK3C3 CLPTM1L
GADD45A MAP3K4
EGFR HSPA4
MET SRC
FXR2 ZBTB8B
AGT PRCP
ACTN1 CAMK2A
TRAF4 SMURF1
DLGAP3 PLCG1
NFKBIE NFKB2
CAV1 AKAP1
GTF3C2POLR3C
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HDAC2 ZNF461

NPM1 SUMO2
CFTR SLC9A6
RAC3 RWDD1
CBX5 HDAC1
PLCB2 MAPK14
CCL2 CCL5
CYCS PRKAB1
PRPF6 MYC
SUMO2 SUPT16H
TAF1C RRN3
DR1 NFYC
HSPA5 CASP12
BMPR1B UBE2Z
BECN1 SEH1L
MAPKAPK2 TSC2
EMD SMARCB1
HDAC4 SIRT1
DAGLB PISD
PSMC5 UBE3C
RPS6KB1 MAPK3
UPF1 DCP1A
RANGAP1 CSNK2A1
SRPX2 CTSB
CPNE2 MYCBP
C4ORF41 TECPR1
JAK2 IKBKG
TSC22D1 TOR1AIP2
SNW1 HDAC2
TRIP12 ATF7IP
TALDO1 IKBKE
SH2B2 BTK
SMURF2 CUEDC1
NPY1R LSM7
ROCK1 DPYSL2
MATN2 COL4A5
PARK2 NDUFA4L2
CLDN2 KRTAP4-12
ITGB1 RAB25
MAP4K4 RPLP2
KDELRL1 COPB1

TPO DUOX1
TCEB3B CEP70
PLRG1 KPNA1
AARS YWHAZ
HSPA4 C8ORF41
CTBP1 RBBP8
RYS1 CAMK2G
FBXO11 EFHD1
YWHAE RPGR
CPSF6 UBAC1
HIF1A CREBBP
NFKBIE CLTC
CTNNA1 PPM1A
SEMG1 TGM1
IL8 CXCR2
EPHB1 GRB2
IL8 CXCR1
POP4 RPP38
POP4 RPP30
DFFA NAP1L5
PARP1 CARM1
EHD4 STYXL1
APP TGFB2
PLK1 CLSPN
GBF1 ARHGEF1
SHC1 NTRK2
RPS27A TAB2
CD2 DAND5
HGS VPS37A
MID1 UBE2N
MID1 UBE2K
ITPR3 TRPC6
MMP15 LRP1
LNNA1 RABAC1
MED26 MED15
ACTR8 INO80
ACTL6B SMARCA2
CTNNA1 AHR
VAV2 POGZ
IFNAR2 GNB2L1

SMARCA2 NR4A2
CHD3 CTTN
CARM1 CREBBP
UPF1 EXOSC4
ACTN4 APC
SRC KIFAP3
DOK2 RAB10
PSEN1 MTCH1
MID1 UBE2D3
RLN2 RXFP2
NCKAP1 WASF2
PPP1CCBCL2L1
PLRG1 HNRNPM
GNAO1 PDE6H
CDH5 CSK
SYK BLNK
HGS VPS37C
POLR2L NFKBIB
LGALS3BP TAB2
FPR1 ADRBK1
BSG PAK1
CD151 RNF128
TP53 RAB4A
XRCC5 SIRT6
PDZK1IP1 COPS6
SNRNP200 CIAO1
CCAR1 TRIM63
ERBB2 RIN2
BECN1 SLC27A4
LILRB4 INPP5D
C3 C3AR1
FTH1 MAX
FXVD6 CCDC90B
RPA1 RAD52
DAXX FAM179B
YWHAG ZNF295
SRF NCOA6
BRCA2 PALB2
HIF1A HDAC2
UBE2A ZMYM2

CASP3 PIP5K1A
KCNIP4KCNIP2
CST6 VHL
MAP3K7 VRK2
DPH3 SERGEF
GXYLT1 FBXO11
IKBKAP ELP2
PEG10 ZNF512B
GRIN2D PRKCB
REN PCSK1
IKBKG NCOA3
IDO1 DDX24
ERCC8 CUL4B
YWHAG VANGL2
MAPK3 IER3
SERPINB2 RB1
ADAM17 ERBB4
CSK PAG1
APOL6 PLEKHA5
FRS3 RND1
LCK MED28
RPL7 TBK1
HCK ERBB3
PFKL MAP3K8
XPO1 ARNT
ERCC8 CUL4A
BECN1 DZIP3
RB1 UBTG
APC DST
RUNX1T1 ZNF652
SHC1 HIF1A
C3 CFHR5
SAP30 HIST2H2BE
GAPDHRAB2A
NTRK1 PTPN1
CSTF2 IMMT
EIF4G2 NCBP1
BCL2 PPP2R4
ADAM12 EGF
RPN2 CLN3

MSH2 RPS27A
APC SPECC1L
ERBB2 SUPT6H
ITGB2 CYTH1
HIST1H4I GATAD2A
CDK5RAP2 STK36
IL17A IL17RA
DVL2 SORBS3
YWHAH MED1
SMAD3 SRY
PTP4A3 STRAP
CDKN2B KIAA1377
BCAR3 GOT2
SSX5 ZSCAN1
MAPK8 SMAD3
PRRX1 SOX10
MED16 TRRAP
BTF3 PINX1
FHL3 FHL2
KLHL12 MED28
YWHAH NCOA3
MAPK14 GDF15
MYF5 ID3
UBE2N ZNRF4
G3BP1 CAPRIN1
MEN1 RPA1
INSR SORBS1
ITPR3 ITPR1
S100A9 TOPORS
DHPS NUDT18
PAPSS1 PPP1R16A
TOB1 HNRNPH2
HNRNPA1 ARID2
TUBB4 NFKB2
DDA1 SEPT9
ERBB2 FER
YWHAG DDX17
TNFSF10 CUL3
ALG2 PEF1
TP53BP1 MDC1

DLG4 CNKSR2
SPTBN2 KCNHR4
PTPN1 NTRK3
HLA-A LILRB1
PSEN1 PRKCZ
SMARCB1 SIN3A
WIPF2 WWOX
LCK SYK
RNF166 UBE2E2
GOSR1 PKP1
LCK ZAP70
OLFM2 EIF1
EPB41L2 YWHAZ
MAPK3 CCDC6
ING1 TRRAP
TUBB4 TBK1
MAPK14 DUSP9
NEFM SMAD2
POU2F1NPAT
TP53 ANXA3
HSPA5 SREBF2
BCAR3 IMPDH2
LMO2 LDB1
RAD52 UBE2I
BCAP31 PLP2
KIAA1267 CDC5L
SF3B1 CDC5L
CTPS IKBKE
VCL NDEL1
PKLR MYOC
ESR1 CCNC
EEF1D DGCR8
CLTA CLTC
POLR3D POLR3F
SELL PODXL2
APP DLG4
ESRRB NCOA3
SP100 CBX5
RPL11 MAP3K14
LMNB1 PLEC

HGS VPS37D
PLCG1 PTK2
SMAD9 AFF1
UPF1 ACSS2
CYCS GSTK1
MFAP1 YWHAG
CLDN8 TJP1
RASA1 WWP1
ID2 E2F4
NCK2 SOS1
DKK1 CORO1A
KIF1A GIT1
FHL2 SPHK1
LMNA SMAD3
YWHAB AKT1S1
ABL1 GAD1
ZNF417 KRTAP4-12
IKBKE MAVS
F9 GGCX
SMARCA5 SIN3A
CDK2 RPS16
RAF1 PRKCE
AP3D1 CTNNB1
SUPT5H CCNT1
EIF2AK2 ELF2
ATP7B GLRX
ATF7 PTP4A1
PLD1 BIN1
CFLAR TP53
SMAD9 MAN1A2
RAE1 MIOS
NGFRAP1 PTPN13
IFFO1 GF11B
DNAJB1 TELO2
CXADREWSR1
MCM2 EMD
RALA SMAD4
APOH AKT1
MIB1 SNX5
GSN BCAR1

FOXO3 SMAD3
AR DAXX
UBE2F EIF2B4
GRIN2D CLTC
CS MDH2
TP53 ZNF148
LPA LRP2
MCM5 MCM6
PAK4 RAC1
HDAC1 RUNX3
ZBTB3 LEF1
ST13 WNK1
DVL3 LRRFIP2
PAK4 FGFR2
PFKM MCC
TUBA4A RBBP5
CCL5 CXCR3
MAD2L1BP SETDB1
NUDCD3 KLHL13
DNAJB1 WIPI2
PPM1G TRAF6
HCK ASAP1
ZNF408 ZNF331
POU2F1 HNF1A
LRP8 MAPK8IP1
FN1 GSN
TUBB RELA
MAPK14 ATXN2L
SNCA BAD
LTBP2 FBLN5
PRKCA ARHGEF1
CD79B BLK
NGFRAP1 TRAF2
TP53 MYL9
MLLT6 IKBKG
DLX5 NCOA2
MLANA ITCH
CCDC85B C19ORF25
IRS1 SIK2
ASCC2 PIN4

HSP90AA1 COPS3
HGS LDOC1
CSTF2 DDX1
RECQL5 RAD50
CDKN2D TBC1D17
CYP27B1 NCOA3
CASR PI4K2B
SLC25A37 TCF3
SET TAF1B
SFN TRIM32
MED13L MED28
TUBA1A MARK4
SDCBP GRM3
MAP3K10 PPP1R13B
ABL1 PRKCD
PHF16 ING4
STAT2 HDAC1
MLLT4 PICK1
TIRAP TRAM1
MBP MMP7
MAPK3 NTRK3
GNG11 SMURF1
ATP6V1E1 ATP6V1H
HLTF SHPRH
SLC38A1 VASP
YLPM1 USP7
VPS37DTSG101
DYNLL1 THAP8
TBP DHX9
PMS1 MCM6
RELA REPS2
ARRB1 SREBF2
IDH1 SUMO4
NR4A1 HDAC6
CUTA VHL
MED26 CDK19
CAV1 STRN4
EZH2 H2AFY2
ITGA10 ITGB1
PGR SMARCA1

PSMD7 KTN1
SOCS5 IL4R
ITPR1 RPS6KA2
ESR2 NCOR2
SIX1 EYA1
MEF2A SMAD2
BECN1 PTOV1
NBN ATF2
SIX1 EYA3
MEF2C HDAC7
USP10 GAR1
RPS27A GGA3
TBL1X CTBP1
STX2 SNAP25
RAF1 RASD2
SLC2A1 SUMO1
NEDD9 ELSPBP1
PPM1B FOS
AKT2 CDC37
YWHAG HDAC9
RHO ARR3
DYNC1I1 DYNLL2
RCOR3 NINL
SMNDC1 ITSN1
RPS6KA3 ZMYM5
YWHAG ACIN1
DNM2 MEPCE
HOXA5 FOXO1
LRSAM1 GPR108
MDM4 ARF1P1
EEF1A1 ZBTB16
PCGF2 CBX8
RPS27A WWOX
MYC DCTN1
VHL TBCA
PDPK1 YWHAH
PTN ALK
STAT3 GADD45GIP1
NFYA NFYB
MAPRE1 MTUS2

DHX9 SRPK1
TRIM27UBE2T
RPA2 HNRNPUL1
DMAP1 ING1
TAPBP COPG
BZRAP1 TSPO
SMC1A ATG4C
MYC GIGYF2
SRC SMARCC1
PRKACA PTPN13
TOMM20 RNF144B
STRN MCC
CDKN2A SERTAD1
DEGS1 PYGM
RUVBL1 RIPK3
TRIP13 WDYHV1
CNOT2 CNOT1
MCM7 CDT1
INPPL1 MET
UNC119 QTRT1
GNAO1 RIC8A
IGF1R SLC23A3
VDAC1 HLA-B
NRAS GRB14
PSMB6 HLA-B
HOXB1 PAX6
SHB SLC39A1
SDC3 CTTN
CDK9 HNRNPU
MLH1 RRBP1
A2M HSPA5
G3BP1 UTP18
CBX7 PHC2
CASP3 PRKCQ
C18ORF10 EWSR1
EMD MYO1E
KDM1ACHD3
ATP2B2DLG1
PIAS1 RBBP6
SRC COPS5

CCNA1 LRRC59
GRB2 RBBP6
PRNP ZNF740
RIPK1 TAX1BP1
RALA PLD1
VPS18 UVRAG
NRP1 PLXNA2
MBP MKNK1
ZNF512B KDM2A
PPP1R11 PPP1CB
GSN ARRB1
HSPA4 CHTF18
HNRNPA1 GTF2E2
SRC MAP4K1
MAPK1 PPP2CA
HGS APC
STAT2 SMARCC1
NOTCH1 NUMBL
SLC3A2PHB2
TP53 USP11
ASCC2 POLDIP2
CTTNBP2NL FAM40B
FANCA ATR
DTNB TRAF2
SNRPD2 LSM10
PPP1R11 PPP1CA
MEN1 CTNNB1
GFI1B RAB11FIP4
ATG12 DHX36
RAF1 EEF1A1
SNAP25VAMP8
CLTC RELA
EIF4E RPS27A
GBAS LARS
TP53RKTPRKB
FXR2 ARL6IP1
NDUFS7 ARRB2
LYZ TRIP6
MYST2 PLK1
RZR1 CACNA1S

LYZ NFKBIB
DAND5 BCL6
RALA EXOC7
ATAT1 CDK9
IL18BP IL1F7
APBB1 CYFIP1
PLCG1 NTRK3
FHL2 ZNF408
BMPR1B RPS27A
MYST3 MEAF6
UBC PCNA
CD247 PTPN22
RGR KIAA1279
DVL2 SNF8
ADRA2B EIF2B1
IKZF1 HDAC1
PARD3B PARD6B
SELENBP1 INSL6
ACTB FLII
MDM4 SMAD3
VHL VAMP3
GNAO1 NGB
JAK2 GHR
USP1 RPS27A
PCGF2 PHC2
LLGL1 GABARAPL1
CBR1 VDAC1
ZNF205 CALCOCO2
RIPK1 CASP8
FOS ZNF622
MAD2L1 MAD2L2
SRRM1 CDC5L
TRIM32 PIAS3
MYH7 PLEKHA5
RPL23 RPL11
SPRY2 GPRIN2
MAST1 EXOSC1
CLU PON1
DOM3Z EXOSC7
SMAD9 HBM

CASP7 PSME3
PTPN12 TNK2
IFNAR1 PIK3R1
UBE2W RNF14
YWHAQ KCNK9
CTGF HSPG2
PPP2R1B NFKB2
ANK1 SPTAN1
PTP4A3 MDN1
ADSL USP4
CCL2 VCAN
PPARA MECR
ITGA4 YWHAZ
NUP98 AHCTF1
KCNJ6 KCNJ9
YWHAE YWHAZ
EIF1B RPS9
MAPK6 NIPBL
TAGLN2 ATG5
PPP3CBMLH1
HSPA1B CDK9
FER DNMI
ITCH RPAP3
SOAT1 HLA-C
NFKB1 ELF3
DLST ZHX1
DLX2 DIP2A
HNRNPA1 HSPA9
SAP30 ING1
RPL35AMAP3K1
SETD1A ASH2L
TP53 CCNA2
ASAP2 THSD7A
HCLS1 SSBP3
KHK LYZ
CXCR2 CXCL5
GFI1B KIF17
GEMIN4 PPP4R2
SMNDC1 RNMTL1
FLNB ITGB1

RHOA PLEKHG2
PDE6D RHOA
RAB8A RPH3A
FANCA SMARCD3
CD3E JAK3
ITK ABI1
CBX5 ORC2
AVP AVPR2
RB1 TAL1
LSM3 XRN2
PQBP1 ATXN1
RPS6KA5 BAD
TOB1 HNRNPK
GTF2F2 AHR
MAP1B PCBD1
NUP160 AHCTF1
COLEC11 SAFB
CTNNB1 KDR
CDK5 MAST1
INSR PTPN1
NFKB1 PRKDC
SAP18 SEPT6
CRMP1 CDK5RAP3
TRIM27 EPC1
CASP7 MAX
PPFIA4 CAST
ILF2 SF3A2
MUC1 TNF
SRC DLX4
CCNE2 ORC3
TP53 TBP
STAT3 PTK2
CHGB YLPM1
HGS LYST
GBAS ANKFY1
PPM1B PPP2CA
LNX1 NAGK
UBASH3A ALK
TRIM28 ZNF689
ZCCHC11 TIFA

CDC25B YWHAE
NFKBIE SFPQ
GRAP2 ASAP1
TSC22D1 TSC22D3
ATXN1 IL34
GTF2H3 GTF2H5
GSK3B FOXO1
RAF1 XIAP
SET THAP7
RAP2A RASIP1
MNAT1 E2F1
RB1 L3MBTL1
MED14 NR3C1
PPY PPYR1
IL8 CCL5
PRKCB CASR
APOA1 APP
HGS NMI
CD44 SELE
SUPT5H IK
SETDB1 QTRT1
SLC39A2 SLC39A1
MCM2 RPS4X
SLC7A9DNAJC14
SNAP25SYT9
C19ORF10 TRAF6
OAT ARF6
PRKCSH ARL4D
UBE2D3 RNF165
YWHAG TAF15
PRPF40A SON
SNCA SYK
CLASP1 CLIP2
C1ORF190 PLDN
TIMP1 MMP1
AHR NCOA1
S100P MYH9
MCC TMX1
CD46 CD9
TGFB3 ENG

NR5A2 ALB
YWHAG CPSF3
GABBR2 HTR1A
PSMB10 PSMB3
HDAC4 MEF2C
AVP OXTR
FYN EPHA4
PLA2G4A CASP4
ZNF496 NSD1
TAP1 KRTAP4-12
TRPC3 ORAI1
RAD51 RAD54B
CCR5 CCL13
ITGB3BP UPF3B
CDK2 SMAD3
GRB2 GAD1
CRADDINSL6
RELA TNIP2
GRIA4 CACNG2
ZNF408 DDX56
SFN MDM2
UBE2H FHOD1
FYN EPHB3
XRCC6 PIN1
CCDC85B C16ORF48
RAD23A RNF32
SMAD7 AKT1
MMP7 CD151
CENPA ZFP91
GRIN2D ABL1
TUBB MAP3K14
ZNF263 TRIM41
PHYHIP WDR89
YWHAQ KLC3
NUMB LNX2
CCDC85B C20ORF195
CTSG CAMP
LSM11 LSM10
SET TAF1A
MYB PAX5

SET TAF1C
EGFR HIST1H3J
FCHSD2 HTRA1
HSPD1 SUMO4
CYP27B1 MED16
SOX5 SMAD1
NOL3 FADD
OGT MAPT
XPO1 ATF2
MAPK13 MAPKAPK3
ATP5L EPB41
RGS5 GNAO1
HIVEP1 SMAD3
SORBS3 MAPK1
ECHS1 FTSJ1
YWHAG AKAP13
KIF5B FYCO1
CRK APOL5
CYP27B1 THRAP3
FASLG ITK
PPP1R12B PRKG1
TLX2 GTF2A1L
GOLGA4 EXOC1
RPS6KA5 NR3C1
CSNK2A2 NAP1L4
EMD DPPA4
EEF1A1 PRKCD
TNFAIP3 PPP2R1B
CBFA2T2 RUNX1
ZRANB2 RAC1
CCNH CDK20
CTSB S100A10
SCNN1G NEDD4L
GTPBP3 CIC
NDC80 CCDC53
MME SHC1
PELO PTPLAD1
PCMT1 TRAF6
UBE2D3 RNF111
METTL11A DIS3

SF3B3 SRRM2
STRN3 FGFR1OP2
APITD1 FANCF
TGOLN2 PPP1R9A
PXN PPP2R5C
NRXN1 RPH3A
PRKDC ILF3
PRKDC ILF2
PIN1 NEK6
GNAI3 CD48
N4BP3 USP20
SP100 SNIP1
INSL6 PSPC1
CRK NEDD9
CCDC85B TUBGCP4
BRD4 RFC5
SPRY2 ADAMTSL4
CDC42 TNK2
RFX1 HIVEP2
LYAR TNIK
CTSS CST5
FOS COPS4
FGA CDH5
ST13 SMAD2
CALM2 PLCB3
KRT18 ALK
C3 OLFM4
AURKAUBE2L3
VAV1 KHDRBS1
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SMARCE1 BAZ1B
NRIP1 ESRRG
SSSCA1DSPP
FLOT1 FYN
ATXN1 MTERFD2
YARS GABARAPL2
PIGK ULBP2
COPS6 DDB2
MYL2 USP6
MED6 SREBF1

MAP3K3 PFDN4
EIF3M TNIK
SPERT TUBGCP4
RB1 CEBPB
HCK RPS27A
ADRB2 ARRB2
CCT2 SUMO4
RXRG NR1H4
RIPK2 MYO1D
LYN CTLA4
ZNF193 ZSCAN30
PRKCB ACTN1
CDKN2A MCM2
KRT10 PRKCZ
RNPS1 DDX23
ANKHD1 DISC1
GABARAPL2 VPS35
ATG2A DNAJC7
HSP90AA1 STUB1
IL13RA1 TRAF3IP1
PPIB HLA-B
APP PITRM1
PDIA4 TRAF6
APC EPAS1
DDB1 PRKAB1
NADK NUDT18
LSM3 EEF1A1
APOB SEC61A2
JAK1 PTPN11
FGR YWHAQ
SELENBP1 MED31
MARS MAPK14
MASP2 MASP1
MAP2K2 ZNF385D
ESR1 MED17
DBT ADI1
PGAP3 CSNK1G2
STATH OVGP1
ARMC6 STK36
CYLD HDAC6

TUBB2C PSME1
TRAF2 TNFRSF11A
RARA SIAH1
GTF2F1 MSX2
NFKB1 NFKBIA
ZW10 STX18
CDK1 GORASP1
USO1 GOLGA2
LSM1 PSMB8
UBE2C PCGF3
PRNP SURF2
HIST1H2BG LYAR
TGFB1 SQSTM1
FANCC SPTAN1
DAXX MCRS1
KEAP1 TSC22D4
GMFG FBXL15
PPP6R2 USP49
AP3D1 AP3S2
XRCC6 POU2F1
MED1 MED30
SYNCRIP GRB2
LSM1 PSMB5
GSTP1 FANCC
MDC1 BARD1
SAP30 RBBP7
MTOR TRAF2
UBC TRAF1
DOK2 HSPA4L
S1PR1 CAV1
ZNF207 ERBB3
VIM ACTA1
ACACAILK
UBE2W RNF138
MPDZ PLEKHA1
MCM7 HIST3H3
KLHL12 PEF1
DYNC1H1 TP53
PRKCA SDC2
C7ORF64 GLYAT

AP2B1 RIBC2
YWHAE ERBB2IP
CCDC85B UTP14A
E2F1 DDB2
LIMK1 CFL2
CHD3 HSPH1
SMAD9 CLPB
PPFIA3 PTPRU
MED26 CDK8
USP14 PSMC5
CTTN CTTNBP2
ATF7 TAOK3
PSAP VCP
RAI14 RIPK3
UBE2D2 LRSAM1
TRIM5 BTBD2
JAK2 PTPRC
MPDZ PLEKHA2
STXBP3 STX2
PRPF4 PPIH
USO1 GOSR1
MYOG ID1
MARK2MARK1
TRIM28ZNF224
LGALS12 NUMBL
ALMS1 MEGF10
PRKD1 PPP1R14A
PSTPIP1 WASF1
MYC NCAPG2
HABP4 HMGXB4
C7ORF26 AK5
USP11 PRRC2B
EPB41 TUBA4A
MYC MAX
GFI1B MYH14
NR2C2 TAB1
IL16 GRIN2C
TRAF2 IKBKG
APC CCT7
ATG2A PHB2

MEGF6 EGFR
GABPB2 MAGEB18
SLC35A2 MDFI
RAC1 ARHGAP1
RPS20 MDM2
PEX7 PHYH
PNP NCALD
TOP1 RRP1
BRMS1L SIN3A
CAPNS1 ARHGEF6
SLC2A4SRFBP1
KIT CD81
VAV2 IPO4
IL1B IL1R1
TOP1 NCOA6
EIF4G3 EIF4E
JAK1 BTK
NCK1 NKX2-1
ACTC1 EPB49
CRX MDFI
NR1D1 NCOR2
RB1 PSMC4
YWHAG TTC28
CMTM3BLNK
FOS BTBD10
LNX1 TRAF2
EIF3A USP3
BRCA1 RPS27A
NUDT14 ARAF
CCDC85B SCNM1
SRC ARRB2
ATF2 HIST2H2BE
PRPF40A RLF
DAND5 NR2F1
SNCA KLK6
CBS COL4A3BP
MRPS34 USP42
PLA2G4A RELA
EXOSC8 XRN2
GABARAP RASSF3

SUPT5H XRCC5
TNFRSF14 NCLN
PLG F2R
KDR FRS2
TNFRSF4 TRAF4
FGFR3 RADIL
FBP1 LNX1
SMAD4 RHEBL1
GCH1 RLF
CDK1 PIN1
BIN1 SOS1
PIK3C3 NRBF2
TAF9 C7ORF64
VPS41 HOOK1
PPP2CAHDAC5
KRT18 COL17A1
FDFT1 TMEM43
PGK1 DDA1
MPDU1 MORF4L2
HIST1H1D LYAR
MAPK12 DLG4
PSMC5 TRAF6
HGS EXOC8
AKTIP MARCH5
TGFA MAGI3
KDR ATR
MEF2C TWIST2
PCP2 COL5A1
PRKAG1 FNIP1
SERPINE2 COL4A5
TTN ANKRD2
SF3B1 ARF6
SF3A2 HNRNPUL1
S100A4 PPFIBP1
OGT CSNK2A1
ZNF253 LDOC1
EIF4E GEMIN5
CASP1 CASP10
TNFRSF1B GCN1L1
PLCG1 FGFR4

RGS10 GNAI1
GNB1 RASD1
CLTC GGA1
TGFBR1 SMAD4
CLTC GGA2
SLC38A1 INO80C
HNRNPH3 PIM2
HGS TSG101
FYN SLC6A20
PSMB5 USP14
REST RCOR1
USP45 CORO1C
GABARAP ATG16L2
TMPO AKAP8L
UBE2N DTX1
NCL GRB2
EIF3B EIF3L
HSPA1B SOX9
CBL CD40
CXADREWSR1
GTF2E1PCBD2
SMAD4 SNIP1
UBXN1 USP32
DDX3X TRAF1
BMP6 ACVR2A
PTPRA PRKCD
SMARCE1 SIN3A
PAK2 SORBS1
PPP1R12A MPRIP
COL6A1 FGF7
UBE2N DZIP3
THBS1 COL18A1
CSNK2A2 CDC37
CUL4A RNF7
UBE2D3 MEX3B
FXR2 PTS
ATXN7L3 PICK1
BCR CBL
NCALD CLTC
SERPINB4 USF2

KIF4A BRCA2
NR3C1 PPP3CA
VCP STX5
DDX58 TRIM25
MAGOH UPF3B
AR NCOA6
CSNK2A2 MAPK14
CREB1 FHL3
CSN2 CSN3
ESR1 FOXO4
GPRIN1INA
FGFR1 FGF9
SUMO4 TUBA1C
NCK1 CKAP5
FBXW4 ECSIT
PPIH SART3
CUL4B GRWD1
SH3D19SH3GL1
SH3D19SH3GL3
YWHAG AKT1S1
PTPN1 GRB2
TUBB DPYSL2
DFFA YWHAG
USP36 UTP18
CCDC136 UBQLN4
ANXA11 ALG2
BAG2 TNFRSF1B
A2M KLK13
ETS1 SCOC
TERT AKT1
CREB1 DYRK1A
UBE2L3 MKRN3
PGRMC1 VHL
NRIP1 PPARD
SLC11A2 RPS27A
ERBB2 ERBB4
EDN1 EDNRA
EIF3E MAGED1
TNFRSF8 TRAF2
BRCA1 E2F4

VHL CSTF3
BBS9 TTC8
FANCA AKT1
PSMD8 TRAF6
GNAI2 TUBA4A
STAT3 IL1RAP
MLF1 MLF1IP
MYC CEP57
ZNF646 TRAF2
ETS1 NFKB1
FYN PTPN4
RBFOX2 GLIS2
ITGB1 CANX
MEF2C EPAS1
CBL UBE2G2
GSTO1 UBA5
MYC HEATR2
HCLS1 TRIM29
SLC25A37 TCF4
TMSB4Y EWSR1
CDC42 ARHGAP1
SUV39H1 SMAD5
EP300 RBM14
ZBED1 SORBS3
FYN WNK2
OGT NUP62CL
PHYHIP MED8
SRSF4 SMURF1
STAMPB CLTA
SF3A2 DDX23
LYAR ANAPC2
DVL1 CCDC88C
IMMT NDUFB9
RELB EHMT2
RPA3 RAD51
MX1 TRPC5
SMAD4 FBXO30
HGS CRMP1
EP300 TRERF1
KDR GRB2

ATP2B4DLG1
NIF3L1 TRAF2
SSTR5 ADCY10
USP39 SNRNP40
SHBG C9ORF24
ARF6 RCC2
RFXANK PTC3
COG3 COG4
TRAF2 TAB1
PIM2 IKBKG
CYP27B1 LGALS12
MLH1 MUC2
BAAT SLC7A8
TP53 MYST1
PTP4A3 HEATR3
HP C1RL
FYN HCN4
NCOR1 COLEC11
KAT2A IRF7
USP7 TCEAL4
ADRBK1 MC4R
PIAS4 ZNF512B
AP2A1 DNM2
HTT CASP6
HSP90AB1 STUB1
TPH1 YWHAZ
PNN NFKBIL1
PCBD1 TIMELESS
MAPK1 MKNK2
RANBP2 IFT140
CNTFR CLCF1
UTP14A TINAGL1
FGF17 FGFR4
ATXN2L G3BP2
DTNB PRTFDC1
SYT1 CACNB3
TPM2 EPB41
SGK1 EZR
SMARCA2 NR0B2
RPLP2 PAX8

PRPF4 SART3
PSMB5 TRAF6
TGOLN2 NCK1
PDIA4 PRKAB1
PPM1A ARRB1
CCNK EFEMP2
ROCK2 STK16
SQSTM1 ABHD10
PIK3C2A EIF3A
CPE NTS
PLCG1 IL3RA
XRCC5 APLF
USP11 TCEAL4
HPS6 HPS5
GPS1 SKP2
RPS6KB1 PRKCZ
GNAI2 HSP90AB1
SHC1 STAT5B
F10 TFPI
CD48 BRIX1
AXIN1 SENP2
MDC1 CREBBP
CRK PRX
PPP1CAPHACTR4
CANX SSR1
RHOC VHL
PARD3 JAM3
PDS5A SRRM1
PRF1 CALR
COIL TFCP2
FGF1 FGFR4
UBE2D2 TOPORS
BCL3 RAB9A
IPO5 NUP153
EZR PHLPP2
NR1D1 NR2E3
STX11 SLC38A2
XPOT AIRE
CSK PXN
KLHL24 COPS5

TP53 E2F1
GATA2 PML
SOX2 ALX4
IPO5 RANBP2
ARPC4 CTTN
GHR CRK
MAP2K1 EP300
GOT2 PRKAB1
DHX30 NR2E3
YWHAG TJP2
TCF4 ID4
ADRBK1 NCS1
FCAR PPP2CA
RPL22 IKBKE
FKBP8 MAPK14
PBX1 PKNOX1
ATF1 HNF1B
HTT REST
PSMD14 PSMD6
APC RPL5
XPO1 TP53
TAF1B RRN3
LRP2 AIDA
POLR1A POLR1B
MAP3K7 NFKB1
CTNNB1 TMPO
RBBP9 RBL2
GIPC1 BCR
XRCC6 XRCC4
PSKH1 CDC6
XRCC6 SNTA1
VIM TNFRSF14
YY1 ARRB1
IPO5 SUMO2
PFN2 HTT
ITGA4 ADAM28
UBE2N RNF182
NFKBIE HSPA5
CEACAM1 CEACAM8
PPP2CBPACS1

VLDLR SNX17
RAB5C ZFYVE20
PCP2 YLPM1
SOS2 SH3D19
UPF1 PLEKHB2
CCT5 GPN1
FABP3 PLK1
NF2 PXN
CUL1 CDCA3
XRCC5 SUMO2
EFEMP2 LOX
ATF1 CSNK2B
ZBTB7A HDAC2
PLAT LRP1B
NFYA MT1H
EIF3E TRAF6
ITGAL VHL
LCK ITK
PYGB MLH1
AP3B1 BUB1
PSMB1 PSMB3
PSMB1 PSMB2
ERBB3 RNF41
GABARAPL2 FNBP1
PIAS1 NR2F2
MED18 MED31
MYH10 PAK2
CLTC MAP3K3
MEN1 MLLT4
HSPA1B PEX5
MUM1 MYD88
FYN APOL5
GEMIN7 STRAP
NOL3 SRSF9
ETV6 IRF8
VAV1 SUZ12
E2F1 TOPBP1
PRPF4 MEPCE
VIM RAB8B
NDC80 TOM1L1

F2RL2 CDH5
GNGT2 GNB4
ABL1 COBRA1
ZNF675 TRAF6
EML3 NEK6
PTGS1 NUCB1
EPB41 PAFAH1B2
RPL7 NFKB2
ARFIP1 ARF1P1
L1TD1 ZNF512B
ALAS2 SUCLA2
CACNA1C CABP1
ESR1 MYOD1
AXIN1 MAP3K4
OPRD1 ARRB1
CUL4A COPS7A
TPD52 IKBKE
BRAF PAK2
DET1 RFWD2
PDGFA HIST1H2BJ
MYC DNMT3A
ACVRL1 TGFBRAP1
APOA1 APOA1BP
MYC TAF6L
RELB DPF2
NEB STYXL1
MYC MXI1
IKBKB MAP3K13
DERL2 AMFR
CCND3 CDKN1A
DAND5 POU2F1
YWHAG LRMP
ACSL4 YWHAZ
ABCA1 ARHGEF12
RAE1 POLR3B
PPIP5K2 SUMO1
UBE2M RBX1
FOXH1 NKX2-5
MYC DNM2
PRKCH DNAJB1

PAFAH1B3 UBE2O
ANP32A HIST1H3J
PLA2G4A MKNK1
ILK NOC2L
EXT1 EXT2
GAL GALR1
USP7 CHFR
MEOX2 KRTAP4-12
DDB1 TRAF6
KCNH4 FLI1
USF2 PPRC1
CHD3 HDAC1
NR3C1 PSMC3IP
QPCTL PRKAB1
HIST2H2BE TAF1B
USP1 USP4
ATXN1L NCOR2
ABL1 PTPN18
HSPA1B ST13
RARA RPS27A
MSTN FSTL3
SNRPB DDX20
PSMC3 NDRG1
DLL1 MFNG
PAPOLA HDAC1
MPDU1 QRICH2
PRMT5 SNRPB
PPARG ZBTB3
PHLPP1 DMWD
SAFB2 SRPK1
MET CDH1
DMPK CELF1
ABL1 PTPN4
TGFB3 VASN
NR3C1 SUMO1
DPCD RUVBL1
C1QBP TRADD
MID2 UBE2D4
IL2RG SHB
GYS1 GABARAPL2

PSME3 SMURF1
TRIM24RXRA
TP53 RNF20
RAB11A MYO5B
RASA1 GRB2
SRC DNMI
PSG4 INSL6
MYC IKBKG
TTF1 SMAD1
PIAS4 HDAC2
HSP90AA1 STK11
UBE2H TRIM17
DAXX GTF3C3
VCL SORBS1
NKX2-5CSNK2A1
CEP55 AKAP9
STXBP3 GEMIN5
RPS14 RBBP6
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DAZL PUM2
PLXNB2 PLCG1
UBE2D1 RNF25
ACTN2 TSC2
USP11 OTUD5
LYAR IGF2BP1
COPS6 PHYHIP
UBE2N RNF130
IGHG1 FCGR2B
TUBB GNB2L1
SPTB ADD1
S100A8 IGSF21
RARG ZNF423
ZFP106 WNK1
SELENBP1 USP15
SYNJ1 PACSIN1
PLCG1 HSPG2
CD8A SREK1
TOP3B CHD8
UBE2D1 BIRC2
CSTF2 SYMPK

TPD52L2 YWHAG
IRAK1 NUP98
TUBB REL
VAV2 RBBP6
PAK4 ITGAV
FURIN PMCH
NCK1 AFF2
UBE2U RNF125
CRYBB3 GRB2
POMT2 POMT1
TLR2 CXCR4
SFN HNRNPU
KCNK1 UBE21
CSDA TJP1
PLCG1 ZP2
SSSCA1DOK2
CCNT1 NCOA2
UBE2H RNF114
LAMC1 CCDC53
EYA2 SIX4
EZR CD44
VWF PDIA4
GJA1 TFCP2
SMAD9 SIL1
CCDC136 DISC1
PLEKHF2 RTN4
UBE2D1 BIRC3
SRSF4 SMURF2
SORBS2 CBL
INPP5K NCOR2
LUC7L2 IKBKG
KIT STAT5A
RPLP2 IKBKG
SAP30 HIST3H3
PTPN6 TRAF6
KIT STAT1
CIAO1 FAM96B
TCERG1 HSPA4
FOXS1 RBPMS
HIST1H3J WWC1

BTK MED28
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F10 F7
STAMBP CHMP5
PAK4 GATAD2A
USP7 DNAJA3
GRN HSPG2
CYP27B1 TRRAP
CDKL1 SMURF1
GLUD1 MAP3K1
CDKN1B CCND3
ASGR1 NLK
GNAI3 RIPK3
APC RTN4IP1
PPARG RBBP5
NUP153 SMAD2
GABARAPL2 SQSTM1
PTN PMF1
EGFR CYTH2
ABCA1 MPP6
RNF2 MBD1
MAP2 ACTB
PSMB3 UCHL5
USP45 RALY
CDK14 ACVR1
GNAO1 CRHR1
PCBD1 KIF5A
APC AKAP9
SFN C1ORF106
NCOR1 BCL6
PRKACA MC4R
NCK1 CYFIP2
AGTR1 GPRASP1
MYC RELA
PLCG2 PTPN11
DES SYNC
HNRNPL HNRNPA2B1
CDK1 PTCH1
HIST1H4I HIST3H3
SHC1 FLT4

FYN MAP4K5
PPFIA1 ING4
ENOX2 ENOX1
RPL37APINX1
SYT1 SV2B
VBP1 PFDN2
HIP1 ITGB3BP
CDK9 STK36
GRAP2 PRPH2
PTPRM CTNNB1
ERBB2 PTPRK
FBXL12MAST1
MCM4 CCNA1
PROX1 CREBBP
MARK3FANCF
HNRNPL FGFR3
ERCC2 ERCC3
APOE GCDH
TOM1L1 CCDC47
SUV39H1 HDAC5
VWF ITGAV
CUL2 KEAP1
FYN TRAIIP
YWHAG MAGOHB
EPM2A UBE2D1
PLA2G4A UBXN1
PARK2 CASP8
MYH9 MYOM1
PDLIM4 TRIP6
CSNK2A2 HDAC2
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EEF1A1LAMA4
ITPK1 COPS8
KRT18 PKP2
GZMB SERPINB9
CCR2 CCL13
CCKBR PPP1R9B
MPDU1 PMVK
TUSC2 HSPA4L

PPM1B GSN
SGK1 CBR3
CCT8 PPP2CB
FTH1 MEF2C
SAP30 ARID4A
FTSJ1 RUVBL1
PLCG1 PALM2
MAPT PPP2CB
SMARCA2 SS18
NEFM RAC3
CXCR3 CCL13
POLR2C POLR2B
RPS27AMDC1
FNBP1 MAP1LC3C
FGFR1 EPHA4
PSIP1 MLL
GNAZ DRD5
PPIB FTSJ1
MYCBP2 MYC
HNRNPC PIN1
RNF166 UBE2W
UBE2N MIB1
EZR YWHAZ
TNFRSF1B GBF1
S100A1 MDM2
CASP1 NLRP1
ARF1P1 PLEKHA8
TSPAN12 FZD4
FTSJ1 DRG1
PRRC2A GANAB
CSNK2A2 CREBBP
TNNC1 TRIM63
PSMC5 UCHL5
PPP2CARELA
GPC4 FGF2
CLN3 INSL6
PSMC2 PSMD6
RBPMS EWSR1
PRDX2 EXOC6
MYC COPG

H2AFX PTC3
CCNT1 TAF7
AKAP5 IQGAP1
PRPF4 PRPF3
DCAF6 SMURF2
ZYX RPH3AL
CCNO VAV2
AR CASP8
RUNX1 AES
PMS1 MMS19
HSPA1B RAD23A
SCRIB TJP2
FLNB MLH1
PKD2 PACS1
GRIN2D TJP1
FADD IKBKG
MYST2 ZNF165
ARRB1 NOLC1
GABARAP VPS28
PSMD8 UCHL5
TTI1 ATR
SOCS1 PIK3R1
KCNQ2 CALM2
HMOX2HAP1
BRD4 RFC3
GAS7 WASF2
PIN1 CAPRIN1
GAPDH PRKCI
U2AF2 MAP1B
PLXNB1 RND2
SNAPC5 DEPDC1B
GABPB2 YAF2
GATA1 SMARCC1
MED22 MED17
CCT5 IGBP1
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CANX SLC6A4
GRK4 IKBKG
CFL1 SSH2
DMWD TRMT2A

LIN7A DLG1
HOOK2 AKTIP
PLCG2 BTK
PSMD12 USP14
PPP1R12A PRKG1
KIF3B KIFAP3
PDE4DIP ZNF512B
SKIV2L2 YWHAG
EPB41 CDK2
WDR33 GIT1
PARN UPF1
SOCS1 AXL
NCOA2 SRCAP
UBE2E1 RNF181
RDBP COBRA1
TXN VHL
SUMO3 POLD3
FRA10AC1 ADPRHL2
RAB27A SYTL3
PPP2R1B STRN3
SIN3B RNF220
PPP1CBAKAP11
THRA YWHAQ
PGC CDK9
FYN CD55
FLNA CAMKK2
POLRMT NFKBIA
TRIP6 GFI1B
RRP12 AP2M1
EPS8 CCDC85B
FAM40A CTTNBP2
GNAI1 NGB
DDB1 VPRBP
EIF3D HLA-B
PRPF4 PFDN5
MED14 NCK1
MTOR UBQLN1
CUL1 COPS8
DAND5 ETS1
CD63 CD81

SMARCB1 MCPH1
HSPB1 CRYGC
CCT8 IGBP1
NUP214NXF3
WASL PACSIN1
DDX5 SRA1
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PPP6R2 ATXN1
CCNB2 TGFBR2
ARRB1 SLC9A5
MX1 DAXX
FRS3 PTPN11
GMFB IKBKE
CDC42EP2 SEPT7
APC SYNE2
BICD2 NEK9
SLC9A3R1 SCN4A
KRT79 BTRC
MED24 SREBF1
GRIN2C DLG3
CAPN1 SH3BGR
DAZAP2 SMURF2
USP49 YARS2
CBX7 RNF2
GIPC1 TPBG
NR5A2 NR0B2
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ORC5 CDKN2A
HOXC13 HNRNPAB
TBL3 RBBP7
WFS1 ITGB3BP
PIAS1 PTK2
TK2 SETDB1
DNMT1 DAXX
MLL CTBP1
CUL1 C20ORF94
PGR STAT5A
UBE2G2 RFFL
RNASE4 TNFSF8
PARN KHSRP

TBPL1 GTF2B
EIF3F CSNK2A1
NCK1 DTNBP1
SOD1 STUB1
GIPC1 SLC2A1
FOXO1 CSNK1G1
MAPK1 PTPRH
UBE2D1 RNF125
NCOA7 ESR2
DAPK3 RPS27A
NCK2 EFN2
PRKCG PTPN1
PPIH USP15
TADA3 USP22
SMC2 DNMT3B
SEPHS1 TNFRSF10D
MCM7 DBF4
VHL KNTC1
KRT18 SHC1
REN RENBP
CHD3 HDAC2
FLAD1 PRTFDC1
GNAI3 MAP3K3
ARSA GAL3ST1
NR3C1 CWC15
PIAS1 TBP
HSPA4 YWHAZ
TLE1 SIX1
MEF2A EP300
SH2B2 LYN
HGS APP
HNRNPM C20ORF24
SH2B2 ASB6
SNW1 SIN3A
ARF1P1 C4ORF14
NR2F1 CBX5
NONO CRT2
TUBB MAP3K3
CTNNB1 EMD
PRKCI SMG1

MLL CREBBP
MLL MYST3
EIF3J EIF3K
CHD3 IKZF1
PPM1A CACNA1B
RPS6KB1 POLDIP3
CHD3 XRCC4
GNAI1 RIC8A
PSMB1 CASP4
TADA2B USP22
SREBF2PTGES3
KRT85 USP15
CEP110 TFIP11
MYH8 PHB2
MED1 MED8
JAK2 PPP2R4
FLNA TNIP2
RAB4A DYNLL1
MED26 MED18
PIK3R1 TULP4
UBE2D1 CHFR
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CSNK2B TRIB3
HSP90AB1 FLNA
SEMG1 KLK3
PPP1R8 HDAC2
LTA TUBA4A
BTF3 HLA-B
YWHAG FGD6
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AXIN1 DAB2
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ACVR1 SMAD1
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FGF1 HSPA9
MYC USP48
ORC1 MCM6
CSNK1A1 RIPK1
PDE6D CDC42

COIL FXR2
PFN2 TERF1
CCDC85B BEX2
SMARCB1 ARID1B
NCOR1 ZBTB6
DCN DPT
SF3B2 RBM7
FAM175B USP7
YWHAG LIMA1
UBE2N CADPS2
YES1 CDKN1B
HOXD4 HNRNPAB
RAE1 USP7
DIMIT1L USP42
SCAMP1 SYNRG
PRPF40A VCL
HGS ATP1A1
ZBTB16SIN3A
YWHAE ING1
LRP1 DHCR24
SMARCE1 RCOR1
NOS1AP RASD1
SEC13 NUP85
JUP NFKBIE
PSMB3 PRKAB1
RPF1 GABARAPL2
KCNA4 ERBB2IP
BECN1 EXOC4
DDB1 GPN1
ABL1 RAD9A
COMMD1 NFKB2
KDM6AASH2L
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PXN LIMK1
CFTR BCAP31
CD44 ERBB4
MAP3K8 MAP2K1
CDK5R1 TSC22D4
GTF2I BTK
MAP3K1 BAG5

HNRNPL TRAF6
WIPF1 WBP4
CBX4 USP11
PPP2R1B SET
TUBB1 RASSF1
CNOT6L CNOT1
SRC AHR
NFKB2 NFKBIB
HIST1H4I HDAC6
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EEF1A2MAP3K1
HUS1 PCNA
RNPS1 DDX20
GATA1 CREBBP
ZNF408 THAP1
POLR2C MED19
LMNA SUMO4
GRIA2 DLG4
PRKACA CCND1
IKBKB C1QBP
DYNLL1 ZHX1
MAP3K8 EPPK1
GATAD2B DPEP2
CCR3 CCL7
SLX4 C20ORF11
TRAF2 TRAF6
UBE2C ENO2
TRAF2 MAP4K5
MPHOSPH10 IMP3
CRMP1 CCDC106
CDK9 CCDC87
RPL22 CDC42
HCLS1 MAP4K1
HSF1 PTGES3
GTF2F1 HNRNPU
RNF4 IKBKG
NANOS3 CALM2
NR3C1 UBE2I
CTSD IGFBP3
NR3C1 MAPK1

HABP4 DAXX
LYN FASLG
P4HB PTN
LAMP1 NCSTN
E2F1 SERTAD2
SLC9A3R1 MSN
PARD3 PARD6G
TLE4 PAX5
PARD3 PARD6B
NR2C2 TRAF2
PRKCI PARD6G
PRKCI PARD6B
PTN CRCT1
KHDRBS1 YTHDC1
TNFSF10 C7ORF64
STXBP1 DOC2A
PLEK INPP5A
EEF1A1 TAF9
TAF10 SAP130
CSNK2A2 ARRB2
CCR3 CCL8
EPB41 ACTA1
ESR1 AKT2
TFRC IKBKE
SNAPC5 SNAPC4
BRAF CCDC88A
MAP3K7 EIF2AK2
FAM127A UBQLN1
RAF1 LTK
SHC1 KDR
SUSD1 ATF7IP
NAA38 ITSN2
CBX1 CDYL
WIZ EHMT2
STK39 SLC12A6
NRP1 FGF2
ESR1 AKT1
RPF1 SH3KBP1
SKIV2L2 MPP6
PDE4B DISC1

CD55 NDUFA2
APBB1 DDX46
PRKCA RRAD
IRF1 RPS27A
N4BP3 RPF1
NUDT21 VHL
PIK3CA APLP2
ATN1 STXBP4
POLR2E RPF1
HMG20B RCOR1
SLC26A8 RACGAP1
EPN2 YWHAG
SDC3 SDC2
CDK2 CNKSR2
E2F1 FHL2
COPB1 COPA
PTP4A2 CNNM3
STXBP1 APBA1
IRF1 RPS27A
HBP1 HDAC1
USP11 RING1
SMARCB1 MLL3
ACTN1 MAGEA11
FADD RYBP
HSPA1B SNRK
YWHAQ SRSF6
G3BP1 FLNB
MED22 MED29
MMS19 PHB2
E2F1 TFDP2
TAF1 TAF7L
E2F1 TFDP1
PDGFA PDAP1
KEAP1 COPG
UBE2G2 USP15
HSPA5 DNAJC10
IARS TANK
MYC TNPO3
RNF144A UBE2V2
PMAIP1 BCL2L2

GABARAPL2 CUL3
FOXG1 FOXO1
ACVR2A GDF5
PXN PAK1
PAK2 MKNK1
UBTF MAPK1
CLDN2 WNK4
DNAJB6 USP8
STAT3 SUMO4
PSMB5 POMP
SNRPB C14ORF1
PEBP1 HLA-B
CCL20 RALBP1
RXRB GTF2H1
MTA2 BCL11A
UQCRC2 ARF6
MPP3 CADM1
CRYAB CASP3
ATF7IP KIF13A
FGF17 FGFR3
DYNC1H1 IKBKG
MAP2K4 RBM17
FOS SMARCD1
TRIM9 EXOC1
PHC1 RNF2
ZSCAN1 ASH2L
EZR SPN
MYC CARM1
SUB1 EP300
CIAO1 GTF3C5
CIAO1 GTF3C3
RBBP7 BCL11B
RNPS1 RBM42
PLCG1 HNRNPA2B1
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LRP2 LDLRAP1
CCND1 PPP1CC
DPCD RUVBL2
DVL2 RHOA

PSMB3 TRAF6
EIF3E PRKAB1
RFC4 CHTF18
TYROBP SYK
IRAK1 SIGIRR
TRIP13 LNX1
TYROBP ZAP70
SYNJ2BP RALBP1
IFIT3 MAST1
INSL6 WWC1
MYST2 CBX8
OLIG3 TCF12
CNR1 GNAI1
BCAR1 ARHGAP32
GMCL1 TSG101
EPRS NFKBIB
G3BP1 GIGYF2
PLG LAMA1
HGS APLP2
PABPC1 GNB2L1
DTNBP1 ZFYVE20
ZFYVE9 UBXN11
MOAP1 MAGEH1
BNIP3L LMNA
UBE2I TP53BP1
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FGF1 FGFR3
CDKN2A RPL11
DYNLL1 C14ORF1
LHX1 ISL1
CDH9 CDH10
PTPN11 LY9
TAPBP PDIA3
RAD23B PSMD4
MMP14 LUM
MYC LAS1L
MCM7 ORC3
SPP1 IGFBP5
PTPN1 RHOB
POLA1 POLE

ICMT RHOA
CIAO1 WT1
CDK1 KAT5
PTPN12 IFT20
CASP2 BCL2L1
UBE2I CHD3
GNAI2 IGF1R
GOLGA2 RUSC2
UMPS DLST
IGF1R EEA1
ATXN7L3 ENY2
PRPF4 SART1
EFEMP2 HHEX
UBE2H MRPL38
HDAC3 IL16
NCK2 NCKIPSD
TP73 TRMT11
TP53 XRCC6
SELENBP1 TRIP13
RHOD TGFBR1
ESR1 DNTTIP2
INSL6 PRMT1
ETS1 ACAD8
PIM1 BAD
CDK19 MED19
YWHAG BAIAP2L1
NUMA1RPAP1
KDR GRB10
SMARCA5 CENPA
ABL2 ERBB4
MYH9 TRPM6
ZNF24 LPHN3
EEF1A1 ANKRD24
GCAT TDH
CSK HNRNPK
TRAF2 RIPK3
FYN DAB2
SNIP1 HIPK3
DCP1B UPF2
SERPINA5 KLK2

CXCR4 ITCH
USP13 FAM115A
POLA1 SMC1A
CREBBP KLF13
CKM FHL2
NFYA TAF11
TP53 PTK2
UBXN11 C6ORF165
DVL1 ARHGEF19
EIF4E MKNK2
FLNC MYOZ3
ABCA1 AOX1
TPM3 S100A4
HIST3H3 HDAC8
TSR1 MAP3K14
ME2 ATIC
CCT6A IGBP1
EYA2 GNAI2
APC DBF4B
YWHAB MINK1
PURA E2F1
TRAF2 EDARADD
RAF1 PDGFRB
PLCG1 CBL
ITGB1 SPP1
MYBPC1 FHL1
CTNNB1 MLL
PIK3R1 KHDRBS1
PARK2 EPS15
PSPH CIRBP
FGR HCLS1
PPL SKIL
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GAPDHQRICH2
ANP32A TRAF1
EPB41 UBE2L3
DNMT1 BAZ2A
GAB1 PTPRO
USP11 CBX8
NKX2-5 TBX5

UBE2L6 NAMPT
KRT18 TSG101
GAR1 DDX20
VTN CSNK2A1
MIB1 UBE2D4
RPS27A SCN5A
SFPQ NFKB2
POLR2B LZTR1
YWHAB PDCL2
HNRNPK NPDC1
TRAF2 SHANK1
TBC1D17 CALCOCO1
YWHAB MAPK7
SPG21 RABAC1
HMGB1 CSNK1A1
POLR1A POLR1E
PLCG1 PITPNA
CDC20 ANAPC10
BAD WNK1
GSTP1 TRAF2
EEF2K MAPK12
CDC20 FZR1
MAPK14 CDX2
SYF2 MCM3
U2AF2 U2AF1
RPS27ANKD2
GRB2 CSF3R
PGGT1B CDC42
RAB6A RAB7A
VAMP2 SYPL1
HSPD1 HSPE1
IFIT3 FANCA
PLA2G10 MYO10
POLR2C RPF1
SETDB1 CRELD1
SFN KLC2
FAF2 AMFR
DHPS NIF3L1
SEC61A1 TSC22D1
S100A8 PPIA

RELB KPNB1
PLCG1 PKN2
IGBP1 CCT7
F2R GPRASP1
USP19 LRPPRC
PRKACA TNP2
GFER COPS8
DYNC1H1 MAGED1
SMC2 TNFRSF10D
SNRNP200 SNRNP40
CCR3 CCL26
MCM5 CDKN2A
VDAC1 GANAB
ABL1 P2RX7
DAND5 CBX5
MAPK1 DUSP2
PSMD7 ATXN3
CDKN2A HIF1A
EIF5A DOHH
PHF2 EZH2
NAA20 IKBKE
PRPF4 RNPS1
MEN1 SNW1
EIF1B UBE2L3
PRMT5 FBL
IKBKE OTUB1
ACTR1A NUMA1
TIRAP RNF216
BRCA1 BLM
TACC2 RXRB
UBE2N RNF152
HRAS GRB2
POLA2 SETDB1
LYN CD36
FYN TRPC6
ATXN1 ACACA
LIMS1 RBBP8
PSMD7 RAB1A
MEN1 HDAC1
MYBL2 ZBTB9

BAG2 MAPKAPK2
APLP1 UTP14A
THRB COPS2
CRK DTX1
SMAD9 UBE3A
USP4 USP32
TADA2A TP53
PDPK1 AKT2
TAF4 CBX3
BCAR1 TNS1
GNB2 MAP3K3
BACH1 XPO1
RING1 PHC2
FLNC OTUD1
TCEB1 CISH
PLCG1 GIT1
PDPK1 AKT1
EFTUD2 SRRM1
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CNOT3 CAND1
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CCDC85B DUSP13
SP100 NIPBL
RRP8 SIRT1
ATXN1 ZNF804A
JAK2 PPP2R5A
PMS1 RANBP9
SLC6A2 PICK1
IFRD1 RIT1
DHPS EIF5A2
GSTO1 SETDB1
VAV1 CXCR4
PMS1 CYLD
EIF5 DDA1
LIF IL6ST
SFN RACGAP1
TOLLIP RNF216
AKAP8 CASP3

HNF4A SMAD3
SUPT3H MAX
GNA12 PRKCD
CAPRIN1 GIGYF2
UBE2K TRIM5
CASP14PRKAB1
PPFIA2 PPP2R1A
AMOT AMOTL1
RPA2 TLE1
DUSP28HSF4
CALM2 EWSR1
EGF DUSP3
COL2A1 PRELP
CSTF2 C14ORF1
S100A1 NIF3L1
ACLY TNFRSF10D
PIK3R2 FGFR1
EGFR TUBA4A
UBE2K TRIM2
CDKN1A HDAC6
MYC TBP
PSMD3 PTP4A3
NFKBIE TIMM50
UTRN SNTB1
FASLG ARHGAP4
NFKB1 RPS24
MCM3AP CELSR3
TP73 YAP1
HSP90AA1 STAT1
CCT3 IGBP1
TP53BP1 TFDP1
SREBF2SETDB1
KDM5AMXD1
MED27 MED28
NEDD8 COPS6
ABCF1 LYAR
LTF LRP1
CTNND1 PLEKHA7
EFEMP2 ZNF638
RAD50 TERF2IP

MAPK14 KIAA1217
SRC KDR
PTN TAC3
TSHR GNAI1
MAPK1 NEK2
AGTR1 GNAQ
GTF2F2 TCTEX1D2
EGFR PLCG1
CNOT6L CNOT10
TAF10 USP22
HNRNPH3 ANXA11
MYC TRRAP
ARFIP2 ARF1P1
PTPN6 TMEM62
HDAC3 EWSR1
STK4 RASSF5
SF3A1 SMYD2
MAGEB2 HIST1H2BG
BMX RUFY2
HTT CTBP1
RBM23 KIAA1377
USH1C QKI
FASLG MACC1
SELE FLNA
GABPB2 IL16
YWHAB USP43
CHMP1B VPS4A
SMAD9 MGAT1
KCNH4 GRB10
YWHAB SKP2
PHF21ARCOR1
TRHR ARRB1
NEB SMURF2
HMOX1 PSMD2
BCAR3 LMNB1
RARB CEBPB
SDCBP NF2
LRRC59 TNIK
RLF CNKSR2
COIL MYO5B

RANBP2 TNPO1
PSMC4 PSMD7
LSM1 LSM7
NR0B1 ESR2
ADCY3 CAMK2G
HNRPDL APC
SMC2 IKBKG
TK2 PTPRK
SHBG SORD
TFE3 RPL38
POU2F1SNAPC4
CETN2 XPC
MOS MYOD1
FLNA GRB2
CHD3 PTPRS
RALBP1 REPS2
CHD3 MTA1
CSNK2A2 PRKDC
LAMA4COPS6
PSMD3 ACTR3B
AP1G1 KIF13A
SHC1 TEC
HLA-C CALR
ATF5 DISC1
LGALS9 SLC1A5
PRMT5 MBP
KDM1AHIST1H3J
SYNE2 PLEKHA5
CHEK2 BRCA2
MAPKAPK2 PHC2
EEF2 TRPM7
FASLG SH3PXD2A
MED25 MED17
WIPF1 PRPF40A
ZNF417 BEGAIN
S100A4 MDM2
MED30 MED4
RBBP7 ING1
TRIM38UBE2U
GNB2 GNG12

CDK2AP2 WARS
VARS DMWD
CCDC14 UBQLN4
DOK3 INPP5D
GDF9 MYCBP
YES1 SPRR2A
KAT2A SMAD5
UBC UBASH3A
FLNB ISG15
PPARG SETDB1
SETDB1 PGAM5
SOCS1 TEC
PIK3R1 SEPT2
SMURF1 LHX9
SRC PTK2
GNB1 PTH1R
STRN STRN4
LECT1 FURIN
CDH6 CDH10
TOPBP1 BRIP1
LDB2 TSNAX
SMAD3 ZBTB16
MAP3K7 SLC9A1
USP11 ATG4C
JAK1 IL6ST
BMP6 NCOA3
RB1 SPI1
TBC1D4 NAV1
YWHAB HDAC4
PRNP PVRL1
TOP1 TOPBP1
CRK KIF22
EXTL3 PIK3R1
MAF MYB
RPS27A AIMP2
GATA1 MAPK3
PIK3R1 SNX17
ARPC2 SNRNP48
ZC3H14 SRRM1
NCOA6 ASH2L

ARRB2 TRAF6
POLA2 STK40
RNASEH2A PKIA
APP SHC1
CDK1 MCM4
MATK PTK2B
ADAM10 EPHA3
PKD1 HDAC9
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GSTO1 TRAF6
RPS27APDCD4
EEF1E1 ARF6
NCOA6 PPARGC1A
UBE2W ZNRF4
ITGAL RANBP9
GRIN3B GPRIN1
MAP3K1 USP9X
CD82 HBEGF
GSTM4 INSL6
ELAVL2 HNRNPAB
UBE2K RNF114
NECAB2 CENPO
ABL1 DOK1
VIM DCTN1
AURKBANKZF1
FOS ANP32E
HSPE1 TNFRSF14
RPS27ACRTC2
CIR1 HDAC2
SKP1 FBXW7
DYNC1H1 PHLDA3
CSTF2 KAT5
PIAS4 IRF7
MEIS1 EMX2
ARF1P1GGA3
SORT1 GGA1
SGK1 BRAF
DDB1 GSTK1
SORT1 GGA2
ATG5 PA2G4

PRNP CCDC149
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PTK2 ARHGAP32
MAGEB2 RPL31
FN1A ACVR1
SMAD3 SMARCC2
CD74 HLA-DPA1
COPB2 BRF2
SERPINH1 TSC22D1
TYRO3 GAS6
DYNLL1 BMF
HTT SUMO1
SUMO1 ARX
DMWD DCXR
PXN ARHGAP5
TRIM23 C19ORF57
SMC2 MYC
PTPN6 MAP3K4
NTS ACE2
DNAJB1 AKT1
LYAR RSL24D1
DKC1 RUVBL1
H2AFJ RAN
CHD3 INSL6
DDX5 ARF6
ACVRL1 TGFBR2
LAMC1 ATF7IP
PDXDC1 GIPC1
PDHB BRF2
OGG1 XRCC1
MED18 MED17
FGA THBS1
ATP1B1 INSL6
PTPN4 ATRX
SKIV2L2 EXOSC6
PHB NAP1L1
TAC1 BAG6
PRMT5 SMARCC1
MYC MYO5A
NCL WNK1

APC MNS1
UBE2M CPNE1
CLPS LIPF
RHO GRK1
CCR3 CCL13
FN1 TRIB3
GPI CSNK2A1
ITGB5 LTBP3
SMURF1 PDLIM7
DAZAP2 TCF7L1
MED7 MED19
CDC20 FBXO5
SNRPC SRRM1
HLA-C LILRB2
LTA4H MCC
PPP1CB CDKN2A
MIP CALM2
POLR1E RNMTL1
CDK4 GEMIN4
RASA1 RAP1A
MEPCE RPAP1
ORC3 PLCG1
ARRB2 CALM2
NCK1 SCARF2
TLR2 TLR1
GCA SRI
SHPRH USP36
PNKP SMAD5
PTPRS UTP14A
MYC NOC2L
ABCB1 PHB2
PIK3CANOTCH1
SHC1 NTRK3
MED29 MED23
CREB1 HDAC1
SGCB SGCZ
MAPT RPS27A
EXOSC10 SSRP1
IFT27 HSPB11
SSRP1 MYCBP

SGTA SYT4
ACTG1 SUMO4
ZG16B USP25
NXF3 NXT2
ORC3 FYN
RFC1 TCEAL1
RRP9 SMURF1
LGALS1 YWHAZ
HSPB3 HSPB8
SKP1 FBXO32
RPA2 RPA1
VIM TRIM29
FYN PKD1
SPRY1 GRB2
ERBB2 SRC
ORC3 LCK
CREB1 ATR
SRC EPHB2
VHL TRMT112
CNTN2 HDAC1
PPFIA1 AGTPBP1
SH3RF1 SIAH1
PAX7 ASH2L
GFI1B NELL2
SFN PKP2
CSNK2A2 AQP4
RXRG RPAP2
SNTB2 DGKZ
CBFA2T3 TAL1
FYN EPHA8
FYN EPHA3
TCEB1 EXT2
APP COL4A5
DVL2 PCBD1
SRC EPHA3
A2M ADAMTS1
APC EXPH5
CTNNB1 ASH2L
TRAF2 TNFRSF18
SET ELAVL1

TCERG1 WWOX
PIK3R1 ELK3
CD63 ITGA6
FGF2 CSNK2B
CDKN2D CDK6
RTN3 COL4A3BP
NTRK2 KIDINS220
WNT2 FZD1
SHC1 YWHAZ
AR SMARCD1
RHD BAZ1B
APAF1 FEM1B
BCL2 VRK2
IRS4 ALK
HAX1 ABCB4
SKP1 CDCA3
FYN DLGAP4
EZR FADD
CNGB1 PNN
BMPR1B SMAD6
PHB PBRM1
MAPT RPS27A
ATF3 FHL2
COPZ2 COPG2
CRMP1 BTBD2
CREBBP RUVBL1
RAF1 BRAF
FYN CYP4F8
DBN1 NIPBL
NPHS1 FYN
SEC13 NUP160
ABL1 SHC1
ABL1 PTPN6
CTNNB1 HDAC6
NOTCH1 WDR12
E2F1 BTG3
RELA AKIP1
SMURF1 AVEN
CD46 STK39
AGR2 MLH1

ACTR5 INO80
APLNR APLN
CSNK2A2 BRF1
IRS1 YWHAE
PRPF40A SMAD4
NBN MRE11A
SRC SHC1
ABL1 EPHA3
SREBF2MOAP1
SRC PTPN6
LPXN HOXA1
HUS1 HPRT1
ATP5F1 TSG101
TCEB1 CUL5
DNM1L UBE2H
FYN EPB41L3
ABL1 EPHB2
FYN SHC1
EIF1B GAPDH
SLC9A3R1 NOS2
MSH6 PRKCZ
SLC9A3R1 CTNNB1
COMMD1 COMMD5
GATA1 ZFPM2
VIM CRMP1
ACTB ACTC1
STK16 EXT2
NHP2 IKBKG
ACP5 SNRNP40
AKAP6 RYR2
HMOX1BLVRB
HARS TNIK
EIF4E2 EIF4ENIF1
LMO2 KDM5A
MYST2 MEAF6
SRRT GIT1
ZYG VAV3
MCM2 PRKAG1
PCP2 LAMC2
PCP2 LAMB3

NDC80 MAD1L1
YWHAG ARHGEF18
SMCP KRTAP4-12
SH3BP5DISC1
RFX5 HDAC4
RBBP7 APPL1
RALB PLCD1
MAPK12 PKN1
NPM1 AKT1
SKP1 FBXW5
NOS1 CAMK4
RDBP C19ORF29
HCK SH3KBP1
PIAS2 SMAD4
NTRK2 FRS2
IL2RA ICAM1
MAP3K1 ALK
CDC27 CDC20
SLC9A3R1 RDX
SLC9A3R1 NF2
ZMYM4 KLHL13
MET RANBP9
KAT2A RAD50
FASN NFKB2
TMPRSS3 EEF1A1
IL23R IL23A
RALBP1 TAX1BP1
LRP2 ANAPC10
BCL2 EPHB2
XRCC6 MAPK8
CIT RHOC
NAPG RAB11FIP5
CHD3 TRIM28
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KRR1 EWSR1
EIF1AXMAPK6
CRK SMAD3
VDAC1 GABARAPL2
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ZYG1 ZHX1

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PLCG1 NTRK2
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CALB1 TRPV6
SUMO1 DNMT3B
IFIH1 ATG5
TUBA3C GRM7
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DVL2 DAB2
SPARC CTSO
SLX4 TEX10
YWHAH RPH3A
FOS CABP1
TERF1 PINX1
NOS1 ADRA1B
KHDRBS3 RBMX
CBL KHDRBS1
DPEP3 DDX5
HLA-G KLRD1
NCOR1 NCOA1
SERPINA1 PRSS3
KDM3BUSP18
RFX1 RFX2
SGCB SGCD
MDC1 RAD50
PTPN2 STAT3
IGF1R PRKD1
SFN ISCU
GRIN2B INADL
RFX1 RFX3
ETS1 RPS27A
VPS39 HOOK1
LCK SHC1
SUMO1 SAE1
MRAS PIK3CA
YWHAG FOXO1
MAPT CASP8

DNMT3A EZH2
APC SYNE1
XRCC6 CBX5
CTNNB1 NLK
PSMA3 PSMD4
GDI2 TNFRSF14
NOS1 ADRA1A
UBA3 UIMC1
TCEA2 FAM190B
STK4 C20ORF94
IRS1 CAV1
VHL GLRX5
SOCS1 PIM2
LCK PTPN6
EXOSC5 EXOSC3
ITGB1 CD82
HOXD4 HIPK1
NCOR1 TAF6
NLRP3 NLRC4
APC NAV1
GNL3 ASCC2
DLST CCDC86
PTPRC ITGAL
CBL CDC42
FIBP CSNK2A1
CAMK2D CAMK2A
SPRY2 RPS27A
VASP APBB1IP
TSPAN3 EWSR1
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RFX2 RFX4
PITPNBLMO4
LMO2 ISL1
RHOC RTKN
KPNA4 RAC1
RHOA ARHGEF19
CSNK1A1 MDM2
VHL PFDN2
BRCA1 TERF1
RER1 SH3GL3

SPRY2 GRB2
CUL1 FBXO33
SELENBP1 POLDIP2
TRIM38RIPK1
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CTTN ANKZF1
BRCA1 UBE2J1
INTS1 RPAP3
ASPM SMYD2
TOMM20 PINK1
GNB1 CAV1
AK2 PAK2
SS18L1 PCGF6
NFKB2 TNIP1
IMMT PIAS4
TP53 EP300
TNKS LNPEP
TP53 TP63
COPS6 STK40
NFKB2 EFTUD2
PRKCZ BTK
RAC1 C2ORF67
ATF3 RELA
SOS1 ZNF804A
BBS2 FHOD1
SRC NOS2
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EFTUD2 RPAP3
EPB41 HADHA
KCNJ2 KCNJ16
FANCA FYN
MYC NUMA1
CMPK1 TNIK
YWHAQ NFATC2
CDH2 PTPN6
SRC CTNNB1
RIPK1 RCN2
ISG15 USP18

RPA2 SERTAD3
GNB1 GNA12
PTPN6 FCRL3
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SULT1E1 UNC119
UBC BIRC2
FRS3 KARS
TH MAPKAPK2
RFC1 MSH6
PXN PTEN
HDAC3 RBM15
TBP AHR
MAP2K7 TRAF6
TRIP4 SHD
NUPL2 TAP1
NCOR1 NCOR2
GPRASP1 STMN2
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PLCG1 RIN3
BRCA1 RAD23B
KIF3B LMO4
RXRA GADD45A
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STRN GNAI1
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MCC RAB2A
SMAD3 KDM2A
MED7 ESR2
HIPK3 DAXX
GAPDH SUMO4
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HGS PLD3
FLT3 PTPN12
CSNK2A2 CABP1
TFF1 UBQLN1
ASGR1 CLEC4G
GRB2 FRS2
APBA1 KCNJ12

GOLGA4 BIRC6
KIFC1 CXXC1
ACTL6A RUVBL1
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PFN2 PRKAB1
TANK MAP4K5
PFN1 WASF1
POLR2L MED19
MED18 MED9
KIF20B RUVBL1
ITGAV ICAM4
EGFR OLFM1
SRRM1 SRRM2
TBPL1 PTC3
SLC25A5 NFKBIA
CCDC106 C14ORF1
ABL1 SFN
PDGFB THBS1
ABL1 YWHAB
LIN7B BAIAP2
FER ERBB3
APOB PDIA4
PDZD3 SLC22A9
MUSK PDZRN3
RAP1GAP RAPGEF2
TNFRSF1B KPNB1
CCNA1 CABLES1
MAPK1 STAT5B
P2RY1 SLC9A3R2
TAB1 TUBB2B
HLA-B ADSS
GDF9 MPHOSPH6
METTL11A IKBKG
NFATC1 YWHAZ
STAT1 CXCR4
RAF1 YWHAZ
TMEM67 MKS1
HSPE1 IKBKE
FABP4 OSTF1
LUC7L3 MEPCE

FHL2 SPHK2
ACTN1 PTK2
IFNGR1 PTPN11
RNF4 UEVLD
FCHSD2 CCDC158
FGF2 PTX3
XRCC5 TERF2IP
CASC3 RBM8A
PBX1 SMARCD3
IRAK2 PELI3
GNAI1 RGS18
SNRPB TNIK
MYOD1CDK2
CHD3 GPS2
CIAO1 BAG6
ATXN1 YWHAZ
CHD3 TNFRSF14
TP53 VHL
UBE2G2 ZNRF4
PXN ITGA9
PIAS1 MDM2
AR MYBBP1A
S100A4 HBEGF
NR3C1 NCL
VAPB MTNR1A
PARP1 CDKN1A
AR FHL2
CCNA2 DTNBP1
CDC73 WDR61
AR APOL3
TRAP1 PINK1
ARAF HELZ
IKBKB HSPA1L
APPL2 RUVBL2
YWHAG TUBA4A
GFRA3 ARTN
APP MAST1
NPTXR NPTX2
CFTR CLCN3
DNAJC19 PAM16

NFKB1A EP300
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SLMAP PDCD10
TCF3 AEBP1
AIRE RAD21
TAB1 MAPK14
AHR NRIP1
NOTCH1 JAG2
MED30 MED29
TGFB1 CASKIN2
SUMO2 CDKN2A
ORC4 RPA2
FBLN1 HSPG2
CCDC85B LZTS2
F8 PROS1
STAM2 RIN1
MAPK9 HSF1
NFKB1 EP300
CDC25B KRT85
GAST MEP1B
WDR77 CTD1P1
BRCA1 IFI16
CSNK2A1 SLC18A2
CCL5 CCR1
RMND5B UBE2D4
GATA3 SATB1
CAD SUMO2
CCDC85B C7ORF50
TERT PTGES3
GRB2 MYRIP
RWDD1DRG1
SYN1 CDK5
SMAD3 AXIN2
MED25 MED9
PLD1 PKN3
TP53 HIPK3
PFN1 PIK3R1
NUTF2 NUP54
AR KIFAP3
RHOA SMURF1

CAD YWHAG
ZNF365 DISC1
AGR2 CRMP1
TNFRSF10B TNFRSF10D
WBP2 WWOX
CALCOCO2 MCM10
VHL CDO1
NCK2 ABI2
MMP2 OSBPL10
ALDH2 ITGB3BP
ZBTB25SORBS3
CDH2 GNA12
TOB2 CNOT7
CDK1 MEF2C
PIK3R1 IL1RAP
ESR1 PAK6
LMCD1 IKBKG
SPINK1 NRSN1
TRAF2 ZNF646
RAB27A EEF1A1
AR KAT2B
SMARCA4 SS18
MT-ND5 PACSIN1
HERC2 CDC42
WDR1 CFL1
CD82 NUP88
HSPA1B HSP90AB1
MAOA RPS27A
UBE2I HDAC7
ETS1 NCL
STOML1 ACCN2
ABCG1 ABCG5
ADCK3 MAGED1
SGK1 CS
GZMA LMNB1
KPNA1 RUNX1T1
ARRB1 MAPK10
KLF11 SIN3A
PQBP1 C14ORF1
CHMP4B VPS24

RBL1 MRFAP1
SCMH1 MOBKL3
SH3GL3 QTRT1
NFKBIE SKP1
YWHAZ SET
EXOC8 EXOC2
MEF2A HDAC7
PRKCA ITPKB
EPPK1 MAP3K3
GSTP1 SUMO4
PAX7 RPS27A
MON1BFYCO1
POLR1A TAF1D
MED18 MED29
UBE2I TRIM41
TGFB3 TGFBR1
CCL5 CXCR5
TCERG1 DIAPH1
CDH12 CDH18
PFDN1 RNPS1
GABRB1 ARFGEF2
MAP2K6 DCTN1
ZFAND5 IKBKG
DDB1 BRAP
HIST3H3 HIRIP3
HGS TMCC2
KIF4A TTF2
KBTBD7 MAP1LC3B
NTN1 UNC5A
EIF2C1 TNRC6B
DVL3 ZNF408
SNTA1 MAST1
AK1 MLL3
SNAPIN GPRASP1
CCT3 PPP2CB
HSF1 RALBP1
PDCD2 USP43
CD28 GRB2
INPPL1 ITSN1
UBC USP5

CACNB4 MAP1A
ZNF862 TTC28
TRIM37FAM107A
SMAD2 SMURF1
POLR2F MED1
ERCC6 ERCC8
KCNH4 EWSR1
SOX9 MED12
YWHAB PDE3B
EZR PLCB3
ZNF646 UBE2I
RFC3 MEPCE
APC CIRBP
DNAJB1 ANK2
NUMB RALBP1
CRK SH3KBP1
PRC1 USHBP1
NR2F1 BCL11A
FXD3 SERBP1
AKR1B10 ACACA
NEFL MAP3K10
ACTB EEF1A1
DDX3X ILK
PRRC2A UBAP2L
RNPS1 DDX41
SORBS3 DMRTB1
TRPC3 PRKG1
DLG1 GLS2
TACR2 TAC3
YWHAG EDC3
CREB1 MED15
MAPK3 HSPB8
TAF11 TAF15
TBCA TAF9
INSL6 FEZ1
TRA2B SRSF9
SERP2 EWSR1
YWHAZ UPF1
CD40 TRAF3
MATR3 PCBP1

PLSCR1EGFR
YWHAZ COPS5
MAP2K4 EFNA4
MTOR PREX1
SERPINF2 KLK13
DNAJB6 ALKBH1
XRCC6 RUNX2
CREBBP CENPJ
CRKL USP7
RBFox2 DAZAP2
LEP UCN
C4ORF34 LSM4
RBBP7 MYBBP1A
DCC MAZ
HSP90AA1 FGR
IRAK1 FADD
ATP5B ATPAF2
AQP1 EFEMP2
PCNA CDAN1
ETV4 TAF7
EGFR CAV3
PLSCR1ABL1
FBL MEPCE
CDK1 APLP2
ANXA3 UBR1
GFRA2 NRTN
RPS27ARNF4
CLK2 ATR
RLN3 RXFP1
SMAD4 PARD3B
RDX ARHGDI
KCNJ3 GNB1
SSSCA1CCT3
SMAD4 PARD3
NAP1L5 HAP1
CPSF7 ITCH
LINGO1 EFEMP2
PPP1CCPPP1R9B
SF3A2 PHF5A
EPOR STAT5A

LYN PTK2B
STK3 RASSF4
MECOM SMAD4
HSP90AB1 NR2C2
YWHAZ BAD
DES WNK1
EFNA1 EPHA6
PTP4A3 PDXDC1
TRIM28 NR4A3
SKIV2L2 XRN1
AP4M1 GRIN2B
ZNF197 DISC1
AKT1 RPS27A
LENG8 PYGO1
TRIM37 CCDC33
TOMM20 CDC73
APOE PRNP
IFNW1 IFNAR1
HAT1 RBBP7
GRB2 PTPN11
MCF2L RAC1
PLSCR1 GNAI2
CHGB PTEN
MAGEA11 EWSR1
PTPN12 RBM19
EIF3E EIF3L
PRKACA APOBEC3G
NCAPH SMC4
LSM1 GRHRP
EPB41 ACP1
FHL2 ZNF331
PIM1 NUMA1
FIBP CLEC2L
EPB41 MACROD1
ANXA5 EIF4G1
EIF2C1 DICER1
APC CYTH2
YWHAG PI4KB
NCOR1 NR2E3
CDC20 ANAPC2

CDC20 ANAPC5
GJB1 PRKCA
DDX5 CALM2
CDC20 CDC23
CDC20 ANAPC7
ATG3 OBSL1
MED6 ESR1
YWHAZ ARHGEF2
SUMO2 TRIML2
YWHAZ TNPO1
CSNK2B SRRM1
HBXIP NCOA6
F11 GP1BA
COIL SNX6
UBE2U RNF170
ANAPC7 ANAPC2
AKT1 RPS27A
BRF2 NOC2L
DOK2 LYN
DOK2 RET
POLD1 WRNIP1
TNFRSF10B FASLG
GRB2 PDCD6IP
PIK3CDPIK3CG
ATXN1 C11ORF41
FGFR3 GTF3C1
UBE2L3 SMAD4
AIRE IPO7
UBE2L3 BIRC3
RBF2 GTF2A1L
TRAF1 TNFRSF19
NFKB2 KIAA1967
CDK4 MCC
RYR1 HOMER3
ITCH CBLC
P4HB GABARAPL2
KIAA0319 FEM1B
FEN1 RAD9A
FLOT1 GOLM1
GFI1B MEGF8

SMAD9 UNC45A
THBS1 VEGFA
PSMA7 PSMD4
IKBKB TANK
MCM3AP ENY2
ATP1A1 NDRG1
NFIC ZNF629
PPM1G GRIA3
TCEA1 CIR1
TP53 PLK3
RAD51 CHD3
MMP7 FASLG
UBE2L3 BIRC2
TGFB1 MYOC
HIST1H4I BAZ2A
HLA-B B2M
EIF3H EIF4A2
BMP1B RRAS2
FNBP1 DNM3
PLK1 C2ORF44
ALB AGA
CTNNB1 IQGAP1
APC PSMD1
TARDBP SETDB1
IPO5 BHLHB9
BMP5 BMP1A
PPP2R1A MLH1
HNRNPH1 NFKB2
BMX CAV1
NCL NUP62
DCN COL5A1
C11ORF16 EWSR1
EDC3 DCP1A
DCX NFASC
MCC UBE2M
PIK3R1 MEPE
HCFC1 MED25
CDK1 NUP210
HIST1H4I BAZ1B
ZNF24 C14ORF1

HDAC1 EZH2
SMAD3 STRAP
ATN1 PRRC2B
GRB2 BTK
CSNK1D PER3
RZR1 HOMER2
GTF2F1 PSMC2
AR SFPQ
KRT18 YWHAZ
TGFB2 TGFB3
CTRL ING1
EIF3F YWHAZ
NF2 ARHGAP32
KIAA1967 ASH2L
NR4A2 GTF2I
TRAF2 KDM2A
PDGFB HNRNPC
TFDP1 E2F5
PRDX5 PINX1
DEPDC1B BRCA2
GRB2 PPP2R3A
HDX POLR1E
APP CHRNA7
GSK3B MYOCD
ARNTL SUMO3
MYO1ESR2
IDH1 ZHX1
PIK3C2A MLH1
CHAT PRKCE
HIST2H2BE NAP1L4
FKBP3 HDAC1
PTBP1 RAVR1
PAICS PSMC4
PRPSAP1 TMBIM4
TRIM28SERTAD2
F2RL2 FYN
FURIN LRP1
PPP2R2A GPRIN1
ST13 ASF1A
GOT2 THOC7

B4GALT3 SLC38A1
NR3C1 NCOA3
SOS1 FRS2
UMPS PSEN1
ASS1 CDR2
CDK1 CHAF1B
TIRAP IRAK4
ATXN1 UBE2I
CTNNB1 CASP3
OGT WNK1
CHEK2 PPP2R5E
MNS1 EWSR1
HIST1H3J ERCC6
GATA1 SMARCE1
PACS1 GGA3
ZNF250 NINL
MAPK14 MLL3
PTPN6 FCGR2B
ESR1 ZNF398
EEF1A1MRPL42
POLR1A SSRP1
RECQL5 DDX42
PAN2 PAN3
LRP2 DLG1
STAT1 LDHB
CCL16 CXCR5
TRIM28IKBKE
ARID1A BAZ1B
TRAF5 CD40
ATXN3 C16ORF70
MAGEA11 BIRC2
SNCG MCM3
MED30 MED9
MTNR1A LRRC59
SYT1 CALM2
TRAF3 TNFRSF13C
DAB2 DAB2IP
TNNI3 TNNC1
VIM SUMO2
VCL YWHAZ

PRKCA ITPKA
SRP14 PRKAB1
MTUS2 KIF2C
HNRNPH1 HNRNPU
VIM YWHAG
LSM1 HSP90AA1
WBP4 CPSF7
HSPA1B ATXN1
BLM CHAF1A
PAX6 CDX2
INADL PRDM16
GRB2 BLNK
UTP14A AKTIP
ESRRG PROX1
P4HB CUL2
FER YWHAB
TEC PTPRJ
NCAM1BDNF
KIT TEC
ZBTB16LMTK3
DUSP14CD28
YWHAB BAD
FHL2 IKZF4
HIST3H3 TRPM7
PRKACA GABRR1
KCNQ5 DISC1
F8 ASGR2
ARNTL RARA
CDC25C YWHAB
MAP3K8 MAP2K4
S100A4 UNC119
CHEK2 DBF4
OTUD5 LANCL2
CEBPG GRINL1A
GPS1 TBC1D17
SRC SPRR2A
SYNJ1 AMPH
CDC20 MAD2L2
ATF7IP SENP3
SMG1 SMG5

SMAD2 SENP2
E2F3 PKIB
EEA1 KIF16B
BCL6 ZBTB16
SSSCA1DCD
EEF1A1IKBKG
GRB2 TRIM41
ENO3 PNKD
ETS1 ETS2
DNTT ABTB2
DLST ZBTB16
NINL EZH2
C21ORF63 RBBP6
TBXA2R GNA13
GOSR1 STX5
KLF11 ATXN1
ESR2 PSMC3IP
MAGEA11 ACMSD
ATN1 EWSR1
YWHAZ SPTBN1
ZFC3H1CCDC85B
TRAF2 CDCA3
GHRH GHRHR
RBBP5 SETD1B
ATXN1 QRICH1
CHD3 IK
PAFAH1B1 MAP1B
PPM1B PABPC4
ZRANB2 SREK1
RNFT1 UBE2U
YWHAG CYFIP2
HLA-B B2M
ADA ADORA2B
SNAPIN PLDN
PTPRF SKIL
CST6 EPB41
VHL EIF3K
CBR1 ERCC8
MAPK3 DUSP6
PSTPIP1 GNL3

MAPK3 PTPRO
AFF3 PTK2
HSP90AA1 UCHL1
IKBKAP MCC
SMAD4 PRKG1
EIF4E TRAF6
SSSCA1 PRMT1
PSEN2 CASP8
CTBP2 HDAC2
GDF9 ILF3
NFATC1 PPP3R1
FBP1 ATP5J2
FES IRS1
PPM1G MTNR1B
TP73 C4ORF41
APBB1 CLSTN1
KPNA6 STAT3
ACVR1 IGSF1
SRRM1 SMC3
RABAC1 RIMS2
MATN2 MATN4
VIM PSME1
SMAD3 LGALS12
ABCB1 RNF2
SNRPD1 GEMIN5
MYC ELF3
MAP1LC3C ATG10
MAX PLEKHA5
TFPT RUNDC3A
C9 CD59
TYRP1 GIPC1
RRP8 SUV39H1
GSK3B CDK5
CETN3 SIK2
SHQ1 WDR48
GMNN HOXC8
HIST1H3J EZH2
MAP2K3 DCTN1
GMNN HOXC9
MTUS2 C1ORF216

YWHAE HDAC9
GMNN HOXA11
LRP1 SNX17
KIT MATK
RNF103 UBE2W
ALDH2 UNC119
SLC22A3 NCK1
LAMA3 SLC35E1
TAF4 SAP130
A2M CELA1
PMF1 COPS7A
PTN RBM23
ARIH2 UBE2D2
CRP FN1
TNFRSF9 TRAF2
FAIM3 ANKRD2
GABRR1 SLC6A9
GRB2 MLL3
MTA2 SATB2
LDB3 ACTN2
FTSJ1 SRPRB
SLC9A3R1 GNB2L1
SCUBE1 SCUBE2
CRP C1QA
CRP APCS
PRKAR1A AKAP11
PRKCD TIAM1
SIK1 CRTC2
PCYT1A CASP8
UBE2D2 POLM
IMMT GSTK1
PRMT5 CAPN1
POLE2 TLE1
E2F1 KAT5
NEFL NEFH
FBN2 SMAD2
SMAD3 MTF2
BAG6 CDK4
SSSCA1 CCT7
CSNK2A1 ERH

ZNF91 MAP4K3
NCOR1 THRA
APPBP2WDR24
GMNN HOXA7
NCOR1 THRB
RBBP6 MAD2L2
ARHGDI1 RHOH
GMNN HOXA10
ERBB2 HSP90AA1
FES RASA3
PGR CDC25B
NAA38 SART3
USP13 KCTD3
RNPS1 GPATCH8
EPS15 ELF3
PLEKHB2 KRT82
MBP PRKCI
MME ADCYAP1
GLRX3 PRKD2
YWHAB CAMK2B
ETS1 SERBP1
PSMF1 TRAF2
CDK1 CCNA1
UBC KLF1
PAPSS1 EEF1A1
UBE2G2 AUP1
PRPF40A CUL1
ADRB1 SH3GL2
ADRB1 SH3GL3
CSK ARRB1
MPZL1 EXOSC4
YWHAZ AHNAK
EEF1A1 PABPC4
NUDT21 RPF1
DDX3X PIN1
CD79B PTK2
ABCC3 MLH1
MDM4 YWHAQ
CAPN3 YWHAQ
SIM2 ARNT2

MMP13 LRP1
CRIP2 PTPN13
SOD2 SCRNI
MYLIP CNPY2
PTPRC CD247
ATG5 STOML2
CALM2 CACNA1C
TP53 UBE3A
HDAC4 REST
CD9 CD82
EIF1B RPS19
YWHAZ PRKCZ
ARNTL SUMO2
RPL22 PINX1
AGRN PDIA3
MCM5 USP7
NEK9 GABARAPL1
CCDC85B COPS4
MAPK1 RPS6KA3
CCDC85B SYT17
IL1RL1 MYD88
HIST1H4I EP300
RHOG PLD1
NCK1 FLNC
TFRC TF
UBE2D3 MKRN3
GLRA2 FBXL15
FGF2 SDC1
APC LRP8
TGFBR1 PAK1
RXRB ATP5I
GNAI3 GPSM2
COL4A3 HABP2
PRMT5 JUB
GDI1 CDC42
CCAR1 WWTR1
EGFR ACTA1
PRKCE TRPV1
RPF1 PTEN
RGS20 RUVBL2

MECOM HDAC1
CCDC85B TCHP
IKBKE CCDC58
MAX TRRAP
HSP90AA1 IP6K2
VCL PTK2
TCEA2 DNAJB9
ARHGAP31 SMURF1
NUP62 IK
DLEU1 TLE1
HNRNPH1 SUMO4
CCND3 CDK6
TRIM22USP7
BLOC1S2 PLDN
UBE2L6 RNF150
PTPN3 ZAP70
PXN TUBA3C
ESR1 DDX54
PRKCG CD5
TBP TEAD1
GNB2L1 SUMO4
CCDC85B EXOC7
RNPS1 MKLN1
RNF34 DNAJA3
FNTA RHOB
OTUD5 CTPS2
MAPK14 FAM48A
AIMP2 FHL3
HPRT1 EPB41
MYST2 CEP70
ACTG1 WASF1
PFDN1 GIT1
KCNJ2 DLG3
MOBK3 KIDINS220
NFKBIE HDAC4
ITGAV PLP1
BMI1 CBX8
PTPRF CDH1
CCNK HMG20A
PCNA SUB1

SNAP23VAMP1
DRD1 ADORA1
MAL MKL2
NTRK1 ARHGAP32
RGS3 CNKSR2
RB1 PIK3R1
APC SCRIB
HECTD3 TRIOBP
CDKN1A GNB2L1
GAPDH ATXN1
ROBO2 ROBO1
EPS8 MAP3K2
GAPDH ATN1
DPM1 ZBTB16
SARS WNK1
INHBA ENG
SSTR2 SHANK2
MAP2K7 MAP3K2
RIT1 SMURF1
SF3A1 GABARAPL1
RORA PSMC5
SGTA ZG16
AR CREBBP
RELL1 RELL2
TRIM37ZNF655
POLR2F POLR2G
CFLAR USP15
ATR TELO2
CCDC85B THAP7
TBP MSX1
TNF SPOCK1
FURIN NOTCH1
PRKCG ADRBK1
HIST2H2BE GATAD2A
PCNA CDKN1C
MTA2 SRRM2
KDR COL18A1
NFKBIE NFKB1
ETS1 MED23
VAMP4 STX4

CST3 CST6
DYNLRB1 PHLDA3
PLXNA2 PDCD6IP
BCL10 AKT1
NTS ARRB2
ATP5B ATP5C1
SRPK1 LYAR
YWHAE TLK1
TP53 HIPK2
RAD9A TOPBP1
BCAR3 ACLY
NFATC2 MEF2D
TP53 CDC42
MYC MT-ND4
MED1 MED19
ACTG1 NDRG1
RAB6A RABGAP1
IRS4 EGFR
PRKCE RPS6KB2
OAT CCNA1
CFL1 ACTC1
CDKN1A SKP1
ACTN2 KCNN2
INSL6 MPHOSPH6
CCL2 CCR2
ZBTB43ARRB1
CASP1 CASP8
SMAD2 PRDM16
SF3A2 SRRT
CLTC ARMCX3
TAF4 TAF6
ATP2A2 TRADD
HSPD1 YWHAG
NAPA STX8
ARHGAP5 SMURF2
ALB LUC7L2
ADRM1DDI1
MEF2D FYCO1
TJP3 INADL
ZNF174 ZNF192

SH3RF1 SEMA6A
GRB2 REPS2
EFNA4 EPHA6
EIF3H TMEM203
USP19 CFTR
DVL2 PRICKLE1
RGS16 LYN
HOXA10 EMX1
SMAD4 STK35
GNB1 RIPK3
MED30 MED17
DYNC1H1 NFKB2
HADHA MAP3K1
STX5 IMMT
KRT37 YWHAG
DDT DSTYK
RAB27A RABGGTB
HLA-DRA MBP
PLXNA2 KIAA1199
FGR DAB2
RYR1 TRDN
ZBTB2 CREBBP
PRKCB PDLIM5
TADA3 RFX1
PABPC1 DYNLL1
MYCN FBXW7
PPP2R1B MOBKL3
RARA IRX4
TRAM1 TRAF6
APP ITM2B
MED25 MED29
ATRX HDAC4
CELF3 C14ORF1
NGFR RTN4R
DDX5 NCOA1
PIAS1 SNIP1
BCL2L1 BMF
HIST1H4I TP53BP1
CRK BCAR1
CDK1 DUT

SFPQ RELA
CLTC REL
PMPCA MARK2
SIRT2 RTN4
HECTD3 STX8
ESR1 HSP90AA1
MEIS1 ETS1
YWHAQ E2F1
UBQLN4 KLHDC5
EIF5A XPO4
EGFR SH3GL2
SIKE1 STRN4
EEF2K MAPK8
LCK NR2F2
EEF2K MAPK9
EIF3H EIF3A
TF IGFBP4
MOBKL3 FAM40B
USP7 RADIL
ANXA1 ATG4B
MYF5 ELSPBP1
SMAD9 CAMSAP1
DEDD PAM
PTPRC RASA1
TTC28 BRE
HOOK2 RIBC2
KHDRBS3 HNRNPK
IKBKE SND1
SKIL SVEP1
LATS1 CDK1
CD8A PTPRC
AXIN1 BTRC
HLA-A B2M
ATP5A1 MLH1
ADRB1 NOS1
FAM58A NUCB2
PAK2 ABI1
NFE2L2MAFF
MCM3 SSRP1
EIF3A FBXO32

NDUFS8 GEM
KIF5B IKBKG
TUBB SYT9
PTBP1 SRRM1
PAICS FXR2
SMPD3 PLEKHM1
GTF2F1 AHR
ARL1 COPG2
VIL1 JAK3
KLF6 CELSR2
TLX2 TLE1
ACTN1 GIPC1
XRCC6 DLX2
PML RUNX1
KLK3 IGFBP3
TUBG1 BRCA1
MYC CHD4
CAST KIAA0101
DDX27 LYAR
USP39 DDX23
COIL FHL5
CCNT1 PMS1
RAP1A RAPGEF4
WDTC1 DDA1
BCAR1 PTPRH
TRAF2 MAP3K5
TFE3 SMAD3
PFDN1 MED31
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GSTP1 MDM2
UBE2L6 CBLC
CDK2 CCNB3
BACE1 SELPLG
RPL30 RELB
MLH1 NDRG1
KIF4A DNPEP
NLRP12PYCARD

SMARCA4 CDYL
PRMT5 YWHAG
YWHAZ CHAF1A
ENC1 RB1
BIN1 RAP1A
ATG12 CCDC59
GABARAP KBTBD6
MAPK1 PXN
CLDN3 WNK4
FLOT1 CBL
C7ORF50 LYAR
TRIM27MCOLN1
SMAD4 UBE2Z
POLI POLQ
NTRK1 PTPN11
FYN CD2AP
CLDN6 TJP1
HNRNPH1 CDK9
PTCH1 SMO
NR0B2 SIN3A
MEIS2 HOXA13
HAP1 CDK5RAP2
NFKBIE FBXW11
BAI1 PHYHIP
GEM NDUFAF3
MAPK1 DUSP3
UBTD1 UBE2D4
EGFR MAP3K14
PDPK1 CDAN1
DTNB HMG20A
WEE1 CDCA3
DLGAP1 TANC1
MSH3 MLH1
COBRA1 WHSC2
SYNCRIP HLA-B
ZBTB7A SP3
NR4A2 RPS6KA1
FAS RAP1A
ZBTB7A SP4
SKI HIPK2

YWHAB DYRK1A
TCEB1 HIF1A
YY1 CTCF
ADPGKUBQLN4
CPSF7 SORBS3
ATG12 HNRNPA3
LCK DOK1
NPPB NPR3
PSMA7 PSMB7
GRIA4 LGALS12
SRSF1 NXF1
CHEK2 TP53
KCNV2 KCNF1
TELO2 MAGED1
RFC5 TSC22D1
PAFAH1B2 SLA
SQSTM1 EMILIN3
TBP TAF8
CDK1 MAP4
CYP27B1 PSMC5
CREBBP PIAS3
TUFT1 TFIP11
MYOD1KAT2B
RPL22 GABARAPL2
UBE2L6 UBE3A
TACR1 TAC1
LIG4 PRKDC
SMNDC1 NINL
SMC1A RPGR
EPB41 TXNDC17
RGS3 GLS2
STIP1 SUMO4
SCAND1 ZNF434
TUBB YWHAZ
BCL2L1PGAM5
GRB2 CYTH2
SNX2 TSC22D1
DSG1 DSC2
KIF3C CDC5L
BRF1 GTF3C3

BRF1 GTF3C5
CDK9 IGF2BP1
MEPCE TBC1D15
NCOR1 ETV6
TMBIM4 PTPLAD1
CTNND1 CTTN
MZF1 SCAND1
HDAC1 ESCO2
PRNP ZNF192
CRYAB CRYGC
CASP1 PSEN1
JAK2 CCR2
PLD2 RPTOR
MAPK3 BAZ1B
SOX9 SPEN
STMN1 PPARG
CDK9 CDC73
TAF6 TAF10
NPHS1 MAP2K6
TRAF1 TNFRSF12A
EIF1B F8
YWHAG PPP1R15B
HIPK3 LIMD1
HSP90B1 SMARCA4
CDKN2A CDKN2AIP
APAF1 CASP9
SNX15 RABAC1
SOD1 SSR4
NCOR1 KDM5C
U2AF1 RP9
CBX1 ARL5A
KAT2A USP22
TUBB ZAP70
MDM4 USP7
AKT1 FOXO4
PSTPIP1 HSPA1B
TNF TNFRSF1B
NDUFA6 TBPL1
SMARCA4 NCOA1
AKT1 XIAP

RNPS1 WDR33
AP1G1 AFTPH
RHOD HRAS
SH3GL3 C11ORF68
KDM1APRKCG
ARIH2 RPS27A
RAD23B OTUD1
AHR NCOR2
SUV39H1 HDAC9
RPL8 C11ORF49
TRIM37MCM10
RPL31 ASF1B
OXSR1 WNK1
UBE2V2 SIAH1
USF1 CHD8
UBC MAP3K1
YWHAB RIN1
FGFR3 CCDC17
RND1 ZNF182
FLG VHL
ABL1 NBEA
ATIC IKBKE
RPS27ASMAD3
PLG PLAU
ATXN7 CRX
CUL4B AMBRA1
AKT1 PHB2
EIF1B HPRT1
MAP2K7 MAD1L1
CDC7 ORC6
TLR2 TLR6
EDN2 KEL
GOSR1 DSC1
COBRA1 TCEAL2
SHC1 IRS1
NFASC GRB2
PCBP4 QKI
CREBBP NCOA3
RNPS1 ZNF490
ITGB1 HSPD1

RALA ARF1P1
KLK2 SERPINA4
PPP1CALMTK2
GRB2 SEC62
PFN2 FHOD1
CNOT4 CNOT1
CEBPD CREBBP
TCEA2 PNN
LGALS8 TGIF1
CSNK2A1 PPP1R8
PTPRB MAGI3
IGF2R GGA3
YWHAG EEF1A1
FOXP1 NCOR2
MED10 MED29
ALDH7A1 UBA5
SPOP AR
PLEC PLEKHA5
TRAPPC3 CAD
YWHAZ MAP2K5
PSMD11 ZBTB16
MED29 MED13
UBE2D3 MAP3K1
TLR4 CNPY4
CSNK1E CCNA1
TP53 DAB2IP
GMEB2 GMEB1
PRKCD PAK1
PBX1 SMARCA4
ACTL6A YY1
YWHAZ PAK1
TRADD KIAA1967
NUP62 GORASP2
ZNF259 SUMO4
PCGF2 USP7
BCR SOS1
EXOSC10 USP21
EIF3D EIF5
HEXIM1 MEPCE
PLSCR1LASP1

TTR FEZ1
KIF1B YWHAG
KCNH1 KCNF1
HSP90AB1 FASN
NDUFA9 MAGED1
DTNBP1 ABI3
PLG PLAT
VDAC1 IKBKE
HDAC3 PRAM1
TANK IKBKG
OFD1 KIAA1377
TLE1 DAZAP2
DTNB NUP62
PALB2 RAD51AP1
BIN1 PLD2
IL4R IL13RA1
POLR1A RPAP3
VIM TCHP
ITGB1BP1 ITGB1
ABLIM1 HOOK2
SPTAN1 PLEKHA5
TBX21 ZNF490
PSEN1 CTNND2
SLC38A1 KIAA1377
HIST1H4I NAP1L4
GATA4 ZFPM2
TAGLN2 TRAF6
TP53 ACTA1
DRD3 GNAI1
EPHB2 ITSN1
CDKN1B CUL4A
HIST1H3J SIRT2
PLSCR1SF1
ZFYVE9 STX3
ENAH BAIAP2
ST3GAL3 SCAMP2
CYP27B1 PPP1CA
TAL1 CHD4
ORC5 MCM3
GRB2 PFDN5

FYB WAS
AK2 TRAF6
TLE1 MORF4L2
C1GALT1C1 C1GALT1
RPS6KA3 ZMYM2
NCOR1 TAF9
VAV1 RHOA
SPTBN1 DCTN1
GATA2 KAT2A
NDC80 SPC25
THRA RPS27A
ARIH2 RPL8
CTNND1 SRC
SVIL LUC7L2
HDAC1 SMARCC2
TGOLN2 ABL1
HTR7 GPRASP2
U2AF2 SMAD5
EP300 TGS1
CAPN1 BID
ATE1 VHL
FAM46A RNF14
LZTR1 WWP1
DLEU1 GDF9
WAS SNX9
ST13 RAPGEF2
ABCB7 FECH
RIPK2 TUBA3C
RBX1 SMAD3
RAP1GAP ZBTB12
SPI1 CSNK2A1
HIST1H4I MAP3K3
CACHD1 KIAA0240
MED1 MED18
KRT2 MDM2
KRT18 PKP2
EEF1A1 SMAD4
SDF4 MAP4K5
DDX58 ISG15
SMARCA2 NONO

ACTB CLIC4
KRT4 USP25
CCT2 MEPCE
PDCD6IP GABARAPL1
HOXD3 DDB1
ITGB1 ITGA7
ATXN1 NLK
TRPA1 CYLD
ALPL MAP3K14
TMPO GMCL1
ACTB SCN10A
SSR4 PRKAB1
FGFR1 FLRT3
PRNP WDR5
PPP2CACCT7
GSN SRC
CYP4V2 SIN3A
ZG16 UBQLN4
TBL1X HIST2H2BE
TLR4 MAPK8IP3
MED6 MED25
RAB25 MYO5B
TGFB3 TGFBR3
SNTA1 DTNA
FSHR GRK4
KIF5C CSNK2A2
RHOG SMAD4
CASP9 NOD1
SPI1 HOXA10
ESR1 MUC1
SREBF2SLC41A3
ASNA1 SERP1
ATP5C1CHMP2B
PPP2R2A NDRG1
VHL HIF1A
HSF1 TAF7
FYN SNX8
RSL1D1MAP3K14
CCNDBP1 DAPK1
ST13 TRAF6

NOLC1 E2F4
CBX1 DNMT3A
CCNB1 MAP4
ARRB1 WNK1
AKT1 MAP3K5
CDH2 BOC
HIST2H2BE GATAD2B
MAPKAPK5 STUB1
FYN NFS1
SYK LAX1
PRPF3 MEPCE
FYN DAND5
FYN GPR45
PABPC1 TNRC6C
CDH1 BOC
MED22 MED27
NOS1 PTPRN
DNM1 SH3GL3
DNM1 SH3GL2
DNM1 SH3GL1
MCM4 CDC5L
RAB11A CHMP1B
MED10 MED9
CRYAB HSPB8
MTOR DEPTOR
UBA1 NEDD4L
ZNF496 PHF15
NRD1 HBEGF
TRIM24ZNF10
DUSP27TRAF6
TAF13 SMARCC2
FOS OPTN
SORBS3 DDX17
UBE2I PDLIM7
EEF1D ELF3
POU3F3SOX10
SNAPIN IMMT
ABL1 HEXA
CASK LIN7C
YWHAZ LCP2

TP53 WDR48
CDK2 CDX2
SON TRIP6
APP CAV1
LRSAM1 UBE2W
UBE2D1 RNF166
VHL FSCN1
WTAP CPNE1
RPS19 VHL
MAPT DCTN1
MAP4K4 KIF26B
DNMBPNCKAP1
DISC1 EXOC1
PAK4 ITGB5
AR RBAK
YEATS4 MLLT10
EP300 CITED4
RBMXL2 TRA2B
CCND1 HDAC1
MTOR RHEBL1
CACNA1G WNK1
PRKCZ SQSTM1
CDH1 USP9X
STAU1 RPS6
MAX SHANK1
TP73 RANBP9
NEDD9 ITCH
MSN PRKAB1
DCN FBN1
PSEN1 TCF7L2
PLK1 ECT2
DAND5 EXOSC10
MCC PCBP3
UNC13B STX1B
TUBB DYNLL1
CCND3 DTNBP1
SOS1 RIT2
SETDB1 ECSIT
RAF1 PBK
HPN F7

DST RNPS1
GLS SNTA1
CCND1 NEUROD1
SNAP25STX4
CCL11 TPI1
MYH9 NFKB2
BMP5 NOG
POLR2E LZTR1
SF3A2 SF3B5
SART3 RNPS1
MTOR PA2G4
NFKB1 NCOA1
RBP1 SIN3A
CSK CAV1
PTPN4 EEF1A1
MLH1 MSH2
PCF11 SRRM1
PRPF4 WBP4
GPAA1 PIGT
TRAF2 MAP3K14
H2AFX PBK
PRKG1 SEPT3
PTPN1 CTNNB1
KRT18 PRKCA
VHL GDI2
TOP2A RPS27A
NFKBIE VCP
RPP30 MAST1
COMT LITAF
NR3C1 POU1F1
ORAI1 TRPC6
HCK CSK
HNF1A PCBD2
EIF4A2 GIGYF2
RUVBL2 NFKB2
PRSS1 YWHAG
TP53 ZNF420
SMAD7 ERBB2IP
CUL3 PGAM5
CDK8 MED12

TOM1L1 UBXN4
LMO4 NHLH1
ACTB PCYT1B
HIST1H1T GSK3B
CSNK1D BACE1
CRH CRHR1
RAC1 CAV1
MYOD1CREBBP
PRKCE GAD1
RYR1 RYR2
BRF2 COPG
MEF2C ZNF423
BRF2 AUP1
CCND1 RUNX1
CYFIP2 C3ORF10
ATP1A1 TNFRSF1B
VAMP7 STX3
FSCN1 TNIK
DNAJC14 WNK1
MCC PSME3
MCRS1 UPF3B
MCM7 CNOT8
TNFRSF1B HIVEP3
ID4 HES1
LINGO1 KRTAP4-12
CD2BP2 SFPQ
RB1 TOP2A
GABPB2 CIC
MINK1 CASKIN1
CALCA BBS4
BRCA1 TRRAP
ACTL6A TRRAP
LMO4 HDAC2
ANXA1 PRKCI
PIK3CDNCK1
FBP2 CHD3
CASP1 PSEN2
ADAM10 SH3D19
PLCG1 RPL13
BAIAP2ESPN

TCF3 MAPK3
SLMAP SIKE1
PLK4 SMAD4
CTSD IGFBP4
WASF1 CYFIP2
CREB1 POGZ
GAPDHSIAH1
NCOR1 ETS1
BRF2 TNPO3
SSR4 PHLDA3
CYBB NCF2
VIM SYN1
DNM2 CTTN
HNRNPK QKI
HNRNPL PTBP1
CREBBP GMEB1
CADM1EPB41L3
LIMS1 RSU1
APLP1 DAB2
UBOX5 VCP
MCAM UBE2O
ZMIZ1 PIAS3
EEA1 ZFYVE16
PDRG1 RUVBL2
SLC6A4STX1A
MAML3 NOTCH3
STRN PPP2R1B
STRN PPP2R1A
PSMD10 ELOVL1
PIAS1 ZNF76
PRKCZ PPP1R14A
NDC80 AMOTL2
MYC GTF2I
HNRNPA1 KIAA0368
TNFAIP3 TNIP1
EP300 COPS6
NCK1 EHMT2
CD44 CSK
RBL1 DYNLL1
RELB SMARCD2

RELB SMARCC1
NUP62 KPNB1
NFYA USF2
DVL2 TP53
ST13 PRKAB1
MLXIP MLX
SMC1A USP13
FKBP4 GLMN
EPB41 MRP63
VPS4B CHMP1B
MED1 MED10
TFF1 GKN2
DDN SH3KBP1
VIM PRKACA
CD44 GARS
UBE2H RNF185
STAMPB CHMP1B
AR NSD1
CDH1 ERBB2IP
TAF6 CHD3
CTSL1 IL8
TNFAIP3 YWHAE
DNM1L MAP3K10
CCNA2 FEN1
CDK8 MED20
CCNA1 CUX1
LAMA5 LAMC1
TLR2 NDUFA2
TSPYL5USP7
RPS6KB1 TRAF4
DEPDC1B UBE2D1
WASL ABL1
NR4A1 BCL2L10
TBP PSMC2
WAS VASP
TMBIM4 ORMDL1
RBL1 YWHAZ
IPO5 GABARAPL1
SUMO2 ZBTB2
CEP250 SIK2

CUL3 DCUN1D1
HIST2H2BE VRK1
KNG1 CTSO
TFE3 VARS
SERPINB4 BTRC
GABARAP DMPK
FLT1 SHC1
TAF12 TAF8
FLII TRAIIP
MARK1 USP21
REST HDAC5
SMARCD3 NR1H4
LTF LCN1
MYC MAPK3
WDR5 GRWD1
GATA4 EP300
SLC38A1 C9ORF46
USF1 NFYA
LDLR CREBBP
XRCC6 SIRT6
TNKS TERF1
JAK2 SHC1
PPP3CACABIN1
PRKAR1A PYCARD
STK3 MAP1LC3A
JAK2 PTPN6
AR SMARCC1
EGFR NDN
HRK BCL2
S100A6 SUGT1
TAF6 SMARCB1
DHX9 MEPCE
ABHD16A TMEM222
FOS YWHAB
PBXIP1 PCBD2
ATG12 MDFI
SMPD3 MED31
APC IQGAP1
TRAF3 TICAM1
BRF2 SRPRB

TIAM1 PPP1R9B
TRIP13 SMUG1
PIN1 BCLAF1
IKBKB SMARCC1
CASP6 CHD3
LRP2 MAPK8IP1
GABARAP TUBB4
CSNK2A1 CHD3
MPP3 CCDC137
ADRB1 MAGI2
EEF1A1 TP53BP2
PML LRP1
PLSCR1 SLC25A6
HDAC3 NACC1
EPPK1 PHB2
SATB1 UBE2I
VHL MALT1
ATF2 PML
PTPN6 SIGLEC11
UTY TLE1
UTY TLE2
CREBBP NCOR2
TCERG1 BRD4
ZNF41 SMAD2
RET GRB7
ITPR1 ITPRIP
PPP1CARPAP2
NFKBIE RELA
DVL2 ZNF165
ORC2 ORC6
GRB2 PKP4
REL COMMD1
EAPP UBQLN4
NR4A1 ARHGEF10L
TTN SMURF2
DLG4 MAP3K11
CD4 LGALS1
CRMP1 PMF1
HTR2A PON2
ILK COPG

ILK AUP1
TCERG1 DIAPH2
OSM OSMR
NFYC KAT2B
ACLY PRKAB1
CCND1 INSM1
RARB MAP6
NDUFB1 EWSR1
BECN1 AMBRA1
CLTA MAP1LC3A
VARS EEF1D
SH2D1A CD244
HDAC4 IKZF1
USP1 FLG
MCRS1 INO80
SMAD2 TNRC6B
ARCN1 COPG2
TCEA2 WHSC2
TLE1 PAFAH1B3
ARL2 UNC119
PXN GAB1
KCNJ1 IL16
RTN4 SPG21
SREBF1ATXN1
NCAN PTN
COIL TAF9
GRB2 P2RX7
SLCO1A2 SLC9A3R2
ATXN7 TBP
CELSR3 TSPYL4
GRB2 RIT2
CPN1 CDC42
EXOC5 PRKCG
DDIT3 BATF
PXN ILK
TP53 SMAP2
NUDT21 HDAC10
PDZD3 SLC22A4
SPAG6 SPAG16
KAT2B DACH2

PLD2 PRKCD
PCNA ATAD5
RAD51 FAM175A
YWHAG ZNF839
CTBP2 PSMF1
MCM5 STAT1
COPA TMED2
ZYG1B1 TES
USP14 UBE2V2
NCL PPP1CB
SMARCA4 STK11
COL2A1 COL6A1
STAU1 KIF2B
STK3 SAV1
LHX4 IFT172
ADAMTSL4 CATSPER1
OSBP VAPA
BIRC2 IKBKG
PSMA3 PSMA4
SOCS2 INSR
MYC CDK9
E2F1 CREBBP
MXD4 MLX
PFN2 TRAF6
COG4 COG6
CYTIP CYTH2
BRD4 KDM5B
HSPH1 STK39
ERBB2 CAV1
BRCA1 CTCFL
PLSCR1ZNF638
TOMM22 TOMM7
RPL7 RELA
PPM1G LRPAP1
PPFIA1 PPFIBP1
VASP ACTG1
SMAD2 TRIM33
TP53 RNF38
TUBA4A RBM23
DCN COL6A1

TRAF2 TCEB3B
AR KAT5
U2AF1 SRSF2
LYPLA1 ANXA2
DDIT3 MAPK14
HIST1H4I SETD7
CREBBP TAF6L
MME NDRG1
NPRL3 TP63
ILK SRPRB
UTRN DRP2
AP2A1 RAB11FIP2
PTPRC SKAP1
NECAB2 CAPN3
BRCA1 RPL31
CEBPB APOBEC3G
FYN PTPN5
HMOX2SETDB1
MAGED1 UNC5A
IGFBP3 POLA2
NFKB1 RUVBL2
PTBP1 SUMO1
TRAF2 RUVBL2
TLX2 YWHAH
TP53 FXYD6
CTBP1 CDYL
SMNDC1 RUVBL1
SMAD2 CAMK2A
KIF5C NCOA2
CNTN5 APLP1
NF2 SPTBN1
PTPRD TTN
MAGOH WIBG
MIF4GD UBQLN4
TRAF2 RUVBL1
CEBPB RPS6KA1
CBR1 UBA5
FNBP1L USP13
PHF2 RAD50
DDA1 PA2G4

HSPA9 NFKB2
PRMT5 PHYHIP
PFDN1 GPRASP1
ABCG1 ABCG4
CREBBP IKBKG
WASL NCKIPSD
AP1S1 IKBKE
IFNAR1ZAP70
PTK2 BIN1
VPS41 UBE2U
VPS26BVPS35
THBS1 LAMB3
GFAP PRKACA
DAND5 ATF7IP2
HOMER1 AGAP2
RUNX1T1 NECAB2
KEAP1 BTRC
RAD51L1 HIST1H3J
NFKB1 RUVBL1
CHGB POLR2E
H3F3B CBX8
BRCA1 RBBP7
NCK1 FCGR2C
IL5 CSF2RB
PSMB5 UCHL5
NCK1 FCGR2B
STRN3 MOBKL3
FYN WASF2
ARRB1 GNMT
GIPC1 NTRK1
E2F1 KAT2B
E2F1 KAT2A
PRIM1 MRPL38
SH3RF1RACGAP1
HTATSF1 EEF1D
IMMT PHLDA3
CCDC85B ZNF426
CD2BP2 AKNA
SMARCA2 ZMYND11
RPL23 BCCIP

ACTB WASF2
SMARCA4 SMAD2
FLNA SIGLEC10
TAF1C RRN3
CDK2 CDC6
MLLT4 RRAS2
SMAD3 BTRC
ATP5B PSME3
TIMM50 PELO
PPP5C CPNE2
PSMD7 USP14
SMAD9 C10ORF2
HLA-A RPS27A
STRN SLMAP
DLAT PDK4
MAVS CYLD
PDGFRB RASA1
GRIN2A DLG3
PJA1 MAGED1
VPS28 VPS37C
CD22 PIK3R1
PSMD8 ARF6
ABCA1 SLC25A34
RNF4 UBE2D4
RAP2A SMAD1
STAMPB CHMP4B
NFKB1 BTRC
PIN1 CDK12
CREB1 PRKG1
UBE2I MDM2
MAX MAD1L1
THRB HDAC2
CTNNA1 CTNNB1
EEF1A2NFKB2
VIM RAD51
COL1A1 ITGA2
CSTA KRT1
S100A10 PLA2G4C
CDK14 YWHAH
DYNLL1 EEF1A1

PPP2R2A RRN3
TCAP TTN
CSNK2A2 HSPH1
NFKB1 NFKBIB
CSNK2B CDK20
UTRN SNTB2
NFKB1 TRIP4
MED24 CDK8
UTRN SNTA1
MAML3 ZBTB1
HLA-B RBBP7
NR1H3 BARD1
PDE5A CASP3
F10 GGCX
BACH1 DEPDC1B
TNF ATP2A2
RAF1 VAV1
BMP7 SMAD3
GCA ATXN1
WDR47 CHFR
NAT9 C14ORF1
PAFAH1B1 DCTN1
DTNB SNTA1
TLR3 RNF216
MED10 MED17
PAFAH1B1 DYNC1H1
DDIT3 HSD17B14
PTPN1 CSNK2A2
UBQLN4 CCDC14
TNFRSF10B TNFSF10
PRKAR2A AKAP9
SQSTM1 LLGL1
TCF3 MDFI
CNNM3RBPMS
DLST MAPK14
STRN FGFR1OP2
BRCA1 HIST1H4I
KIF5B RAPGEF2
DKC1 SSR1
HSP90AB1 TAF10

ANK1 TIAM1
HOXC11 GTF2H1
CDC20 KDM5B
SMC4 DNMT3B
CRB3 PARD6A
YY1 HDAC4
MMP2 KISS1
MAPK1 SREBF1
CDH1 MAGI1
UBE2H RNF6
CD40 TRAF1
JUND TBP
MED14 UACA
USP54 CHMP5
ADRM1 PSMD1
GHR PLCG1
PCBD2 MED4
ATG12 HNRNPAB
IRF2 EP300
TAC1 TACR2
PSMC4 PSMD10
CSDE1 MCC
GATA2 CREBBP
SMO PTCH2
TRDMT1 UNC119
UBE2I RNF133
SPTBN1 IKBKE
NR5A1 ZNF653
PAX8 UNK
EGFR PDCD6IP
SLC38A1 FTSJ3
DNM1 ASB13
STRN3 PPP2R4
HSP90AB1 TRAF2
SLC3A2SLC7A5
SETDB1 DNMT3B
PTBP1 YWHAZ
POLE2 C14ORF1
KIT DOK1
RARA NCOA6

NCK1 DAG1
EP300 MN1
GRK5 CABP1
FYN FAM110A
TP53 INGX
NPM1 PIK3R1
MAPT CASP1
MAPK14 MYEF2
RHOG IQGAP2
PLA2G2A PLA2R1
CDK2 CCNA1
USP1 PKP1
EIF1B GOT2
PIK3R1 PIK3AP1
NAA10 NAA15
NKX2-1 GRB2
CDK5RAP3 WWC3
YWHAQ TUBA3C
E2F1 NCOA6
RAP1A RASSF5
TACR2 TAC4
PIAS2 SLC7A9
MED15 TRRAP
NCK1 DOCK1
EXOC5 RALA
RBL2 RINT1
NOS1 DLG4
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CDKN2C C7ORF64
SQSTM1 ASPH
PEX10 UBE2I
STK11 AP2M1
RB1 BCR
DAND5 BRCA1
RNF144B UBE2Z
SETDB1 NLK
ESR1 SOS1
EIF1B TXN
MEF2A PHB2

GAPDH HNF4G
SPTB CSRP3
HAT1 HIST3H3
TFE3 MARS
NCK1 ARHGEF7
NFYB NFYC
NCK1 CAV2
PTPRM PTPRS
CLTC C10ORF88
CAPZA1 IKBKE
VCAN ADAMTS1
HBXIP RABIF
NXPH3 NRXN1
CCNB1 RAD23A
EEF1A1 ZCCHC10
SUPT5H IK
HP RBBP6
TUBG1 CENPJ
RAB5A RIN1
PPP2CA HDAC7
ATXN7 PSMC2
PIAS1 DNMI
TCF4 CTBP1
ITGB1 ITGA9
S100B DES
CDK1 CKS2
MTSS1 PTPRD
POLI RNF11
PRKCI MARK4
NEFM MINK1
HLA-B RAB5C
HNRNP3 STK24
HLA-B RAB7A
EP300 EID2
SIGLEC6 LEP
TGFB1 TTC1
PTPN6 CSF2RB
CTSB MARCKS
IGF1 NOV
CCL2 MCM7

RAD51 BCCIP
HMGB2SET
BCL10 BIRC3
TXLNA STX1A
NUP153NUTF2
YWHAE MSL2
FEZ1 NDUFB9
TMEM132A MEGF10
DTX3 UBE2E2
HLA-B DHX9
CBFA2T3 PRKAR2A
ID2 C7ORF64
KIF2C CENPH
BCL10 BIRC2
SOCS3 JAK2
EGFR CBLC
SOCS6 TCEB2
MARS IKBKG
TTC35 WNK1
SLC9A1MAPK3
SNCA AP1B1
ATP2C2ORAI1
SNAP25STX1A
CASP1 NLRC4
SOCS6 TCEB1
BAG3 DAZAP2
PTPN2 JAK3
PTK2 NEO1
SMYD2 AKAP11
NMT1 CABP2
MCC MAPRE1
HIST1H3J PHF8
GBAS MAP1LC3B
POLA2 CRELD1
CRK SNX17
CSNK1D PPP1R14A
DBF4 ORC6
ETS1 HTATIP2
SCNN1A SCNN1B
ZMYM2 NR2E1

RARA NCOA1
SMAD1 PIGQ
SCNN1A SCNN1G
TAC1 TAC4
CTNNB1 CA9
GRIA2 GRIK5
OGT RELA
TFE3 GSTM3
DSG3 PKP3
CSF2RB STAT3
HTT EIF2C2
ELANE F2R
FDX1 FDXR
EEF1D TTC30A
HDAC3 ATXN3
CREB1 ZNF92
CD48 CD244
MARK2DTNA
RGS14 GNAI1
CDK2 SKP2
TES EVL
HNRNPD LDHAL6B
AKAP7 PRKAR2A
UTRN DAG1
MCC TSN
CDK19 MED28
BLM UBE2I
CENPA RSF1
SH3BGRL ERBB2
RTCD1 FBL
HNF1A GATA5
HSPA5 DPYSL5
CALM2 PINX1
AP2A2 EPS15
SFN KIF5B
RAD17 POLE2
WAS PTPRO
PCBP1 TNIK
CALM2 TRPC3
TNF ST13

RARB RXRB
HIST1H3J DDB1
SMAD1 ZNF251
MSH6 CREBBP
CDK1 E2F1
HIST1H1E CBX5
SFN USP43
HIST1H3J SETD1B
RNF111 UBE2E2
XRCC1 NEIL1
RGS6 STMN2
MRE11A BLM
CSNK2A1 SOAT2
MUL1 UBE2D4
YWHAZ C12ORF51
CDK5RAP2 HAP1
MCC NAA15
MCC NFKBIB
FOS PML
MYC MDN1
FLNB MAP3K1
KDM1AESCO2
KIAA0020 HPS6
RPS27A TRAF6
APC MMRN1
MYH6 SMYD2
ITGA5 RPS27A
TAF9 TAF2
CYP27B1 RXRA
CBL STAT5A
GRB2 ABI1
GSTO1 KIAA1377
SIRT1 ING1
HSPA9 TANK
PLCG1 ARHGAP32
CD79A CD19
PTGER1 PTGFR
HNF4A MED10
YWHAB RGS3
CCNT1 AHR

EP300 ALX1
ESR1 TRIM25
UNC119 RPA2
CD9 SERPINH1
ORC2 MCM10
DDB1 CRBN
ATP6V1B1 STX1A
GRB2 DOCK3
TNFRSF10A COL2A1
POU1F1PPARA
PSEN2 DYNC1H1
OIP5 RAF1
UBE2D3 RSPRY1
NECAB2 RCOR3
GRIN2C ERBB2IP
MAPK13 ATF2
PRSS23 TMEM222
PFN1 RAD51
NCK2 PAK1
ZCCHC10 THAP1
YWHAG PARD3B
SPTBN2 SPTA1
MED26 MED13L
DGKA SREK1
TPST2 CCR2
CDH1 ANAPC11
POLR1C GSTK1
YWHAG PARD3
ANK2 TAF9
PML KAT5
EIF2S1 TRAF6
EP300 TWIST1
CALM2 RELB
DDT VHL
F2R SNX1
RORA SMARCD3
TXNL4A RHEBL1
MAPK12 DLG1
DSG2 PKP3
NTRK3 FRS2

BECN1 GF11B
GABARAP SF3A1
PDLIM1 ESR1
RAP2A RALA
SEC22BGOSR1
UBE2D3 BIRC2
DLGAP1 DLGAP2
UBE2D3 BIRC3
PLAT HMGCS2
PKN3 ARHGAP26
MYH9 PLEKHA5
MEN1 VIM
OSTF1 MED28
COIL CYB5R2
YWHAG RAPGEF6
RAD21 SMC1A
STRN PPP2CA
HGS UBE2I
KISS1 KISS1R
LEPR JAK3
MMP14 CCL7
RPS27AUSP15
MMP3 ACAN
REPS2 EPN1
MARK2 KIAA0802
HTRA2 PAG1
EP300 TRIP4
FAM107A BEGAIN
RPA2 RAD9A
PAX2 BBS2
MAD2L1 MAD1L1
APC MAD2L1
ATF2 YY1
KDM1ATP53
SEC61BTRAM1
EEF1D PHF23
APC COG4
CYBA RPS27A
RGL2 CCDC90B
PDHA1 PPAPDC2

GBAS GANAB
MYOD1CBX1
DDX21 CDC42BPB
EPS15 NAGPA
BMP4 CHRDL1
VCP HDAC6
MYST2 NINL
TP53 CEBPB
COPS6 DDA1
TP53 ZCCHC10
GSN CSK
LMO3 MDFI
CIC ZNRD1
PTK2 DDX17
GPBP1 MCRS1
LYN RPS6KB1
AXIN1 PIAS1
LONP1 CDC37
NCK2 CBLB
CDC16 SMAD2
MRPS21 USP44
RELA AES
VDAC3 GSTK1
GRB2 PABPN1
SRC ZP2
MAPT RPS6KA1
CDK1 STMN1
MAPK1 TNIK
NR3C1 NFKB1
MCC CLIC4
GHR PTPN3
UBE2D4 TRAF6
S1PR4 GNA12
FLNC SGCD
TRIP6 STAC
LIN7A BAIAP2
BMPR1B SMAD7
GOLM1 ELAC2
SLC2A4MVP
DPPA2 VTA1

ERCC1 ERCC4
CTNNB1 ERBB2IP
CRYBA2 TRIP13
TAF10 TRAF3IP1
UBE2D4 RNF115
PDGFRB PTPN22
POLR1C POLR1D
MAD2L1 DYNC1LI1
PML PAWR
USP14 ADRM1
BMPR1B CDK4
TERF1 ATM
CREB1 FHL2
LAPTM5 ANKRD13A
SAP30 NCOR2
RBL2 E2F4
PYGM INPP5K
MCC SUPT16H
FGF2 CSNK2A2
RAB5A ZFYVE20
NCK1 GLTSCR1
SSB TNFRSF14
CEBPD SPAG5
CCDC33 HOOK2
HCFC1 CREBZF
CPSF7 GCC1
AP1S2 AP1S1
IPO5 TANK
PPP2R5A SGOL1
TYK2 IL6ST
CSNK1D AKAP9
KIF1C YWHAZ
PTN UBQLN4
EZR DLG1
ERBB2 STAT3
RADIL ASCC2
MDM2 TRIM28
TNFRSF1B ATP5A1
ANP32A HSPB3
TBL1X CACYBP

RPN1 ARF6
PSMD12 PSMD6
CSNK2A1 HIRIP3
OSM COL4A5
GNAO1 OPRM1
RPL31 LYAR
JAK1 IL5RA
IGFBP5 RASSF1
NGFRAP1 TRAF3
PELO HEATR1
DCAF7 DYRK1B
MED27 MED10
RXRA MECR
SRF KAT5
CDKN2C DRAP1
RAE1 NUP188
SRP72 FCHSD2
HSPA1B RHOA
RASA1 ABI1
PRMT5 MYOD1
UBE2U MYST3
HSPA4 RELA
PRMT5 MYOG
STAT1 SHANK1
RGS16 GDE1
RTF1 LEO1
MEF2D SENP3
MAP3K3 IKBKG
MTA2 NR4A1
NDUFA1 SMURF2
IFNG IFNGR1
YWHAE RICTOR
DLGAP1 SORBS2
NCK1 NCKIPSD
RPS27L IKBKG
CAPN1 F2RL1
CDK1 HIST1H1A
WWP2 ATN1
CDK2 ATIC
PAX9 FUBP3

ATG12 GABARAP
PEX19 CDKN2A
IL1R1 MYD88
GPAA1 PIGU
GRB2 MAGI2
SREBF2 ABLIM2
FBXW4 RNF32
EIF2S2 APLP1
WDR82 SETD1B
PIK3R2 IRS1
YWHAE NCOR2
EIF5B EIF1AX
HSF1 SYMPK
YWHAE FHOD1
HSF1 CREBBP
RAD21 ESPL1
AIFM1 MAP3K1
MYB MED15
TRAK2 GABRB2
CRKL MAP4K1
UBE2L6 TRAF7
SMAD1 PARD3B
NBN MLH1
NEB TMOD1
PDE1A CALM2
HABP4 PRMT1
WIPF1 HCK
ATR POLN
MYH9 OVGP1
HNRNPC TNFRSF1B
POLR3A RPAP2
NFKBIA HDAC2
IRAK2 MYD88
FXR2 CCDC33
PLA2G4A MAPK14
RET PTPRF
HLA-B PSMD13
BCAR3 IARS
ATF2 JDP2
SNCA TUBA1A

RANBP6 SMAD2
PINX1 PFDN2
CLDN4 SHBG
MTA2 BCL11B
PPP2R1A PRDX1
AIPL1 NUB1
CAPZB UIMC1
HSF1 HDAC2
ILK RSU1
COPS6 CCDC106
GADD45G PCNA
APBB1 DDX17
CDC20 ANAPC1
CSNK1A1 KPNA1
PTN RIT1
MED10 MED11
CASK ARHGEF7
ANXA2 GABARAPL2
RPS28 KRTAP4-12
TAF1A RRN3
MUC1 GALNT12
NTRK1 PTPN22
HGS CCDC33
RGS16 GNAI3
S100A1 CACYBP
CALM2 CAMK2G
TNPO2 AICF
STK16 TGIF1
NCK1 SEPN1
TUBA4A TBCB
APP BACE2
CDKN2A CDK6
CSN3 CSNK2A2
THRA AKAP13
AIFM1 NFKB2
RGS2 GNAQ
SOCS1 KIT
LRPAP1 SORL1
ACTN4 MAPK14
MAP3K7 CAD

TFPI MMP8
MAPK1 PACSIN3
UBR5 MAPK1
YARS TRAF6
SMAD7 TAB1
NONO SMARCD1
RCVRN GRK6
CALM2 NEUROD1
TSC22D1 CORO2B
SFPQ FUS
PLAT SPARC
VIM TUBGCP4
PFN1 NCK1
RGS2 PPP1R9B
RAB7A RABAC1
TEAD1 VGLL1
MAP3K3 SCIN
CXADRLNX1
CALM2 DCTN2
PTPRF ZNF512B
BCL2L1 VDAC1
DNM1 PACSIN3
CDK5RAP2 C7ORF64
TAF9 TAF6L
C6ORF15 ST8SIA2
NR3C2 HSPA4
SNRNP200 MEGF10
CHEK2 RAD9A
NRP1 FGF1
TRAIP CYLD
CALM2 IQGAP2
POLD1 ATR
FOS DES
RAB8A RPH3AL
IGFBP5 PNO1
BNIP3L BNIP2
EPHB2 ABL2
BNIP3L BNIP3
SMAD7 PIAS4
VIM NUP85

PEX26 SUFU
MLLT4 RIT2
SIKE1 FGFR1OP2
FHIT HSPE1
NFKB1 TNIP2
KHDRBS3 RBMX
KRT15 KIAA1267
ITGAV NID1
ZBTB16PAFAH1B3
MED26 MED4
WWC1 EXOC1
PLAT HMGB1
GTF2E1ZSCAN1
A2M PDGFA
PCBP1 RALY
MC5R MRAP
PCNA GADD45A
UBE2D1 MUL1
HRAS SRC
PRKACA NOS1
MAGEC1 RUSC2
MCC GLOD4
MCC RNMTL1
NCOA1 NR1H4
COPS6 BTBD9
HNRNPA1 MOV10
RAF1 PRKG1
SET MEPCE
PIN1 ZCCHC10
ILK SF3A1
MLH1 PMS1
DCTD LNX1
LNX1 UBE2Z
NUCKS1 AK5
PTK2 TLN1
ZZZ3 ZNF513
LBP CAMP
POLR1A POLR2L
CDH6 CDH19
RAP1GDS1 ZNF451

MLLT4 NRXN3
KLF4 KLF6
FOS PRKACA
CHD1L APLF
CTSB UBQLN4
CA6 FCGRT
SOD1 RPS27A
HOXD4 EP300
MYBL2 CCNA1
RPA2 MCM2
GPRIN1 GRIN2A
TGFB1 VASN
RUNX3 HDAC5
PLG PCOLCE
KIAA0664 CELSR3
CCND2 CDKN2A
TTC1 SH3BP4
KCNH2 CDC73
TUB GRB2
DNAJB1 OTUD4
RNF13 UBE2D1
RPS6KA5 EIF4EBP1
RGS2 NINL
GNB2L1 HIF1A
HNRNPA1 SYTL2
NUP153 YWHAG
TFCP2 MAP1LC3C
RPL8 FGFR3
UBE2D3 CHFR
CFLAR RADIL
BMP2K KDM5B
GRIN2B ARHGAP32
TNFRSF9 TRAF3
RELN PCDHA6
VIM NOC4L
TP73 AHCY
CTBP1 HGD
DLG1 FZD4
MED14 ACTN1
SUV39H1 ESCO2

TTC3 GRB2
COMT TRIP13
EGFR VAV3
NOTCH1 POFUT1
RPS27A PELI3
SYNJ2BP LRP2
PRKACA ADRBK1
VIM UTP14A
RELA DHX9
CDC42 KDM2A
NFYB KAT2B
TRIM28 TOPORS
SFN REEP4
XRCC4 PNKP
MAPK1 ARHGAP9
RXRB PPARG
CFLAR RPS29
TOP2B BAZ1B
PDPK1 RPS6KA1
ARPC1B ARPC4
DLST RPS27A
RARA TRIP4
TRAF3 OTUD5
RANBP2 CDC42
ETHE1 RELA
SMAD3 PITX2
INSR CAV1
VEGFA AKT1
CTNNB1 HIF1A
PPP2R2A PPP2CA
GNA12 GNA13
CRYAA CRYAB
TCEB1 TRAF6
DAXX MACF1
RGS2 GIT1
MCC COPS6
CST6 CTSD
ADAM10 PHB
SF3A2 SF3A1
CFL1 CAP1

PTPN13 PKN2
RARA MED1
NEDD9 MICAL1
PTGER1 PTGER3
SREBF2CREBBP
MAPK6 NOP58
ADAM15 SORBS1
CRKL GRB2
CTNNB1 FSCN1
ATRX EIF4A2
UBE2I TSC22D1
COL1A1 HTRA1
NTN3 NEO1
RHOB SERTAD1
CBL PIK3CA
XRCC6 NOTCH1
NAP1L1 CREBBP
GTF3C1TBC1D17
ABCB5 PSMB9
GZMB CASP7
MAP3K1 TUBA3C
GZMB CASP9
HDAC11 HDAC6
CUL4A DCAF8
EP300 NCOA2
CFLAR SF3B3
FGF6 FGFR4
YWHAZ RASAL3
CTNNA1 DLG1
CTNNB1 MAGI2
MCC MCM3
CTNNB1 USP9X
STAT6 EP300
STX7 VAMP7
SMARCB1 NONO
AP3D1 ARF6
BAG6 TAC1
FLT4 SHC3
MAPK14 PPARGC1A
MARK2COL4A3BP

SFN HDAC5
MCC MCM4
HLA-B CLPP
CSF2RA CSF2RB
MCC MCM5
MCC MCM7
ZNF417 MDFI
GOLGB1 BRMS1
RPS28 PINX1
RFX3 EWSR1
SUMO2 BAZ1A
TRIM23 SF1
MLLT4 SSX2IP
PSMB6 PSMB7
RAB3A MAST1
PTPRJ GRIN2B
SRPRB STYXL1
PEBP1 PPARD
MAPK1 EP300
C9ORF25 WWC1
MCC HYOU1
PPARG NCOA6
GSTO1 C7ORF64
MED23 FOXJ3
ACSL3 NDRG1
DLG1 MYO6
JAK1 STAT3
LCK SLC6A20
AURKATLK2
TOMM40 TOMM7
SCAF4 TP63
CASP3 BIRC3
CSDA RRP1
RTN1 FAM160A2
USHBP1 TUBGCP4
PSEN1 BACE1
CD4 PI4KA
PRKCA C1QBP
CASP3 BIRC2
RAN RANBP3

MCC PSMB3
PMF1 KIAA1377
CASP3 PICALM
CDK2 ORC2
MCM7 MCM10
TGFBR1 LIMS1
UBE2I HDAC1
CDK2 ORC1
TP53 HABP4
PRNP BAZ2B
PPP2CBPPP2R5D
PSMC4 RNF2
PIK3C3 UVRAG
SS18L1 HDAC4
GFI1B PDE4DIP
NFKBIA HDAC1
QSOX1 UBQLN4
KALRN NDEL1
TCERG1 HNRNPK
FOS SET
NPM1 IRS1
CDC20 SPATC1
CASP3 ROCK1
FAS CALM2
SHBG PKM2
NAP1L1 FSD1
MARK2 UTP18
GAS7 WAS
TAF9 KAT2A
TAF9 KAT2B
STC2 ARHGEF40
ARF6 NCLN
NPM1 HSPD1
KRAS RASSF2
UBE2I TDG
IL12B IL12RB1
MEGF10 KIAA0564
ACTB RAC1
RAB3A RPH3A
SUMO2 NDUFA4L2

HSP90AB1 AARS
ITGB5 ZBTB17
UBE2Q1 RNF26
MTA2 APPL1
ABL1 EP300
EWSR1 CCDC91
MED13L MED10
MKRN3 UBE2E2
MAP2K5 MICAL3
SORL1 GGA2
SORL1 GGA1
TCEA2 CAMKV
C3 CR2
RXRA NR1H4
HDAC3 CNTN2
BMI1 PHC2
EPS15 NUMBL
PTPRS PTPRN
PAFAH1B1 KARS
NDEL1 SNX6
EMD BEND7
GRB2 STK32C
CDC7 MCM10
SORBS3 CBLB
HPCA NAIP
MAG PLP1
EEF1A1 ORMDL3
RANGAP1 GABARAPL2
FANCA PLCG1
TFCP2 OSBPL8
CFLAR RIPK2
ELANE CSF3R
HSP90AB1 PKM2
MCM6 TRAF6
XRCC5 TYK2
GRB2 ZFP37
MAZ PAK1
SRC PRKCH
MCC AK2
RHOA DOCK7

MYL6 EWSR1
SRSF4 HAP1
RB1 RBL1
UBAP2L ITCH
C1R C1QA
C1R C1QB
MYOD1PBX1
CD2BP2 USP39
ADRB1 ADRA2A
NR1H2 MED1
GRB2 PIAS3
GABARAPL2 MAP1LC3C
TAL1 SSBP2
MED26 MED30
PDGFRB PTPRR
SOD1 PARK7
ESR1 SMARCE1
COL11A2 DDR2
CTBP2 FHL3
GRB2 RIMS1
AP1S1 AP1M2
HHEX TLE1
PHB LONRF3
SORBS3 PAK2
TAL1 HDAC2
POLR2K POLR2F
SNAI1 MDM2
TGFBR1 PREX2
ATM HDAC1
ARHGAP32 ATXN1
GRB2 WASF2
SUMO1 MBD1
CUL3 KCTD11
CYTH3 IPCEF1
ATM EIF4EBP1
XRCC5 RBM14
RORA NR0B1
ULK2 MAP1LC3B
HDAC3 PPP4C
EP300 SS18

RPF1 RAPGEF6
DCTD CEP76
VIM MAN2A2
NFKB1 APC
AKT1 CASP9
MYC DIAPH3
RXRA UBQLN4
AVPR2 GNAS
ACTN1 TES
PDGFRB PTPRK
STRN3 CTTNBP2NL
MAPK4 GAB2
PIK3R1 DLGAP2
SYT5 RAB1A
PHGDH TNFRSF1B
HNRNPA0 CCT3
AURKATACC1
ADA DRD1
TARBP2 NEUROG1
CTBP2 EHMT1
FGF18 FGFR1
HDAC7 PRKD2
CTSL1 RXRA
PTPN1 RRAS2
RIMS1 RAB3C
CFL1 HUNK
TP53BP1 DCLRE1A
BRCA1 PPP1CB
APP NUMBL
SYP EPOR
STX11 PSMC3
FOS RUNX1
BRCA1 PPP1CA
VAMP1 STX4
FGF2 API5
SYN1 CAMK2G
ZBTB17TOPBP1
CANX MTNR1A
SECISBP2L TOLLIP
UBC VPS28

MLH1 BLM
RANBP10 IGSF1
UBE2D4 RNF114
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SMNDC1 SF3A3
XPO1 HSP90AB1
TP53BP1 CRB2
GRIPAP1 DAXX
DLG4 GRIK5
HIST3H3 TNPO1
HDAC7 FOXP3
CCDC158 CCDC101
STK19 PRAME
EXOSC7 DIS3
SREK1 SH3GLB2
CASP4 PSMD6
UBQLN4 CRIPT
ACTG1 RELB
PPBP EFNA1
PSTPIP1 FASLG
SQSTM1 DIP2B
HOXC8 HOMEZ
RTN4IP1 EXOC7
UBE2B RAD18
COPS5 VPRBP
NEDD8 CUL5
EPS15 DNM2
DEGS1 EGFR
DLG1 ASAP1
EPS15 EPN1
TESK1 SPRY4
NDUFS2 DMWD
SPP1 PRKCA
STRN CALM2
MDM2 ATM
SKIL XRCC6
KLF4 HDAC7
NCK1 CELSR3
TAF9 STX12
PML MAPK7

LCK IFNAR1
BECN1 TRABD
SMAD7 CTNNB1
HSP90AA1 STARD13
ASB7 RNF7
NFKBIA CUL1
PSMC4 PSMD1
OSM LIFR
HIST1H4I L3MBTL1
CSNK2A1 PPP1R1B
MLLT6 MED15
RNLS MAST1
SRC FASLG
RPL5 PDCD4
BEND5 CTNNBIP1
JUND COPS5
CENPA SHCBP1
LZTR1 IKBKG
PPIB TMBIM4
PIK3CDIL3
GTF2F2 CKLF
PRKRIR DNAJC3
SAP18 EIF3E
PABPC1 PAIP2
EIF4E2 EIF4EBP1
VIM DPPA4
INHA INHBB
BACH2 NCOR2
DAP3 PPARA
SUMO2 DCD
CD44 ARHGEF1
ADAM23 PRNP
USP19 SEC61A1
FKBP1A FKBP4
RELA PPP2R5B
MAPK6 R3HDM2
HDAC11 CDT1
HGS USHBP1
BRCA1 SMAD2
BMP4 TWSG1

TOP1 CDC42
STT3A HJURP
USP39 DHX38
BMP2R2 LMX1A
MYO1D1BHLHE41
SNRNP70 SMAD4
RPL31 DDX56
UBE2D1 TRIM2
TP53 S100A2
UBE2D1 TRIM5
SLC2A1GIPC1
UBE2D4 TRIM17
PRKCA HES1
CARS PACSIN3
NFKBIA RELA
NGFRAP1 TRAF1
MCC CACYBP
APAF1 BCL2L10
BRAF TIMM50
CCNDBP1 ZNF334
CTNNB1 CDH24
NR4A1 PML
A2M LCAT
RPS27AGMEB1
FAM165B TMBIM4
NOS1 RPS27A
COPS3 IKBKG
NF2 GTPBP4
BCL2 PPP1CC
PSMC3 PSMC4
XRCC6 SIRT3
HAUS6 RBM7
GABARAPL2 BCL2L13
STX11 PSMA3
MBP PAK1
ITGB3BP DDX24
MAGEB2 CSNK2B
CLU LRP8
MTA2 EIF2C2
UBTF LEF1

BCR MAP4K5
KPNA6 RELB
WWP2 TP53BP2
PRKCB GNA13
VAMP7 ANKRD27
NR3C1 TCEAL2
SULT1E1 Bmpr2
HOXB9 CREBBP
TFCP2 TCEAL2
EIF3H WDR48
XPO1 PRKD2
SYNJ2 SYNJ2BP
VIM PTK2
SF3B3 TAF9
FEZ2 SCOC
HIST1H4I PHF20L1
CTBP2 AKTIP
AR SMAD3
ABL1 SUV39H2
C14ORF135 DISC1
PPP3R1 MAP3K5
MLH1 SEC61A1
IGFBP3 LTBP1
APC CEP110
COPS5 MAP4K5
LYN MUC1
HSPB3 RAMP3
ITGB2 FUT4
E2F4 DHX30
SPINT2 ITIH3
HLA-C WNK1
EREG ERBB4
FGR CCR3
CTNNB1 BCL9L
RFC5 RUVBL2
S100A8 CDK2
RPS27A USP16
SMARCA4 CARM1
USP8 CHMP1A
MYC SMC4

PPARG HNRNPUL1
SP140 SIRT2
GTF2E2 ERCC6
PRSS23 RACGAP1
ZFAND5 RAD23B
PIK3R1 JAK3
NRAS RACGAP1
MYC PDS5B
RPS27A INSIG2
ETS1 WDR17
JAG1 NOTCH2
MYC DSPP
RARA NCOA2
TCEB1 ASB3
YWHAE HDAC5
EGFR RAB7A
PAPSS2 VHL
HSPA1L TRAF2
TNFRSF9 TRAF1
GFI1B TXNDC11
CHEK2 PER3
DAND5 RXRA
ARAF RRAS2
RPA3 PRIM1
SPEN NCOR2
ALDOA XRN1
BICD2 ZRANB1
CUL1 BTRC
DAND5 HDAC4
MPZ PINX1
ENG TGFBR1
SMAD1 NAT9
RPA2 PRIM1
LAMA1 Tmprss6
TBPL1 ABCF3
ATP6V1G1 AP2B1
S100A8 USF2
CSDE1 NCK1
DNM2 FNBP1
UNC5B NEO1

PDXK PRKAB1
RPS27AKLF2
GNAI1 GPR50
TBP GTF2E2
YWHAZ ATL3
CD7 PI4KA
TBP GTF2E1
BMP6 BMPER
AQP4 CSNK2A1
BTAF1 TBP
C1QBP SRSF1
SOCS1 GHR
ERBB3 ODF2L
PAK1 KIDINS220
PIK3R1 ARHGAP32
RPS27ANCOA3
TP53 DDX5
BCL2L1RTN4
F11 HGF
UBE2I UNC119
CASP3 CASP2
VPS26AILK
CBX3 ZNF462
USP8 VPS24
BAG2 NFKB1
ATF2 CITED1
COPS6 ORAI2
COL3A1 FGF7
RET PIK3R1
CAV1 SMAD2
ATF2 VRK1
CDC27 FBXO5
UBE2I IKZF1
IRF2 KAT2A
IRF2 KAT2B
ADAM11 STC2
PFDN1 PSME1
EXOSC7 EXOSC1
IKBKB MYH10
CUL3 COPS5

BCAR1 PTPN12
MYH9 USP45
SEC13 NUP107
XPO1 ERF
ADRB2 ARRB1
CLTCL1 PICALM
PTN SLC38A1
GEMIN4 NFKBIL1
PML CREBBP
ARF3 GGA3
ARRB2 TGFBR3
ATM MYST1
FYN DLGAP2
PAFAH1B1 PAFAH1B3
SMAD2 AKAP8L
DAND5 HDAC2
NFIA CREBBP
DOCK1 WASF2
MSH6 ATM
YWHAQ HDAC7
IFIT3 APP
C13ORF33 TRAF6
PDPK1 SLC9A3R2
ACTB DYNLL1
MTCP1 EWSR1
RRP1 LUC7L2
EEF1A2 TRAF2
IKBKB IRS1
PAK1 ZNF238
TSC22D1 MAGED2
COG1 COG4
EIF3I SUMO4
SQSTM1 GRB14
POLR1E SUPT16H
PSMD13 NFKB2
PIAS2 AR
HLA-B ATP6V1A
HELLS DNMT3B
HOXD10 CREBBP
EPDR1 UBQLN4

TGFB1 SPARC
ANXA2 TRPV5
PTN GPD1
CUL3 RIT1
DAPK2 CAMK2A
SORBS2 PAK2
PTN ACTB
PDGFRB SLC9A3R2
P4HB CD1D
MGMT CREBBP
BACH1 MAFG
GRB2 NFS1
GRB2 SNX8
CD59 SMAD4
PRKCG GRIA4
HLA-C EIF3L
MLH1 RAD50
AP2M1 STON2
CCNE2 CDKN1C
BCL2 RPS27A
EWSR1 MYOZ2
CTNNB1 DDB1
CAPZA1 SH3KBP1
TBP RELA
YWHAZ CBLL1
HSPA1L MAP3K8
SLC2A4ESYT2
C18ORF8 FYCO1
HIST1H3J ING4
PBRM1 CHD7
RPL5 TNPO1
THRA ZBTB3
RAB8A RIMS2
CD19 SYK
CDK8 MED29
SPARCL1 DISC1
GSK3B NIN
PIAS1 SUMO3
SORBS2 PAK1
IPO8 TNFRSF1B

PTN ATRX
ESR1 PPID
SOX6 SUMO2
DHX15 POLR2C
HNRNPK KHDRBS1
HNRNPM SRSF2
RPS27A MAP3K4
PPBP CXCR2
PPBP CXCR1
RPS28 MEF2D
UBC ASAP1
HIST1H4I UBE2I
CCDC134 UBQLN4
GRB2 GPR45
SDCBP SDC2
FTH1 PLEKHA5
ESR1 RFX4
DAND5 ESR2
SPTBN2 ACTR1A
UBR1 NDUFA4L2
FOS EPHB2
PGR POU2F2
AGT CMA1
FAM101B PPP1R16A
TP53 CABLES1
ATM KAT5
NPM1 UBC
PPM1B VCP
BUB3 DYNLT3
RALA PLCD1
UBE2I SATB1
PLAU PLAT
RPS27A USP3
RPS27A EPN1
CHM RAB7A
HDAC4 YWHAG
ATF6 GTF2I
TCEB1 TSC22D1
PLG SERPINE1
TARBP2 RBM14

STAT2 SMARCE1
DKK1 MDFI
FADD XPO5
RPS27ASNCAIP
SNAPIN MAPK14
SFN EEF1A1
STAMBP GRB2
SYK HDAC4
PLG SERPING1
PDCD6IP CHMP4B
GABARAPL2 HBB
TP73 MTHFSD
USP7 BRE
EXT1 OSTF1
SH3GL2 ATXN2
RPS27ATAB3
CHRM2 GNA15
XPNPEP1 RINT1
PTP4A3 UBE4A
TNFSF4 TNFRSF4
GRB2 KIF3A
ERBB2 AIDA
LCK PTPRK
EWSR1 C11ORF16
TOP2B SRRM1
RORA LMO3
MAGOH NXF1
GOLT1A HLA-B
SNRNP200 SMNDC1
HOOK2 HOOK1
UBE2I SMAD4
HDAC4 SUMO2
H2AFX WRN
SUMO2 DDX21
DAND5 SUMO1
CNOT3 CNOT1
RIPK3 SCIN
HLA-A APLP2
CUL1 FBXO11
SORBS2 YWHAZ

RNF130 UBE2Z
PPP2CACTTNBP2
WDR5 PAXIP1
GRB2 FHOD1
KAT5 RUVBL1
CSNK2A2 PIN4
BLOC1S3 PLDN
SEMA3F TMEM22
ARID1A ING1
EIF4EBP1 MAPK14
BCR TLN1
HSP90AA1 PTGES3
RELA LGALS3BP
EMP3 P2RX7
DAND5 CREBBP
REN M6PR
LAMA4 UBR1
RPS27AIKBKG
HINFP TRAF2
PML HDAC2
PABPC1 CARM1
ABL1 NEK8
SNIP1 GMEB1
HLA-B RAB21
ACTB YWHAZ
DGKQ KDM5B
DCK GOLM1
MYH10 PBX1
GNG3 GNB4
ANXA3 IGSF21
GMFB CSNK2A1
FBL PRMT1
MCM6 ORC6
RBL1 NR2E3
MYC HELLS
PRKACA GKAP1
RALBP1 AP2M1
RHPN2 FTSJ1
TAL1 KAT2B
YWHAQ MAP3K3

CDC42 ZNF175
SNRPB FNBP4
AXL IL15RA
PDCD6IP MAP1LC3A
CD40 BIRC3
GRAP ARHGAP32
LRRC4C DFNB31
MITF TFE3
FYN ASB16
BCL2L1AVEN
ZBTB9 ZKSCAN5
BMI1 PHC1
ITCH SNX9
APBB1 TSHZ1
CD40 BIRC2
ALDH2 C14ORF1
RELB USP7
RELB USP9X
CSNK2A1 CFDP1
CDC42 ITSN1
OCLN TJP2
MYB SIN3A
ROS1 PTPN11
NUP98 NXF1
A2M LEP
KRT18 TNFRSF1B
PLSCR1ANXA11
EDNRA KAT5
DDX20 EIF2C2
BMI1 KIAA1377
PGRMC1 PAK2
SMAD9 ABTB1
SIP1 SNRPD2
CIAO1 FAM96A
SIP1 SNRPD1
SMAD4 SMURF1
SIP1 SNRPD3
MAPK14 ZSWIM1
ACLY ARF6
RAC3 RSRC1

MST1R GAB1
SMC1A PAXIP1
WDR48 AP3M1
SETD8 EZH2
TNK2 CSPG4
GRB2 NEK8
CHEK1 PRKDC
HSPA2 TAB2
FBN1 FBN2
DIAPH1PAX6
RAC3 RBM41
TCF7 RUNX3
SHC1 RPL22
RFC1 SMC1A
DDX3X FBXO33
APC LCP2
RAB5C EEA1
DAND5 NFKB1
CHAF1B ASF1B
CDC16 ANAPC1
CCNA1 E2F1
LHX1 FOXA2
LYN MS4A1
ESR1 WIP1
SMAD4 ZBED5
ERBB3 VAV3
RAD23B UBA3
YWHAQ LYST
CDK8 MED9
CFLAR NOD1
MBD4 MLH1
ARF1P1AP1B1
TTR APP
TGFB1 EFEMP1
FES HSP90AA1
DVL1 DAAM1
FYN YTHDC1
ANK3 SMAD2
POLR2C POLR2K
NFKBIA TUBA3C

RANBP2 ARID4B
SEH1L NUP133
FBN1 LTBP1
CAND2 CNOT3
ACTN4 INO80
IL2RA IL2
PRIM2 YWHAZ
LIMK2 PARD3
YWHAQ MAP3K5
PLEC PAN2
PIK3C2A TARS
MEGF6 CRKL
EIF1 UPF2
EGFR PTRF
GRM5 GRASP
MRPL38 C14ORF1
PPARG RANBP9
ZFYVE16 RNF11
ZNHIT1 MAPK14
PCM1 BBS2
PRKACA PTPN12
PDCD7 FEZ2
SLC3A1 SLC7A8
RELB SIN3A
CCNDBP1 MRPS9
PSMD2 PSMD13
APBB1 APP
ITGA2 AUP1
SNRPB2 HLA-B
ABL1 ENAH
PRMT1 DPEP2
MCM7 HIST1H4I
CIAO1 TROVE2
COL9A2 HAP1
PMCH PCSK7
HDAC3 TNFRSF14
SETDB1 ORAI2
COL7A1 FBXL2
ATM ATR
CLNS1A LSM10

TNPO2 PTP4A3
EZR PINX1
HLA-B KIR3DS1
EEF1D DNAJC12
BUB1B AP4B1
SLC9A3R2 TAZ
HOOK2 VPS16
NFRKB INO80
ITGB1 VCAN
ITGB1 ITGA4
NKX2-1NCOA1
CRYZ IKBKE
CLTC SCYL2
RELA KIAA1967
COPS6 TRIB3
F2RL1 RPS27A
BRCA1 MED1
ZNF219 SUFU
KLHL18 COPS6
HMGB1 RASSF4
CLDN1 WNK4
SF3A2 PNN
FOXH1 NCK1
SMARCD3 CHD7
PML TOP3A
RAN RANBP10
NOTCH1 XIAP
SYN1 S100A1
DAND5 SMAD3
TRIM21 FBXW11
ESR1 PIK3R1
PRPF3 SART3
NAA38 LSM2
TCF3 TWIST1
GALNT14 MUC13
RGS4 GNAI1
TRIM35 UBE2D4
SART3 USP39
TUB SUV420H2
ANXA5 ACTG1

ANXA5 SUPT4H1
GTF2F2 ATF2
CCAR1 FYCO1
EIF1B CAPZA1
HIST2H2BE SUPT16H
NGF MMP7
RPS27APIAS3
TNFRSF13C TNFSF13B
SKP2 NLK
RPS5 TBK1
HSP90AA1 HDAC6
EFS PTK2B
RASSF5MAP1LC3B
AXL IL2RG
GNA11 MTNR1A
BCL9 CTNNB1
MAST2 TRAF6
ETFA UBA5
ZMYND11 EZH2
STAT5B CENPJ
EWSR1 TRPV5
CCT3 MAP3K3
SRC SH3PXD2A
TSG101 DAXX
PFN1 INSL6
DEPDC1B RAD51
LDB1 RLIM
PRKAR1A SLC2A4
MMP1 CD44
AGRN PRKCB
GRIA1 CASP8
ATRX FAM190B
TP53 CSNK2A1
RARA NR0B2
NCK2 ILK
SRRM2 USP42
PAK1 NOTCH3
CDC27 FZR1
PKN2 MAP3K2
BRAF MAPK3

LCK IKBKG
NOS1 VAC14
CDC27 ANAPC10
LYL1 NFKBIA
RAB5A STX4
SMAD2 ANAPC10
UBE2D1 UBE4A
SMAD5 SMURF2
COL4A1 DISC1
MDFI TRPV6
FASN IKBKG
TTC27 BRF2
RGS4 PLCB1
EHMT2 C16ORF48
DDX5 C20ORF24
MT-ND4 PYGO1
DRD2 EPB41L1
NR3C1 TSPYL2
NTHL1 MYH4
MED24 PPARG
GATA1 AKT1
MAP7D3 FTSJ1
EIF2S1 EIF2S3
RCC1 KPNB1
HNRNPH1 REL
ARF6 MEPCE
BRAF YWHAQ
APC KIF5B
HLA-B MCTS1
HAT1 H3F3B
BCR CDC42
ITGA6 CD151
XRCC6 CDKN1A
SOS2 SNX9
RAB27A MLPH
AURKBRACGAP1
TAB3 TAB2
GNL1 PTP4A1
TAF1 RANBP2
SGOL1 AURKB

CD81 RBBP6
CEP110 CALM2
UBE2D2 BFAR
HTT CHD3
MRPS31 LYST
GCN1L1 CAMKK2
RGS12 ARAF
COL1A1 PCP2
CTNNA1 CDH15
INSR KHDRBS1
PARP1 APLF
PSEN1 FLNB
MAPK3 PTPN7
PRNP EIF2C1
APOE LRP8
CDCA3 CTDSP1
CD9 CD81
PIK3R2 SOCS1
RBM23 MED31
HRH1 POLA2
RPS27L MAP3K3
CRKL NEDD9
SSR1 IKBKE
NR3C1 MLL
IRAK2 HRAS
LYN CDK4
DAXX MAPK8IP1
PIK3CGPRMT7
FANCD2 FANCE
TGFB1 FSTL1
RIPK1 TRPC4AP
E2F3 SPIB
MAPK3 HSF4
IL2RB SYK
NQO1 ING1
TJP1 PLEC
MARK2DVL3
CDKN1A CIZ1
CBR3 ARIH2
GOLM1 B3GNT4

RCAN1 RPS27A
HLA-B SEC11A
NCOR1 NFKBIA
YWHAB TSC2
YWHAZ RALGPS2
RERE NR2E1
RAB5A TSC2
RPS16 TRADD
CALM2 MYO7A
IRF2 RELA
AMOT USP42
MAP2K1 PRKCZ
CDC42 TRAF6
STAT6 PARP14
PGAP3 BTRC
ESR1 SAFB2
PITPNAMORF4L2
SKIL C12ORF10
YWHAB RGS7
TICAM1 PIAS4
FBL GEMIN4
MARK2 ARHGEF2
KAT5 CBX8
KCNA4 DLG4
MITF TFEB
TNK2 HSH2D
UBE2D4 RNF11
DOCK1 MEPCE
CIDEA ZBTB16
NAP1L1 TTLL10
JAK1 CSF2RB
JAK1 CXCR4
SLX4 LRRC1
KRT85 ATG10
VCAN FLI1
NCOA6 SMAD2
ACTB ACTG1
COL8A1 ITGA1
RGS20 RPS27A
SERPINA3 POLA1

ATN1 EFEMP1
RAB9A PLEKHM2
ADRB2 LAMP2
CLASP1 MAPRE3
MED8 MED11
TBP KDM5A
UBE2U TRIM65
GNB5 GNG7
ABCA1 LIN7C
XRCC6 ACD
MRPL44 NFKBIL1
RBX1 DET1
AURKAPRKACA
RASGRP1 DGKZ
MAPT PPP2R5A
SQSTM1 NBR1
CCR6 DEFB1
CYLD TBK1
FEZ1 PAM16
COPS6 COPS4
RGS5 GNAI3
PRKCH CDK2
ATP1A3 ATXN1
NPR2 NPPC
SUMO1 UBE2I
OFD1 GPRASP1
CRYAAALB
NEK1 KIF3A
ASAP2 ARF1P1
AKT1 PLXNA1
KCNC1 KCNC2
ATXN1 ARID5A
RUNX1T1 UBQLN4
H2AFX DMAP1
GRB2 AP4S1
ESR1 FHL2
MCM6 MCM10
HOXC9 GTF2A1L
CLASP2 MARK2
RBL1 E2F4

TRIM23 CYTH2
TUBA4A C4ORF17
C2ORF44 RUVBL2
SMAD7 TTF1
HMOX2KIAA1377
MYB MLL
RARA PSMC5
RARB NCOA1
PSMA7 ATG5
BMP4 BGN
IL1R1 TOLLIP
IRF1 EP300
PSMB4 PSMB7
CD8A HLA-A
KEAP1 FAM129B
TGFB1 VTN
HSP90AA1 SLC2A4
SERPINB5 HDAC1
HSP90AB1 PPARG
YWHAE ATP2B2
HMOX2HAP1
SETDB1 MRPL44
FGB FGG
AMBRA1 ATG4B
LZTS2 RBFOX1
RARB SMAD2
GRAP2 RBPMS
SKIL SMURF2
GHR GRB2
ERBB3 DAPP1
SMAD3 NOTCH4
VIM SRRT
RAF1 TIMM50
COL4A1 OSM
HSF1 NCOA6
HCN2 HCN4
PIK3CDFAM195A
CDK5 CDK5RAP2
PSMB1 PSMB5
EP300 HERC1

YWHAQ KIF23
SUMO1 HDAC9
HSPA5 NFKB2
TNNI3 PKD2L1
SOCS6 SMURF2
PRKCG GABRA4
MTA2 PARK7
PGR RELA
GTF2E2 SUPT16H
SLC25A5 TNFRSF1B
FLNA WNK1
SEPHS1 C14ORF1
SIPA1L3 SFN
TGFB1 TGFB1
RXRG NCOA6
WRN TERF2
TGFB1I1 PXN
SEMA6D PLXNA1
MKI67 CBX3
MEN1 HIST1H3J
ELANE F2RL1
RASA1 SLC9A2
SMAD2 LEF1
SNAP25 ZDHHC17
CCT3 EIF2B2
SFN PLEKHF2
NEURL UBE2N
MYEF2 HDAC5
NCKIPSD BAIAP2
ARPC1B ACTR3B
GPD1 MDH1
MAPK1 MKNK1
SMARCB1 INGX
IRF3 TBK1
RIPK2 KCTD12
RNF8 UBE2E1
ERBB2 CLNK
MAP2K1 KSR1
HNRNPK UBE2I
TACR3 TAC1

SGTA BAG6
TP53 EPHA3
CTNND1 SNCA
TANK TBK1
PVRL1 PARD3
SLC35E1 ABCF3
PSMD8 PSMD4
POLR2G MED19
ATM RAD50
SYN1 SPTAN1
VIM ARMCX2
UBC PACSIN1
GBAS FKBP4
CD1D B2M
BCAR1 PTK2
PTPRJ GAB1
BECN1 TP63
EEF1A1 PHYHIP
TCEB3 NINL
EP300 SMAD2
SOCS7 TUBB2C
EP300 SMAD1
RPS6KB1 CSNK2A1
HNRNPA1 NFKBIA
SRGAP2 SLC25A12
PEPD USP7
NCK1 PLCG1
N4BP2 TP63
NCAPG DNMT3B
MED26 MED8
KCNJ12 LIN7C
SORBS3 FASLG
SYCP2 ACAA2
CDC27 ANAPC2
HMGA1 PPARG
CDC27 ANAPC5
CDC27 ANAPC4
CDC27 CDC23
CDC27 ANAPC7
NANOS3 ST13

EP300 NCOA1
ITCH TRPV4
CDC20 CDT1
TAF10 ARHGEF18
PLCG1 PLD2
RBX1 COPS6
MYOZ2 EWSR1
TMED10 GSTK1
RBMX HNRNPK
SPOP TRAF6
SRSF7 SREK1
SART3 PRPF31
PIN1 DDX24
POLR2B POLR2H
HAP1 NAP1L5
DSPP PLEKHA5
ORC3 ORC6
TAF1 GTF2A1
LAMB1 PDIA3
MAGEC1 GTF2F1
ABI1 EVL
TAL2 PCBD2
PRNP ARHGAP15
UBC RDH12
SMAD2 STUB1
RELA EFTUD2
SMARCC1 SRRM2
FGF19 FGFR1
ESR1 STAT5A
PRKCB NRG1
HLA-B PFN2
LTA UMOD
NTRK1 SH2B1
ATM AP3B2
TNFRSF8 ALK
NAE1 NEDD8
CBX4 RNF2
PGK1 NRBF2
MCM3AP CLSTN1
CAV1 TRADD

RPS27AHERC3
PRKCA GRIA2
BRCA1 NCOA2
PRKCA GRIA1
KPNA6 LYAR
RPS27ADAZAP2
YWHAZ PANK1
MTNR1A HNRNPA0
PARP11RNF114
HSP90B1 CSNK2A1
PLAUR FAP
DFFA CASP3
S100B AHNAK
PSMA7 PSMD13
RPS27APOLD3
NUCB1 CASP8
IL6ST PTPN11
SRC PRKCA
RPS9 IKBKE
HDAC1 UBASH3B
NCL YWHAZ
SUV39H1 CABIN1
ANXA4 NFKB1
SOCS7 PIK3R1
DAND5 DNMT1
PQBP1 MED31
ELANE CAMP
HMGCR RPS27A
PRKCB ANXA2
SMARCE1 BRMS1
CP SLC40A1
EGFR SNX6
NDC80 CALCOCO1
EGFR SFN
UBE2L6 RNF4
BARD1 ZHX1
EGFR STIP1
CDK9 LARP7
ITGAL ESM1
FHL2 E2F2

BRCA1 TERF2
HSP90AA1 RALBP1
TSC22D1 PRPF19
CFTR PDZD3
XPO1 CDCA4
XRCC6 CLTC
ARPC1A EXOC7
HBEGF LTBP3
RALBP1 REPS1
YWHAG CRTIC1
XRCC6 HSF1
ARID1B SMARCC2
CDKN2A CCNG1
YWHAG CRTIC3
EGFR STUB1
GRB2 CD2AP
NR3C1 RAN
EGFR ATIC
HCFC1 WDR5
HNRNPC LMO3
APITD1 FANCL
ADAM10 LCK
CFTR KCNJ1
NGFR TRAF4
BNIP3L STEAP3
PLP2 DLGAP4
YWHAG EML3
SUV39H1 DNMT3A
S100B CAPZA1
TUBB4 RILPL2
SMAD1 RASL12
MNAT1 C7ORF64
COPS6 CRBN
F2 F11
YWHAB RACGAP1
ACTN4 COL17A1
HOXD4 ETV4
C1QBP PRKD1
RAMP2 VIPR1
CENPA HJURP

VAV1 PTK2B
AR TRIM68
MARK4PARD6A
OPRM1 OPRD1
MC4R ATRNL1
SETDB1 PPA1
ESR1 ISL1
DAPK1 CUL3
AP1G1 AP1S2
CSNK1E PRKD2
SLX4 EME1
GSN ACTA1
SMARCA4 NCOR2
RIPK2 XIAP
HLA-B NUDT5
LYL1 LMO1
AMBP PIK3R3
PTK2 GIT1
GRIN2D INADL
RAD23B ARX
CBL ASAP1
AP3S2 ARF6
PPP4R2 SRRM2
SREBF1HNF4A
HDAC3 CORO2A
SPTA1 FANCC
MCC STK24
PARK2 SIM2
UBE2L6 PARK2
GBAS PRKDC
MARK3PRKCQ
RORA LMO3
HDAC4 ESCO2
PDZD3 SLCO3A1
IDH3B RAB35
TGFB1 ACVR1
EGFR CRKL
ARID1A BCL7C
EGFR CRK
FYN CSK

RAD21 NUMA1
PRKRIR STK4
POLDI UPF1
ZIC2 GLI2
ZIC2 GLI3
CLU PDIA3
GADD45A CDKN1A
KCNH4 CENPJ
HSPA1B HSPBP1
NR5A2 SMARCD3
HDAC3 KAT2B
EP300 USF2
COMMD6 COMMD1
APLP1 STX5
STAT3 MTOR
COPA ARFGAP1
G6PC FOXO1
RTN3 RTN4
GLUL OTUD5
SOD2 ARF6
GSC FOXA2
BRCA1 BRAP
ANK2 DCTN4
RNPS1 SRRM2
TSHR RABAC1
NCOR1 TCF3
NOP56 TCOF1
MARS GIPC1
CBX4 MBD1
C19ORF50 EXOC7
HSP90AA1 NOD1
EIF3F ASCC3
CCL18 EEF1A1
CCT3 NFKB2
NKTR PACSIN1
APBB1 KHSRP
ANK2 TNIK
CALB2 TUBA4A
CAP2 PLCB1
NOS1 HSPA4

FAM135B KAT5
MLF1 NRBP1
CDC42 DAAM1
EVPL SPRR3
SKIL MORC4
RPL5 EIF5A
MED26 POLR2G
UBE2D1 TRIM25
MAP3K14 RUVBL2
DPEP1 KIAA1279
ETS1 UBE2I
HIST1H4I ASF1A
CHD9 NR1I3
CTR9 RTF1
SMAD9 SVEP1
SOCS3 MAP1S
YWHAZ PPFIBP1
CD101 SH3GL3
ADRBK1 PIK3CG
CASP4 IL1F7
ZFP36 DDX17
FOS SPI1
HDAC1 ARID4B
BAG6 STX5
OXSR1 RELL1
SOCS1 CRK
PQBP1 WBP11
UBE2R2 CBLC
HIST1H3J SETD7
RGS20 BOLA1
TNK2 SEZ6
VIM CDH5
MAP2K2 GPRIN1
H3F3B TRIM28
DAND5 OSBP
ERH IGSF21
NFKB1 CALM2
HNF4G HLF
POLR1C PHLDA3
CYP11A1 SMAD2

NR4A3 COPS5
UBE2D3 RNF25
STK3 GABARAPL1
KLHL22 COPS5
PIK3C2A ERBB2
RAP2A RUNDC3A
ELF3 GANAB
GTF2IRD1 MAP3K2
APBB1 KAT5
GTF3C5GTF3C3
SPTA1 SLC9A2
HIST2H2BE PARP3
ARL6IP1 ARL6
LYN CD79A
MAP3K14 RUVBL1
HIST1H1E CBX3
KRT14 APC
CBX3 EHMT2
OTUD4 TUBA1A
IPO7 RAN
PTK2 TSC1
SUMO1 MCTS1
SETDB1 PAFAH1B3
SNRNP70 CUL1
STAU2 KIAA1377
APPBP2MUL1
MRPL2 SMURF2
SPRY1 TESK1
PKD1 SIAH1
FADD TRADD
CTNNA1 MLLT4
SNX3 FYN
MSH6 RAD50
RPS23 MAP3K1
CHRNA2 CHRNB2
SYT7 AP2A1
CBS FXR2
HAX1 ABCB11
SNAP25STXBP6
PAX3 HDAC10

CALM2 SNTA1
STAMBPL1 RNF32
SIRT7 MAGED1
CDH2 LRRC7
AATK STK39
CDC42 NGEF
RNF13 UBE2E1
S100A8 NFKBIB
CFTR PRKG1
HLA-C MAPRE1
HSPA4 SUV420H2
SMAD5 SMURF1
BID FADD
TSEN15 EXOSC4
TFAP2A CITED2
KPNA6 GABARAPL2
PAX6 SOX2
MEPCE HNRNPUL1
ITPR1 BANK1
INS IGF1R
SMAD4 XPO5
DCP1B XRN1
TCP1 CCT2
MAP3K3 SUGT1
CDK8 MED28
MAPK14 CCDC14
CBLB CRY1
ABLIM1 KRT15
PIK3CARPS20
PER2 CRY1
ASH2L SETD1B
PRKCG ANXA7
KLRC4 RAE1
RAE1 SF3A1
MAX PLEKHF2
CUL1 TRAF6
CBFA2T3 PLXNA3
CRP HIST1H1A
RBL2 LIN52
VAMP3 PRKAB1

JAK2 TUB
PAK1 RHOU
CHFR GABBR1
SETDB1 MOBKL3
CASP3 TRAF3
YWHAZ CDK16
YWHAZ CDK17
FBL KLF6
MMS19 BRE
CTNNB1 CDH10
SPTLC1 RGS20
ARID1A SMARCB1
PSEN2 BCL2L1
NUPL2 GLE1
SMC5 SMC6
NFATC4 MAPK14
IGF1R RPS27A
RAB27A SYTL4
PITX3 NONO
ABCC8 RAPGEF4
RET MAPK3
EWSR1 RASSF1
C3 GC
DVL1 SMAD2
DLGAP2 SHANK2
DVL1 SMAD1
ADRA1A FLNC
CDC73 KIDINS220
ARRB2 RPF1
ANP32A NSFL1C
HLA-B BCAP31
SMURF1 PAK1IP1
NHP2L1 GTF3C1
CCND3 TSC2
IARS YWHAZ
GTF2I HDAC2
PRKCA TRIM29
UBE2D3 RNF166
NFKBIE PPP6R2
NFKBIE ANKRD17

PRKAR2B AKAP1
HDAC1 SMAD5
EP300 BTRC
RECQL5 POLR2I
FHL2 ZNF638
FOS RNASEH2A
HEATR3 GSTK1
AP1G1 BICD1
LPL UBE2Z
PPFIA2 GIT1
SSTR2 GNAI1
DTNBP1 OSBPL9
PPP2CASGOL2
RBPJ NCOR2
BMP4 GREM2
KCNJ10INADL
SFPQ RELB
UBC POLI
CD2BP2 PRPF8
COPS6 KLHL15
EFTUD2 RPAP1
WASL CTTN
MAP3K1 FKBP5
USP7 PICK1
PAX6 EN1
RICTOR RPTOR
UBE2W TRIM35
PTPRZ1CNTN1
NCAPH GSTK1
CDK4 RFC4
SF1 ZNF461
BCR CRK
BCR CRKL
HLA-B RPL38
LZTR1 POLR1B
ATXN1 BEND2
ARNTL HLF
HLA-B DYNLL1
APEX1 UBE2I
ASH2L PHF8

HSPA5 SH3BP4
RAE1 SF3A2
PSMA3 ATG5
MAPKAPK2 LIMK1
SRC PRKCZ
RAB8A MAP4K2
TFE3 NEDD8
PLCG1 CSMD2
NR1H2 NCOA3
DYNLL1 DNM3
KRT18 RPS6KA3
ABCA4 CNGB1
TOMM40 HLA-B
RPS27A TCEA2
KIT SPRED2
TNFAIP3 CASP8
CARD16 CARD8
MYO1CPOLR1B
RFX1 ADD1
ESR1 NCOA6
HDAC3 LCOR
CEP110 PCNT
ARNTL CRY1
BCKDK TRAF4
TCEA1 GTF2B
TFE3 NASP
CRK SHB
TIE1 PTPN11
ATN1 PCSK5
SNRPD2 KAT5
APLP1 NACA
HGS ILKAP
RPA3 CTNNBIP1
ATN1 NELL1
SMARCA2 SIN3A
POLRMT TFB2M
EWSR1 PRTFDC1
PCBD1 ACIN1
HSPD1 PPP2R1A
CASP3 PAK2

HSPD1 PPP2R1B
CBL RET
RPA3 FYCO1
IKBKB TRAF3IP2
CBFA2T2 RUNX1T1
KAT5 TRRAP
RAF1 BIRC3
GAPDHBTBD2
ACADM SUMO4
MED28 WWTR1
ABL1 OSBPL5
AR SIRT1
YWHAB MICALL1
SLC9A3R1 CLCN3
CDC42 TRIP10
IDH3B IDH3G
RELA TAF11
VHL RAB7A
PCBD1 MYT1L
VHL RAB5C
TNF PDIK1L
XPO1 DICER1
AFF1 SIAH1
RAF1 BIRC2
IFRD2 USP36
PSMD10 PSMD6
BRCA1 RELA
MAP3K3 MAP3K2
PSMC2 IKBKE
SNAP23VAMP3
CNTN2 KAT2B
SNAP23STXBP2
NCK1 KIFC2
DCD ILK
MCM7 MCM2
GRINL1A WDR89
SNAI1 HIST1H3J
EPT1 EWSR1
SAP18 RNPS1
CPSF1 TAF7

CPSF1 TAF11
DAND5 RARA
DAND5 AR
CPSF1 TAF13
NPPB HDAC4
CPSF1 TAF5
RPL23 RIPK3
SMAD2 ANAPC2
COPS6 COPS5
CBX5 INCENP
PDLIM7 UBQLN4
GMPS PRKAB1
CD1E B2M
TGM2 SMAD2
DPM2 PIGA
PARK2 HSPA4
IFIT3 IFIT2
SRSF11 SREBF2
IFIT3 IFIT1
AURKATLK1
GNAI3 AGTR2
NAA38 USP15
CASP3 STK3
FYN PTPRC
TSG101 ACAD8
PIK3CB PRKCE
TP53I3 UBR1
HSPA1B SUMO2
PF4 CCL5
PSMD7 ADRM1
GLI3 SUFU
RASA1 EPHB2
SNAP23ITSN1
DBN1 DNMBP
LIG4 PNKP
MAP3K3 LUC7L2
USP19 FKBP8
MSH6 ATR
PTPRG PXN
PRKCA EWSR1

ZNF225 CSNK2A1
CLIP1 PAFAH1B1
NFATC1 HDAC5
CNTN2 NRCAM
MMP3 SPOCK1
IL13 IL13RA1
PITPNAPMVK
USF1 GTF2IRD1
SMAD7 MYOD1
EIF1AY EIF5
RBL1 RBBP7
RASA1 EPHA2
PTPRC CSNK2A1
MEF2D STAB1
TCP1 IGBP1
MTA2 MBD3L1
NLGN3 NRXN3
RELA ASCC3
CD86 MARCH8
MED15 MED19
EVPL PSORS1C2
PCNA CDK2
EID2 HDAC2
CCHCR1 TRAF4
EIF1B RANBP1
RB1 MAPK1
SMAD2 LEF1
SCTR CALM2
BTK PIK3AP1
MAP3K10 PCGF3
PIP5K1A CAPS
MSN HLA-C
PTK2 TRIP6
GRB2 MAP4K3
LAPTM5 TOM1L2
AP4M1 ARF1P1
MAPK14 TCF20
TCP1 TNFRSF1B
CCNT1 GRN
TTC13 RAPGEF2

SH2D1A ARHGEF7
CCNT1 MEPCE
YWHAZ PARD3
TCP1 CCT3
CCDC130 ZBTB16
MGRN1UBE2J2
TACR1 GPRASP1
SAE1 ARX
CTBP2 CTBP1
ACVR2B INHBA
WASF1 BAD
HCFC1 ASF1B
KIAA1967 RUVBL2
GHSR GHRL
RXRA MPG
TXLNA STX4
DYNLL1 SHANK2
EMD SAP130
PFN1 ACTB
ACTN1 MYOT
CCDC85B AKIRIN2
YWHAZ CAND1
YWHAZ PACS2
HSPD1 CASP3
SORBS3 ADAM15
MAPK1 LIPE
GIPC1 DDIT3
CIAO1 DDX20
CTSA GLB1
SLC25A20 CRAMP1L
LRP1 APBA2
TONSL ASF1B
ABCA1 PDLIM4
RASA1 SHC1
G3BP1 NUFIP2
DEK SRSF2
MAP4K4 KIF5A
NAT1 NAA10
DPYSL4 SH3GL3
TP53 STK4

RAF1 PIN1
HDAC3 PROX1
E2F3 TFDP1
HMGB1MECP2
PCBD1 SEC62
E2F3 TFDP2
FLNA TJP1
UBQLN1 FAM127A
SPTBN2 CELSR3
ADAP2 IKBKG
MOBKL3 CCT7
ABL1 EFNA5
NOM1 PNKP
HDAC3 CREBBP
SYNJ1 CD2BP2
NANOS3 IMMT
TSSC1 QRICH2
E2F3 FHL2
NEDD8 USP25
PPFIA4 GIT1
YES1 DLG4
CDH1 CASP8
MALT1 TRAF6
MAFG CHD3
SUMO2 PLAUR
HSPA1B YWHAG
SPTAN1 TANC1
PLG CDCP1
APC LAMB3
USP7 ACD
ATG12 CDC37
CBX5 CBX1
ATG12 MRPL23
GIPC1 COPB2
MEP1A SRRM2
TAF1 MEF2C
PTPN2 STAT5B
HLA-C PCBP1
CSNK2B TOP2B
TARS NDRG1

TMBIM4 EIF3L
RARA PRKCA
RAC1 CCDC104
EXOC4 DTNBP1
DLST TUBB2C
HIST3H3 DYRK2
TP53 GPS1
YWHAB ISCU
VCL ACTA1
HTT CTBP1
TRAPPC2 ZBED1
MTHFS TSC22D4
PSMF1 HOOK2
HCFC1 THAP1
PRPF3 RNPS1
POLR1C PMS1
STOM TRIP6
MAP4K4 DOK1
SMAD2 DCAF6
MAGEA11 EWSR1
ANXA2 PRKCA
ADD2 RPH3A
CASP9 RPS27A
UBE2D2 RNF186
PRKCA CREM
RAB3GAP1 RAB3GAP2
THRA NR0B2
DSPP PKP3
NUP93 C20ORF24
CCNA2 CDKN1B
STAT6 NCOA1
FGFR1 IL17RD
EHHADH TSG101
NCAPH2 NCAPG2
C1QA HRG
MYC UBC
AKT1 MAP3K11
ATXN1L ATXN1
HNRNPH1 SRRM2
ARL4C UBQLN4

GATA1 FLI1
IL1B ADRB2
DAXX C3ORF63
HEXIM1 EGFR
SNAI1 QRICH2
PAFAH1B2 ACIN1
EGFR MAPK8IP1
IGBP1 PHLDA3
IL6ST STAT3
YWHAB KIF23
CDKN1B CCNA1
TMED10 TRAF6
EXOSC10 B9D1
PTEN PRDX1
RGS20 PMVK
MSH6 TOPBP1
RAB3B ACVR1
TOB1 CNOT1
CDKN1A HERC5
APOB HSP90AA1
MYOG NF1
SMAD1 FBXO30
AGTR1 GRK5
PRKACA LIPE
IFT20 C19ORF50
RPS9 LYAR
BMPR1A ZMYND11
HIST1H3J GATAD2A
EPB41 EIF1
MED14 CDK8
SCFD1 COG4
THRA RGN
CYTH3 GRASP
F2 ITGA2B
STAT3 STAT5A
WDR77 CXXC1
STAT3 STAT1
STAT3 STAT6
TRIM24RARA
KRT18 CDK1

EPS15 RNF11
FBXW11 NFKB2
EGFR SH2B3
MAPK8 HSF1
SCNN1A UBE2I
KAT5 TELO2
AKAP7 USP4
TRIM24AR
CD3EAP XPA
CD247 STAT5A
EGFR CBL
SPP1 ACP5
ESR2 MED20
PCNT TUBG1
MRPS12 CRMP1
ESR1 MVP
UBE2M CUL1
CTNNBIP1 PNMA2
SERPINA1 RAP2A
TCEB2 ASB4
YWHAQ ARHGEF2
AKT1 PKN2
ACTN1 CDK5
USP1 DSC1
CDK1 MYT1
CEP110 MPZ
EIF1B OAT
PRKCQ HABP4
PRL UBQLN4
TSC22D1 DDB1
HUS1 ATR
PES1 ARRB1
GRINL1A THAP1
LASS2 C20ORF24
EIF1B SOD2
GTF2F2 POLR2C
PPP5C DISC1
TPM3 EIF4A2
PHLPP1 RPS27A
GTF2F2 POLR2E

MAGEB2 ANAPC2
SMAD1 RHEBL1
AKT1 CDC37
NR0B1 SNW1
AKT1 MAPK14
HDAC1 HDAC7
SH3GL3 FAM173A
POLG POLG2
BTG2 CNOT8
HUS1 HDAC1
PSMD13 UCHL5
UBE2N RNF11
CSNK2B MEPCE
PSMD14 USP14
SH2D1B CD244
SH3BP5BTK
HDAC3 TMPO
SUMO2 TEX10
MAPK1 HDAC4
NAA38 KCTD3
GAPDH PSEN1
TNPO2 NUP98
NFKBIE REL
INS MLL
YWHAZ FOXO4
MEPCE ANP32E
YWHAZ SYN2
EREG EGFR
HIP1 IFT57
UBC UBQLN1
MYT1 PIN1
GAPDH MCL1
COPA BET1L
NAA38 LSM5
MED27 MED8
CCNDBP1 SIRT6
ACTG1 CAP1
KNG1 ITGB2
APOH GEM
CDK2 RBL2

SUMO1 PIAS4
GSK3A KRBA1
YWHAQ BAD
BRE UGGT2
FPR1 ACTG1
TRAF1 USP7
IL16 USHBP1
CASK KCNA4
TCOF1 GPN1
PTPN6 IL6ST
LOXL1 FBLN5
C14ORF135 FBP1
EPS15 MOBKL3
YWHAG SPTBN1
NAA38 LSM4
NKX2-1NCOA2
TBP TCF12
UBE2V2 MOBKL3
CUL4B DDA1
ZP2 ZPBP
DFFA YWHAQ
EGFR CAMK2A
RBX1 FBXO33
TRIP13 ARL11
C5 CPB2
GABARAP TBC1D2B
TAF6 HDAC1
CDKN2A MDM2
HNRNPUL1 LYAR
VTN GEM
SOS2 CD2AP
UBC ADRBK1
SGK1 NEK6
CD40 MAP3K8
SORBS2 ADAM15
NR4A1 VPRBP
PFDN1 ACTB
ORC5 ORC4
CCDC33 TRAF2
PTPRF BCAR1

CASP4 MDN1
MYT1 HDAC1
LAT2 UBQLN4
STAM2 UBE2D1
MAP1LC3C ATG3
CRTC3 WNK1
TBC1D4 C3ORF63
DDX5 GSK3B
TUBB TRADD
DDX58 IRF3
TXN TSSC1
PRPF3 SF3A2
CDC73 CPSF3
PSMD4 UBQLN4
CRK ERBB4
ABL1 DUSP15
SIX3 TLE3
BCL2 SERPINB8
UNC119 RGL2
RGS2 CALM2
WBP4 EFTUD2
SIX3 TLE1
HDAC1 RAD9A
IPO5 BAP1
SMAD4 NEK6
ADRB2 AKAP12
TUBB POLQ
EPB41 LRRC59
PRKRA TP53
UBE2E1 RNF152
NRIP1 PRMT1
FOXP1 SMAD4
MMP12 PLAUR
EEF1A1 TAF9
CASP9 BCL2L1
STOM ACCN2
LTA4H HLA-C
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HDAC1 PHB2
ATP5J2 ATG5

PRPF3 SRRM1
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NPHP1 PAK2
CLNS1A G3BP1
IKBKB MARK3
RELA TWIST1
HGS DAZAP2
GNAI2 F2R
MYD88 PELI2
PML BCL6
CDC37 EIF2AK1
YWHAZ CLTC
SLC38A1 LUC7L2
PLK4 CENPJ
UQCRC2 HLA-B
TAF13 TAF2
EIF2B1 STK11
DNAJA1 SUMO4
IRS4 PIK3CA
TNFRSF1B KCTD12
EEF1A1 MAPK14
IFNA8 IFNAR2
RNF8 UBE2N
NTRK1 PHLDA3
ZNF217 HDAC2
NAP1L1 IKBKE
YWHAZ TLK2
OTUD7B HIF1AN
NUBP1 NDN
F10 PRKAB1
HTRA2 BIRC7
HGS ARL6IP1
AP1G2 RABEP1
PRPF40A ZCCHC8
PTHLH PTH1R
ERBB2 ELF3
HLA-B PA2G4
DIS3L2 FEZ1
NR1H2 NCOR2
APP GTF2F2

DEPDC1B CAND1
TBP TBPL1
CHURC1 SERTAD1
NRP1 PLXNA1
HEATR2 PNKP
COPB2 TNIK
STK11 PARD3
UBE2U MIB2
MED14 GRB2
CASP4 SMC4
UBE2D2 RLIM
PRPF40A CYFIP2
THBS1 TFPI
GNAI2 EDNRA
HGS OSBPL5
SPG20 ITCH
TUBB NFKBIB
CUL4A PHIP
PRDX4 TTF2
PSMD4 CUL1
PSMF1 HOOK2
BMPR2 ACTR8
SSR1 EEF1A1
ARNTL HIF1A
TIPRL PPP4R2
TGFB1I1 GIT1
XIAP UBE2Q2
AP1G2 AP1S1
LZTR1 RUVBL1
TRAF2 RALBP1
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CCNA2 RPS27A
EED ITGAE
MEF2D RAB1B
ZNF496 ZSCAN30
CASP3 TRAF1
MVK EWSR1
HDAC1 PITX2
SNUPN KIAA1107
PLCG2 BLK

FKBP4 SH3BP4
NUP155 HLA-B
STK16 KCTD17
CCL18 CRMP1
TRAF2 MUM1
SLC38A1 MED31
PIK3R1 FLNC
GNB2 ATXN10
HDAC1 GF11
YWHAZ NOXA1
PBLD STRAP
YES1 PDCD6IP
PRPF6 SNRPB
LIN28B USP36
XRCC6 COIL
FADD MOBKL3
SLX4 PGAM5
LZTR1 TCF19
ABL1 UHMK1
PRSS23 MAPK8IP2
SYT2 STON2
YWHAE MAP3K2
CFL1 TAGLN
RPA1 TCEA2
NUAK1 LATS1
RUNX1 YAP1
GABARAP HDAC5
RELA NFKBIB
RELA TRIP4
EEF1A1 CSRP2
BUB1B MAP3K4
RAB2A CBFβ
TIAM1 MAPK8IP2
HOXA5 GTF2A1L
TSEN2 CLP1
APC SNW1
LAPTM5 HEY1
BCOR HDAC6
SNRNP200 SNRPB
TRAF2 ZMYND11

FBL NOP2
A2M ADAM19
UBC TRAF2
GBAS KEAP1
SURF2 WDR20
HLA-B SMC3
DDX24 NRXN2
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HNRNPU IKBKG
ABL1 RIN3
ARF6 SERBP1
STAT1 GTF2I
CASP3 STK4
CHD8 ASH2L
EGFR MATR3
FERMT2 FBLIM1
TGFB1 TGFBRAP1
SMC2 HLA-A
BUB3 USP11
ASAP2 PXN
F13A1 HSPB1
STAT1 IGBP1
ZFP36L1 MAPK14
EPRS YWHAZ
NFATC1 FOXP3
MED24 HNF4A
EGF ERBB2
HSPA4 OLR1
DAND5 SP4
DAND5 SP3
MMP13 MMP14
SUMO1 DAXX
CDR2 PKN1
SQSTM1 CASP8
KCTD12 ATG5
AKAP5 PPP3CA
KIF22 PJA1
ACCN2 ACCN1
RBM5 SF3A2
SERPINA3 CTRC

EGFR STAT5B
CLPB TTF2
TSG101 VPS28
STRN CCT8
STRN CCT4
RAD51L1 RAD51
SPG21 TRAF2
BCL2 CPT1A
OXT MLL
YES1 MST1R
SH3GL1 SH3GL3
DENR UBC
NPHS1 NPHS2
SDCCAG3 GIT1
PTPRC EPOR
CDON BOC
PIAS1 PGR
IRS1 ATP2A3
PRKCA GABRR2
PF4 VCAN
PRKCA GABRB3
REV3L PMS1
KCTD17 LNX1
APC ASB7
CREB1 ZNF436
DDX5 IPO11
HIST1H3J RCOR1
FLNB APC
RAD21 DISC1
UBC RING1
USP4 LSM7
WBP4 KHDRBS1
SFN GAN
GRWD1CDT1
GTF3C1EZH2
TRAF2 RHEB
ASXL2 TRAF6
GEMIN4 SNRPD2
RUNX1T1 NECAB2
MT2A SRC

VCP TRAF6
CST1 SOD2
YOD1 MUTED
SIM2 ARIH1
DHX15 TOPORS
REM1 YWHAQ
PRKCB COPS5
LEPR DGKZ
WASF1 ARHGEF2
GRINL1A SCMH1
RPA2 KIAA1377
CALCOCO2 PTBP2
MMP2 TIMP4
CBX4 KDM5B
GNB2L1 TP63
GRB2 RP1L1
PDE6G FNBP1
NPM1 CDKN2A
PIK3R1 PTK2B
YY1 HDAC2
RPN2 NDRG1
GBAS WARS
BAG2 TRAF6
PFN2 RNF146
MED13 MED23
CCND2 NPDC1
ACTR1A HDAC6
ITCH RNF11
ARHGAP1 RHOC
TP53 ANKRD2
SUPT3H DDB2
TRAF2 DLGAP5
CDH5 PARD3
DHX16 COIL
EZH2 WSB2
GRIN2D PPP2R1A
CHAF1A PCBD2
AKT1 METTL1
SYT5 SYT3
CDH1 CBLL1

AR AHR
ERBB2 ITK
GAPDH TNFRSF1B
HGF HGFAC
LEPR SNX1
PLD2 PLCG1
MBP MAPK1
PCNA WRN
ITGAV NOV
LAMC1 NID2
CRKL DOCK2
RXRA NR1H3
RALYL EWSR1
RASSF1 DAXX
GEMIN4 SNRPD1
NUP93 TMEM48
PTN GIPC2
CHD4 SMARCE1
YWHAE FAN1
ATXN1 FAM48A
PIAS2 ESR2
ATF7IP MRI1
IKBKB FOXO3
PSMC4 PAAF1
RAG1 RAG2
FYN PRKCE
NFKB1B POLR1B
HNRNPL SUMO4
MYH7 PSMD4
DDX58 UBE2K
INSR PTPRK
SOCS6 IRS4
DEFB1 INSL6
CDC37 ECSIT
ARL6IP1 INPP5K
MET PTPN11
DDX20 HDAC5
SMAD5 VPS24
DAND5 SMARCC1
LZTR1 ZBTB1

KPNA3 RCC1
UBE2U RNF25
PAK1 FRS2
YWHAZ PABPN1
TRAP1 TLR6
CD247 SHC1
SLC25A37 EWSR1
CD247 PTPN6
PVR AP1M2
AIRE PRKDC
TSG101 GGA1
PRNP ABT1
SEC11ATNFRSF14
LTA4H HLA-B
LCK SH3BP2
ACTG1 EPS8L2
UBE2M NAE1
UBE2V2 TRAF6
CCNK CEP76
CXCR2 RAB11FIP2
LUC7L2 CCDC53
TUSC2 SGOL2
CALM2 MAP3K1
ACTB EPB49
DAND5 GATA6
UBC ABCG2
AURKBSEPT1
HSP90AA1 DARS
RRP8 USP39
PTPN6 FLT3
LINGO1 RTN4R
MMP2 THBS2
HIST1H4I YWHAZ
MLLT4 SMAD2
MAP3K12 FRA10AC1
MAP1B ATG10
CD40 PIK3R1
FGFR2 STAT5A
EZR HLA-B
TERT XRCC5

ZDHHC2 MAFB
GNB2L1 DNM1
PSMD13 TRAF6
NCAN TNC
RAE1 COPS6
CSNK2A1 MEF2C
RPL13 TBK1
RPS9 DDX56
PCNA IKBKE
REM1 CACNB1
SP100 SUMO2
XRCC6 SMPD3
DDX58 UBE2D3
FANCA FANCC
SUMO1 NIN
MDFI ZNF707
COL1A1 PAK1
CSDE1 HNRNPD
FCHSD2 CHKA
APTX CALCOCO1
MX1 BLM
IRS1 RPS27A
TWIST1KAT2B
IRS1 GRB2
PHLPP2WDR48
YEATS4 ING3
EXOC8 USHBP1
MAPT CALM2
EIF4E2 USP4
HERPUD1 TOLLIP
TCEANC TRAF2
GRB2 LAX1
TCEA1 CTDP1
ARID1A SMARCA4
ARIH2 DLST
PAK1 ATG5
ARID1A SMARCA2
PSEN1 VASN
ARNTL AHR
APPBP2CHMP5

PLAT SERPINA5
ERP29 IKBKE
PLAT SERPING1
DEDD GTF3C3
IFNG IFNGR2
JAK1 CCR1
A2M RNF32
IGF1R DOK5
CSNK2A2 WDR48
SNCA EPB49
MYH9 MYL9
MEPCE DDX23
SEC23ANDRG1
TNFRSF8 TNFSF8
DNMT1 DPEP2
EEF1A1 RNF10
HLA-B RPA3
DNMT1 DNMT3B
RNF10 CCDC90B
UBE2E1 DTX3
SUMO1 HIF1A
TFPI PRSS3
FGG ITGAM
LEPR PIN1
CUL4A DDB1
ATRX RAD51
IFNA5 IFNAR2
PRKACA GAD2
TNF NT5DC3
HRAS RIN1
TAF1 TAF6
AGRN ATN1
GABBR2 LASS2
ERCC1 XPA
RNPS1 PNN
DEC1 SETDB1
APBB1 RBM17
CD99 SDCCAG3
TNNI3 ACTA1
PIK3R1 BCAR1

TAF1 TAF11
TAF1 TAF13
TAF1 TAF7
PRKCI MAP1LC3B
ATF7IP CEP250
FBL MAP3K14
TAF1 TAF5
S100B S100A11
GPR17 GNA13
KIAA1409 SAE1
LMO1 TAL2
RAB25 ACVR1
ABL1 C6
CYP2C9 POR
YY1 CREBBP
SMARCC1 ING1
MTNR1A GNAI1
TEK PTPN12
TTYH2 IKBKG
CD22 GRB2
TPM3 IKBKE
TBL1X NCOR2
RAB3GAP1 MAP1LC3A
APP HADHB
PLAT SERPINE1
FBLN1 MOBKL3
RPS27A POLQ
CST6 CTSL1
A2M LONP1
TRIM28 SIN3A
CANX BCAP31
CSDE1 HLA-B
USH1G USH1C
ARPC2 SF3B2
EWSR1 BNIP3L
PPIB STAT5A
AP2A1 SHC1
ASGR1 HSP90B1
ME2 DYNLL1
F2RL2 PLCG1

ACTA1 CYTH1
MMP1 ACAN
MFNG JAG1
STAT5A PRTFDC1
SLC38A1 TSC22D4
HEATR3 TRAF6
ZBTB16QTRT1
TDP2 FLI1
HSPA2 HSPBP1
BRAF RAP1A
LYN CSF2RA
JAK2 RAF1
ZYG ZNF384
HNRNPL CSE1L
TRIM28ZNF382
TCF4 TCF3
GNB2L1 SREK1
MTA2 GATAD2B
TRIM24ESR1
ACTA1 AFAP1
PABPC1 CNOT7
MCC PTGES3
PSMB3 POMP
MTNR1A RAC1
LSM1 LSM3
NAP1L1 TANK
CDKN1A MAPK8
FZD9 MDFI
LSM1 LSM6
NAPA VAMP2
SUMO2 SETDB1
MSX1 PAX9
KIAA1267 TRAF3IP1
PPL VIM
C1QA C1S
CFLAR RPS27A
ACTA1 DHX9
MTOR RICTOR
PRMT5 MEF2D
ICAM1 IL2RG

MAPK14 STK39
EXOSC10 UPF2
ABL1 CHR1
CCR5 STAT5B
TBP YWHAE
ALB YWHAG
APOA1 MAP7D1
C1QBP FBXO33
MRPL32 TNIK
SH3BGRL EGFR
NTRK1 TRAF6
TTI1 ATM
TUBB2A LAMA4
NUPR1 EP300
SREBF2OSTF1
LAMB1 ACHE
FDPS EIF4ENIF1
HIST3H3 EHMT2
RDBP WDR48
SREBF2ARHGEF1
TNF ADAM17
PCBP1 RBM42
EIF4G2 GSTK1
HSPA1B PTGES3
PRSS23 EFNA3
TNFAIP3 MCM6
ADRBK1 CCR5
UBQLN4 RAI2
DOCK1 CEBPE
KIAA0090 CENPH
YWHAE FAM65B
BAG2 NFKB1B
INADL ACCN3
TJP1 PTPN14
SACS ZNRD1
INA TANC1
TRAF2 TRADD
EGFR PRKAR1B
ADRBK1 CCR4
SUPT5H C9ORF78

ETFA MPG
MPHOSPH9 WNK1
ZIC2 PRKDC
EIF4B CASP3
RECQL5 CUX1
FIBP RNF32
YWHAB DOCK4
YWHAB TESK2
TOB1 RAVER1
WWC3 PHLDA3
TPD52L2 MAL2
CRY1 TIMELESS
SNCA SEPT2
GNAS RUVBL1
XRCC6 TERF2IP
KCNA10 POMP
ESR1 RLIM
RRAGBRRAGC
MAP1LC3C RASSF1
UBE2K DTX3
ELF1 REL
HIST1H3J TP53BP1
ESR1 RBM39
USP4 DCP1B
ADCY3 STOML3
CEBPD SMAD3
CNKSR1 RASSF1
GSR RB1
ORC5 DBF4
RPS27AATF5
CAPN3 TTN
PGRMC1 MPG
GRB2 SMARCD3
RAB4A SRA1
IL4R PRKCZ
TMED10 TMED2
COLEC11 GOLM1
RPS27ADLGAP5
EWSR1 MTMR9
CHAD COL2A1

GPRASP1 TFG
SF3A2 WBP11
KCNN4 PHPT1
ARNT PML
UBE2E1 ARRDC1
TEX11 C10ORF82
SRSF3 EXOSC6
NCOR1 ZMYND11
PRICKLE3 GRB2
POMC MC4R
ARF3 KIF23
RCOR1 NR2E1
GNAI2 CXCR2
GNAI2 CXCR1
FBL BAK1
IMMT DISC1
GTF2B TAF9
PTK2 PTPRH
MATR3 GF11B
SF3A2 ELAVL1
GATA2 LMO2
NDC80 ZW10
SAP30 PCBD1
CUL2 CMBL
HIST1H3J CHD3
EPB41 PCNA
UBOX5 UBE2D3
MAP3K14 TRAF6
CDH3 CD2AP
IGF1 IGFBP2
MAP3K11 KIFAP3
SUMO3 ARX
POLD2 LSM6
A2M MYOC
LYN PRAM1
SPINT2 ITIH2
ZBTB7A HDAC1
UBOX5 UBE2K
FLNC MYOT
BTG3 CNOT7

MED22 MED11
PTH1R YWHAH
NR2F6 NCOA1
ADAM12 IGFBP3
LIMS1 EHMT2
SGTA C1QTNF1
RPS27ADLGAP4
WWC1 DLC1
UBE2E1 RNF10
STIP1 CDC37
CDK2 PPP2CA
CCNE1 CALM2
MAP3K7 MAP3K5
MARS TRAF6
PRKCZ PARD3
PTP4A3 PRPSAP1
NCL NSUN2
KIF5C YWHAG
C10ORF62 KRTAP4-12
FASLG GRB2
SSB IKBKE
STX7 STX8
LXN THRAP3
RXRA PML
CEACAM5 EWSR1
MCM7 CDKN1C
PRKCG EIF4E
GNPDA1 EWSR1
NR0B2 NR1I3
JAK2 PDGFRB
MYD88 IRAK3
EEF1D KTN1
IFIT3 IFIT1
SMAD2 RNF123
CALCOCO2 POLI
ATL1 RTN4
TFDP2 E2F4
PHB BRE
MCM7 NEK6
UBE2W RNF2

UBQLN4 FKBP7
ZBTB16TXNIP
FER DNMT3
WDR62 TBP
TSEN2 TSEN34
GUCA1A GUCY2D
RPS6KA3 CSNK2B
RARA GATA2
HIST1H3J BPTF
IDH3B PHLDA3
APC OS9
CEP63 MBIP
VRK1 PLK3
LAPTM5 EPN1
BLM EXO1
NCK2 FGFR1
MC2R MRAP
EWSR1 RBPMS
DNM1 PACSIN1
PPIL4 SMAD5
MED26 MED9
HGS GF11B
WDR5 SNRNP40
GLRX3 IKBKE
RPL7 SGOL1
EGFR HSP90B1
RPS3 RPS27A
CD46 MSN
MAP3K10 BEND5
RXRB EIF3A
BAG4 BCL2
C20ORF24 ATXN10
SCNN1A STX1A
GNB5 MCM2
PRKCD EHD2
SNRPB2 DHX9
GRB2 ASXL1
S100A8 LRRK1
UBC ITCH
NCOR1 SF3B3

S100A6 ANXA11
KIN RPA1
ORC5 CDC5L
KRAS CALM2
UBE2I BLMH
PLEKHA5 PLDN
GH1 SET
MICAL1 RAB1B
COL5A2 COL11A1
HNRNPL PJA1
TERF2 ORC3
MAX GOLGA2
ZBTB16CCDC85B
RPS27AFAN1
PTEN COPS6
RPS27AERBB4
SPRR2A EVPL
ITGA5 COL18A1
HDAC1 MNT
POLE2 EEF1A1
HBP1 RB1
PPP2R3A CDC6
FASLG RPS27A
MAPK1 PRKCD
PRNP SRRM2
RNF125 UBE2E2
MLLT4 F11R
PTK2 CDH10
CD34 CRKL
RHOG MAP3K11
PTK2 NEDD8
DYNLL1 NEK6
FBXO22 COPS5
MST1R STUB1
ZBTB16FAM101B
MYD88 LRRFIP2
RAF1 MAP3K1
ARL6IP5 MEF2A
PFN1 VIPR1
ABCA1 PRKACA

EIF3H CSNK2A2
GCC2 ZRANB1
LIMK2 CDC42BPA
SMURF1 NDFIP2
PINX1 GTPBP4
RHO PRKCA
LZTR1 MED16
APOA1 CD40LG
TIMM10 TIMM9
TBC1D4 DNPEP
SLC22A6 APPBP2
MCC MOBKL3
SAP18 NSF
EIF3F MCC
F8 HSPA5
ACTA1 MYLK
SOCS1 TCEB1
PIK3R1 MAP4K1
TSHR LHCGR
YY1 HDAC1
XRCC6 FCHSD1
TBC1D4 ZMIZ1
PGR HMGB1
PSMA3 XRN2
HSP90AA1 RIPK3
GIGYF2U2AF1L4
ZBTB7A TP53
MCC REXO2
PABPC1 ETF1
FGB FBLN1
ARF6 CCDC47
SKI SIN3A
HRAS RAPGEF1
MLLT6 CEBPE
MCC SEPT2
INPPL1 SRC
CTSB SPHK1
TAF9 TRRAP
MAPK3 STAT5A
YY1 KAT2B

LYN ACTB
LAG3 CENPJ
COPB1 ADAM19
NUP85 USP36
EFNA4 EPHA5
CDH1 NEDD9
MCC MRPS16
HOXB6 ALX4
SOX9 CREBBP
MALT1 IKBKG
XPO1 PKIA
LMNB1 PRPH
ATXN3 EWSR1
GRIN2D HRAS
NCALDTUBA4A
MCC PSMD6
EFNA4 EPHA4
HSPA9 IKBKE
TGM2 PLCD1
IGF2 IGFBP5
LSP1 MAPKAPK2
IGF2 IGFBP6
PRKCA DGKD
KDM6APAXIP1
MCC TALDO1
YWHAZ PHLDB2
MAP2 CPEB1
HMGA2CSNK2A1
PRKCB STXBP1
SUV39H1 MECOM
PQBP1 RCVRN
FCER1G BTK
VIM SMAD3
EPCAMCD83
ZBTB16CIDEA
PTPRC PXN
MUC1 APC
RALYL TSNAX
MYO1CPOLR1E
WDR36 USP36

EFNA3 EPHA7
HIST1H2AL YWHAZ
HSP90AA1 TRADD
FYN VPS13A
XRCC6 CHD1L
PPL EVPL
E2F4 MGA
ATAT1 SETDB1
KCNAB1 SLC39A1
TGFB1 BMPR2
SYNCRIP CNBP
INADL GLS2
UNC119 CBX8
CYFIP2 ABI3
CSNK2A2 RNPS1
TMCC2 PRKCZ
TNFRSF1B COPB1
CCT4 YWHAZ
ZNF205 MDFI
HBXIP GIT1
STK4 HIST2H2BE
SUMO3 SAE1
MCC TAGLN2
CCT3 CTTNBP2
PSMC4 PSMD13
LCK PRKCA
SLIT2 ROBO1
RAMP1 CALCA
NFATC2 MED31
SLC24A1 ABL1
MCC EIF4H
MYC ESR1
SEPHS1 IGSF21
TIPRL PPP4C
SMAD1 ECSIT
ATP5D ATG5
MAP3K7 MAP3K3
SMC2 HLA-B
ARL2 PPP2CA
PCBP1 HNRPLL

SOCS1 TCEB2
ACTL6B CTBP1
ID3 E2F4
PSEN1 PKP4
SMAD2 GTF2IRD1
MBP STK4
PLEKHA7 KIFC3
TP53BP2 YAP1
SMARCB1 ARID2
FCGR3B APCS
STMN1 UHMK1
KIF11 MYSM1
TP73 INPP5E
IER3 PPP2R5C
AURKAKIF2C
FHL1 PRKAB1
ADRA1D ADRA1A
SNRPB MEPCE
TFG TSSK2
ETV6 KAT5
SERPINA3 F5
PAK1 BAIAP2
AKT1 PRKCQ
YWHAE AKAP13
HGF SDC1
RPN1 USP49
HLA-C GMPS
PIK3R1 DLX4
ALDOC ATP6V1E1
YWHAE KCNH2
LCK PTPRH
FST DIP2A
STK25 STRN4
MAP3K3 TRAF6
XRCC6 NIT1
DDB1 DCAF12
DLG1 CAMK2A
STAT6 NCOA2
IQGAP1NFKBIB
ITCH TRPC4

GORASP1 HIPK3
TRIM37DLGAP5
GF11 PIAS3
TEX10 USP42
SUMO1 WDR69
RPS29 EXT2
PAK7 PDLIM7
DDX5 SRRM1
PTPRA BCAR1
MSLN MUC16
ABCF1 PINX1
SYT1 IKBKG
DLL1 NOTCH3
ATP5C1PJA1
TP53 GPS2
HSP90AA1 NFKBIB
YWHAZ GIGYF2
TMCC2 PTOV1
SERPINA3 APP
FLNA CAV1
PSMC2 PAAF1
HSPA5 GRIA1
HRAS RASGRF1
NCAM1GFRA1
YWHAE CBY1
SUMO2 PAFAH1B3
LRPPRC MAP1S
BCR SRC
SUPT5H PHYHIP
AKT2 CASP3
MED24 PARP1
MYST3 RERE
GTF2F1 FEZ1
BAX BCL2A1
SPTA1 EVL
PARP1 NCL
CEP63 DISC1
STXBP1 SYTL4
HIST3H3 KAT2B
CXORF56 NFKBIL1

ABCB1 DHX9
DIAPH1CENPA
SRGAP1 ROBO1
FADD RIPK3
FGF10 FGFR2
MED27 MED30
APP LAMA1
TSC22D1 NDUFA9
MED22 MED1
C1ORF94 MAPK11P1L
HOXB6 CREBBP
EPS15 ITSN1
AHR NCOA7
ZZZ3 LZTR1
FUS OTUB1
ARPC4 ACTR3
ROCK1 ARHGAP24
YWHAG TUBA1A
PRKCA FLNC
SDCBP SDC1
YWHAQ ESR2
ESR1 ARNT
BNIP3L DOK5
HIST1H3J MBD1
KDM6ARBBP5
NR4A1 NCOA3
MID1 MID1IP1
GIPC1 DRD3
HSPA1L RELA
SUPT3H MYC
RNF8 H2AFX
PIK3CDRALY
BRCA1 VCP
EIF1B TPM3
SREBF2COPS5
USP49 SLC39A7
ARPC4 ACTR2
UBE2D2 RNF165
MAP3K7 ENO1
SDCBP GRIK1

MAP2 PAFAH1B1
PRKAR1A PAM
PRKAR1A CDH2
STK4 RASSF3
BLK UBE3A
UNC13B SNAP25
CDKN2A ANKRD12
MARS PRKAB1
RPS6KB1 CDC42
HMGCS1 IKBKE
MBP ATXN1
MBP ATN1
RARA HMGA1
EIF1B CALR
RPS6KB1 ACTA1
MYH9 TUFM
FOXG1 HDAC1
PLXNB1 SEMA4A
RB1 AHR
MAP1B GAN
KRTAP4-12 SPG7
GSTM3 HLA-C
YWHAB SRPK1
LETM1 RAPGEF2
NEFL CDK5RAP2
EIF2AK2 METAP2
TCERG1 SETDB1
SKI SKIL
ATP5F1 DSTYK
ZNF365 NDE1
SF3A2 SF1
FGF6 FGFR3
MAP3K11 MAP4K1
KDM1AWHSC1
BAG2 MLF2
PRKAR1A PRKX
IL2RB STAT5B
EPB41L2 NR3C1
HSP90AA1 IKBKG
SLC12A1 STK39

ZBTB6 NCOR2
CRX IPO13
SMAD1 SNIP1
UBE2E1 RNF220
GNAZ EYA1
HLA-C HSPA5
NCOR1 SAFB
CD36 HSD11B1
FHL3 PHC2
GAPDHPAFAH1B3
GPRASP1 PBK
TICAM1 RIPK3
TERF1 ORC2
KIT SRC
PRPF40A SF3B2
PAFAH1B3 SUMO4
MAPRE1 HDAC6
RAB1A INPP5F
MAX PPP1CA
LRRN1 MDFI
EFEMP2 NANOS3
EIF3E COPS6
CREBBP CALCOCO1
SEMA4A PLXND1
CUL5 RNF7
PIK3C2B GRB2
ATRX FAM190B
RASA1 DLC1
PRKAR2B RYR2
GH1 DDX21
RCHY1 UBE2D4
EPOR RPS27A
PRKAR1A RFC2
ABL2 ABI1
BMP2 CHRDL2
HLA-B COPS3
RRAS PIK3R1
MED20 PPARGC1A
CYP27B1 TCF3
PSAP GHR

AKT1 MST1R
NCOR1 NR6A1
PELO FANCI
MAX PPP1CB
AP2A2 HTT
DNAJB8 HDAC6
NCOA1 KANK2
MTNR1A GPR50
EEF1A1UBQLN4
ZRANB2 SNRNP70
EPOR GRB2
GRM1 ITPR1
TOP2A SETMAR
RPS27ARNF11
EPS15 NUMB
SGK1 MAPT
HLA-B DUSP3
NCOR1 SF3A1
SFN OSBPL3
ESR1 MAPK3
SMAD9 RNF123
ACVR2A ACVR1B
ULK2 RB1CC1
PTPN2 SHC1
EIF3H DISC1
MCC ATP6V1E1
YY1 ACTR8
MBP RXRB
RPS27AFIS1
RHPN2 TNFRSF10D
PAK1 RHOJ
RANBP9 DDX4
PRKCG GABRA1
KCNJ4 LIN7B
ESR1 YWHAQ
ZNF202 PCBD1
YWHAB EPB41L1
MAPK3 GAB2
UTP14A CCDC106
BBS7 EXOC7

ERBB2 SH3BP2
MED12 LYST
WBP4 NONO
ASB6 RNF7
DFFA STRN4
MED29 MED19
PTPRB F11R
LAPTM5 RNF168
SHC1 KIAA1737
TSPAN15 BTRC
NR4A1 PSMC5
C20ORF94 SYNE2
EP300 E2F5
AKT1 EZH2
EEF1A1LAMA4
CYLD MYO6
WAS GRB2
HLA-B GDI1
PRKCA SPAG1
CUL1 FBXO7
ACTG1 MEPCE
P4HB PAK2
HNF4A MECR
NR4A1 VASP
MECP2 GTF2B
ITSN2 KIAA1549
TH CAMK2G
COPS6 ZYG11B
MYC CDKN2A
RGS10 GNAO1
ITGB5 ITGB3BP
STRN CAV1
PRDX1 IRF3
RET GDNF
ZBTB17ESR2
HEXDC FBXL15
MED25 MED4
DDX21 TRAF6
GNRH2 GNRHR2
OTUD4 PARP11

SMAD7 SMAD2
MAPRE1 COPS7A
NUP107KPNB1
POLR1C NFKBIB
SLC25A6 FGFR3
PRMT5 HSP90AA1
THRA RXRA
DAB2 DIP2A
GRB2 TCEAL8
PRMT3 PABPN1
RBMX LNX1
CD40 CALR
YY1 SMAD4
USF1 TCFL5
GLP1R RPS27A
UBE2E2 HERC5
VDAC1 SUMO4
MAP1B MAP1LC3A
NR3C1 SFPQ
ERBB2 DLG4
MAP3K7 MAP3K14
AMPH CDK5R1
MMP2 TIMP3
SUMO2 MDN1
ATN1 MYST3
PIK3R1 DAG1
AKT1 MAPKAP1
CCNB2 TSPYL2
EPHA8 EFNA5
DYNLL1 MYO10
RAF1 MAPK1
ARAF YWHAE
LZTR1 ZNF175
LAMC1 NID1
GAS7 ABI1
STON2 EPS15L1
ITSN1 MRPL20
FAM101B KAT5
RAF1 GRB10
HIST1H3J BAZ1B

KCTD17 TUBGCP4
S100A1 CAPZA1
IKBKB CTNNB1
UBE2NL MEPCE
RNASEH2A C19ORF68
CDK5 CDK5RAP1
MAPK1 MAPKAPK5
HOOK2 UTP14A
EGFR BLK
EGFR DUSP3
MCM7 BRF2
CDH1 NDRG1
TYK2 IFNAR2
NCK1 DROSHA
RNPS1 SRRT
CCS SOD1
CENPA HIST1H4I
CHAF1A WRN
CALR PDIA3
PLEKHA5 MID2
PRMT1 FTSJ1
PPARA MED1
IGFBP3 KPNB1
GTF2F2 CTDP1
MAPK1 KSR1
GAP43 PRKCD
MAGEB2 SRP14
CBX3 WHSC1L1
FOS EEF1D
MED15 MED28
CRYBA1 CRYBB1
EIF3F EIF4B
CTBP2 MECOM
HSP90AA1 BRMS1
PSEN2 FHL2
SUV39H1 HDAC1
MPDZ HTR2B
LSM6 SNRPD2
SFTPD DMBT1
TICAM1 TRAF6

PFKM SUMO1
GSPT1 GSPT2
ATP5B SMURF2
ATG2A MAP1LC3B
APC CTBP1
CAPN1 CAST
PPFIA4 NCOA2
MAGEB2 RPL36AL
UBE2A RPS27A
SIP1 GEMIN6
MYC LRPPRC
UBE2K NEDD8
GHR PTPRH
GIGYF2WBP11
TNFRSF1B DNAJA3
NRBP1 TSC22D4
PAK4 LRRK1
PTPN3 ADAM17
URGCP CHMP5
CASP4 XIAP
SMAD2 NAGK
HHEX EFEMP2
HDAC1 PFDN5
DPY30 CHMP2B
MAPK1 PRKCZ
SOD2 MPG
TCAP TRIM63
CSNK2A1 RNF7
DAB2 LRP1
SFN SAV1
GNB5 RGS7
NFATC2 MUM1
TRAF2 TCEA2
TRO BYSL
ESYT1 IKBKG
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USF1 HDAC9
ZNF259 EGFR
CCNE1 SMARCC1

AHSG GRB2
PFKM DYNLL1
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NR4A1 NCOR2
LCK UBC
TP53 STX5
KLHL20 KIAA1377
FABP4 ACP1
NFKBIA REL
ATP1A1 APC
PRKCA OCLN
HIST1H3J CTCFL
PDHX PDHB
MSN HLA-B
GZMB LMNB1
AURKATPX2
STOML1 ACCN3
ZNF238 DNMT3A
GRB2 RPUSD2
EIF2B1 MRPL4
BAG3 FAM189A2
EEF1A1 SUV420H2
THRB PSMC5
ATRX DAXX
KCNJ12DLG3
FASLG SNX33
DLG2 CRIPT
HIST1H3D CENPA
YWHAE RIPK3
GTF2A1 KDM5B
SUPT3H TADA3
RGS5 GNAI2
UCLH1 TNIK
UCLH3 COPS6
GABPA EP300
SUPT3H TAF5L
POLR3A RAE1
IMMT UBQLN4
YY1 ACTR5
TAF6 TAF8

CA2 PCNA
CDKN1A MKRN1
C4ORF14 ABCB8
ZW10 KNTC1
CD79A CPA1
COL4A2 FBLN2
RPS27ALGALS12
DDX3X NFKB2
BMPR1A SF3B4
NPEPPSDMWD
MED28 MED19
NR3C1 SFN
NSF PTPN12
KIF1B DLG4
SKP1 NFKB2
GEMIN4 NFKB2
PNKP LAS1L
PRKCA FSCN1
ATM TOPBP1
IKBKB MAP3K7
NANOS3 CDC37
TGFB1 SYNE1
FAM107A DCD
PRKACA RSBN1
RPS27ASALL2
RPA2 RPA3
CUL5 COPS7A
HCFC1 HCFC1R1
PPP2R2A ATR
GADD45B PPARG
HNRNPK DDX1
FOS ATF7
ARRB2 RAB5C
XPO1 SMARCB1
TP53 AIMP2
RAB5A RASA1
SSTR3 SST
C3 ITGAX
EWSR1 USP7
APOA1 CLEC4G

PSMC4 PSMC5
NSUN2 AURKB
NR2F2 NCOR2
TIAM1 CAMK2G
MAPK1 DUSP16
HMMR CD44
PPP2R2A EIF4EBP1
FKBP3 HDAC2
HLA-B TRIM28
C4ORF14 ABCF3
SSB RXRB
CAPNS1 TERF1
PTPN6 CD79B
PRKCA GNA12
NOTCH2 RBPJ
CANX SVIP
FOS JUND
PDE6G ADRBK1
SMARCA4 MYEF2
COIL PRMT1
EIF3A BBS4
YWHAE POLR3H
PFKL NFKB2
CENPF CENPE
GNA11 PTGIR
GNB5 RGS6
MTF2 EZH2
CTNND1 CDH5
DDX17 NCOA3
OTUD4 GPHN
COG4 PLCB1
POLR3A RPAP1
DDR1 SNRNP40
CRKL INPP5D
MEN1 SMAD5
NEDD8 FBXO4
PDPK1 PTPRK
ORC5 ORC3
CIAO1 EIF4G2
CALML3 USP15

TERT RELA
MAPK1 ALK
HIST3H3 CREBBP
EP300 NEIL2
MAPK1 HSF4
SPTB EPB49
KPNA3 COIL
HSP90AA1 TAB1
ACTA1 TRIP6
HLA-B KLRD1
PIAS2 TOPBP1
MTA2 ZFPM2
BACE1 KHSRP
PFDN1 VOPPI
GTF2B HSF1
RORA PNRC1
EZR MSN
MPG CAPZA1
STAT6 ZNF92
GIGYF2GEMIN4
ACAP1 VAMP3
LZTR1 EHMT1
FBXW5 NLK
TLE2 HES1
SIN3B MXI1
NKAP CEP70
VHL RPS9
KCNQ5 DISC1
GSC SMAD1
GSC SMAD2
CBX3 PCGF6
MCC DRG1
UBE4B ATXN3
PRMT3 HNRNPK
BAX BAK1
YWHAB OSBPL3
FST BMP5
AR CALM2
ABI1 CBLC
HDAC3 GTF2I

SPTBN1 SPTAN1
NPPB EWSR1
TAF4 TBP
CCDC85B FAM164C
LRP2 TLN1
PTAFR TYK2
RIPK2 EZR
HSP90AA1 TOMM34
DDX21 PRKAB1
CYLD SPATA2
KIAA1217 GCC1
IL1A IL1R2
ATP1B1BACE1
LZTR1 ZNF451
PRKD3 KPNB1
RPS27ASMAD4
MYC NCAPD3
DRD1 COPG2
TP53 BRCA1
CFLAR ITCH
PLCG1 RHOA
CD2BP2 RBM12
FAM127B UBQLN1
RASA1 MAGI1
GSTZ1 ABL1
PTPRM PPFIBP1
SYNJ2 PIK3R1
IGF1R MAP3K5
BRAF MAP3K1
FYB SH2D1A
VAMP7 STX4
NCK1 ID4
NR4A1 CD2AP
LRPAP1 RTN4
YWHAE TRAF2
PRMT5 OLA1
P4HB HM13
CBL SORBS1
BCORL1 HDAC7
NCS1 IL1RAPL1

SMARCA4 CHD7
FGFR1 FGF8
TRIO RAC1
MED26 MED29
YWHAB FAM82A2
WBP4 SNRNP70
RPL23 IKBKG
TBP CXXC1
MLLT4 RAP1A
TRPC1 RHOA
ECHS1 UBA5
APTX SYT17
SHC1 ZAP70
TBP GTF2F1
SHC1 SYK
SIRT1 HEY2
ZBTB17CREBBP
EPHA8 EFNA4
HCFC1 GABPA
HCFC1 GABPB2
NPHP1 ADAM15
YWHAE LRMP
ABI1 EPS8L3
ABI1 EPS8L1
STX3 TRPC3
CSNK2B MCRS1
AKT1 CCDC88A
AKAP13 MAP3K5
TEX11 STMN2
EDF1 PRKCA
RPGR SMC3
ZBTB7A DAND5
FEZ1 RAI14
PIK3R1 INPP5D
NDUFA2 LGALS3BP
CALM2 STRN3
DLL1 MAGI2
PSMD13 IKBKG
MED18 MED4
ITGB2 ESM1

JAK3 CXC4
EIF1B APEX1
CCNC MED1
RTCD1 RPL35A
COL9A2 FEZ1
CAPNS1 MEPCE
CBL SPRED2
TFCP2 LIMCH1
TUBB4 NFKB2
MAP4K4 GATAD2B
UBE2U RNF166
UCL1 USP21
DNM1 DNMBP
BMP1B SNX6
ZSCAN1 ZKSCAN5
RPN1 STT3B
BDKRB2 GRK5
HOXB1 CREBBP
GH1 DSTN
CTPS2 SPG21
TSG101 TRIM35
CTNNB1 SOX6
CDK4 RBL1
SPRY2 CBLC
BPGM GRB2
FBXO21 CNTNAP4
SOX5 SOX6
GDI1 RAB9A
TNFAIP3 LRRC47
AP4E1 AP4B1
ENO1 SUMO2
SEMA4F DLG4
CAV1 BST1
RXRA NCOA6
EXOSC8 DIS3
RPS14 LYAR
GJB1 SRC
UBE4B CASP3
PHB GTF2F1
AGRP MC4R

CXCR4 GNAI1
PTPRF GALNT1
TNFRSF10A ARAP1
ZNF655 KRTAP4-12
ANXA2 IKBKE
USP21 RBM8A
LCT HSPA5
UCHL1 VCAN
COPA IKBKG
EWSR1 IRF3
PIK3R2 SYK
ZNF225 NAB1
ACVR1 FANCL
CHAF1A DMAP1
COL2A1 SPARC
BMP2 ASCL1
BMPR1B STUB1
QPRT KRTAP4-12
CDH2 PTPRR
TP53 CR2
PTP4A3 ARFGEF1
SULT1E1 INSL6
CYCS SPNS1
ERBB2IP DST
MAPK1 MAPK14
JAK2 ELP2
SHC1 IL2RG
COPS6 CRELD1
SRC CREBBP
UBL4A WDR20
NSF GABARAPL2
FH MDH2
CDH2 PTPRK
CASP2 NOD1
NOS1 CAMK2A
KIF3A PLEKHA5
SUMO1 SREBF2
NFKB2 DNAJA3
CDKL5 GRB2
VARS YWHAZ

EED ITGB7
USP44 MRPL40
MAP2K7 TRIB3
MAP2K7 TRIB1
PIAS1 CSRP2
PSTPIP1 DDX21
UPK3A UPK1B
MCL1 HUWE1
ARHGEF40 MYCBP
FZR1 CDC14A
CDK2 CDC37
PARP1 XRCC5
CARD11 MALT1
TGFB1 ACVRL1
PKP4 ERBB2IP
SHMT2 CSNK2B
CETN2 SFI1
PFN2 PLAUR
YWHAB SLITRK1
DYNLL1 TP53BP1
SRC ESR2
SFN ERFF1
SYN3 SYN1
CLASP2 MAPRE2
TRIP13 STAMBPL1
IRF2 IRF8
IPO5 DTNBP1
PRKCB CISH
SLC2A4ARFIP1
RUNDC3A AP2M1
SLC9A3R1 EZR
HSF1 REPS1
YWHAB KIF20B
SLC9A3R1 ATP6V1B1
FADD DDX24
TRAF1 TUBA3C
SCG2 PIK3R1
RFC4 HDAC1
MDFI ZNF581
UBTF ZMYM2

JAK1 STAT2
CDC42 RAB35
SMAD3 KLHL9
HCLS1 GRB2
SAMHD1 PHLDA3
NR1H4 CARM1
OXT NCK1
ATN1 ITCH
DCN TGFB2
MAP3K7 TUBA3C
AKIRIN2 SPG21
ATR SMC1A
NFKBIE HSP90AA1
KLHL23 USP22
DLX3 PRKCA
TUBB TRAF6
XPO1 NUP50
C6ORF47 FGFR3
JAK2 PIK3R1
VHL RANBP1
ZFP36 EXOSC8
TNFRSF1B HEATR6
UBE2D1 POLM
TBP REL
AMPH SH3GLB1
RPL10L MAP3K14
CDKN1A CDC20
HCRT NPFFR2
MYO1F EWSR1
CSF1R CBL
DAZAP2 TOLLIP
SEPT11 SEPT9
MASP2 MBL2
LGALS2 IKBKG
DTNB PPFIBP2
CDK5R1 CDK5RAP3
TEC WAS
NCBP1 BNIP2
HSPA1B IKBKG
NCBP1 BNIP1

MAPK13 CRAT
PRKCG ATP6V1E1
NCBP1 BNIP3
GMNN PHC1
CBL UBASH3B
COIL FAM115A
ESRRB NCOA3
HOXB9 RBPMS
STAMBP AMN
SCFD1 STX18
XPO1 EIF2C2
MLLT4 JAG1
KLF4 EP300
RAD21 WAPAL
APTX CNTROB
YWHAQ TSC1
NDN AUP1
MCM2 GINS3
SKIV2L2 EXOSC9
BCL2L1TP53BP2
CYTH1 IPCEF1
EEF2K MAPKAPK2
CREB1 CREM
EPB41L2 WNK1
YWHAG SRSF3
GRIA1 DLG1
PHLPP1FKBP5
ATF7IP CADM1
CTBP1 TCF7L2
CBX5 MKI67
EGFR PRKAR1A
CREB1 ACOT13
MCM10NINL
PRPF4 LSM4
C5AR1 ARRB2
TRAF2 BANP
CCT3 MAPK6
SYN1 CRK
ATIC CMBL
RELA SIRT6

REL NFKBIB
EIF1B ERH
CTNNA2 PTPN14
APBB1 SF3B2
C18ORF45 MDFI
NFKB1 REL
ANXA7 SRI
ATP6AP2 REN
TCAP MYOZ2
STAT6 MUM1
FCAR PILRA
TCERG1 ABI1
CCR10 CCL27
ZNF202 ZNF473
TP53 EIF2S2
BCAR3 PABPC1
CDK9 FKBP5
GABARAPL2 NIPSNAP1
MED9 MED23
FYN SCARF2
AGTR2 AGTRAP
ALDOA GPD2
MAGEA11 ZBTB16
ODF1 SPAG4
HSP90AA1 PPARA
SFN ING1
STAT5B JAK3
PPP1CAT USC3
TRIM27 MAGEA11
PLSCR1 EXD3
PSMC4 SRRM2
EP300 NCOR2
BNIP3L EWSR1
APC DST
IKBKE MLEC
IKBKE TTL12
BCAP31 VAMP3
PTPN12 THAP2
KCNH4 COPS5
AR MAGEA11

CALCOCO2 TCEB3B
RNPS1 SRSF7
HPRT1 FTSJ1
PAK3 RAF1
CCNE1 CCT2
THOP1 IKBKE
PKLR ARHGEF6
MAT2A ACTR6
HLA-B VMA21
SYN1 PFN2
PSMD3 IKBKE
EP300 GTF3C5
MAPK14 HSF4
EP300 GTF3C3
MRE11A PAXIP1
ZBTB7B GRAP2
PPFIA1 MBIP
FYN CAST
INPP5F FAM109B
RNPS1 CPSF6
MCM10 CEP70
APPBP2MFSD3
BMPR1A SMAD1
KIAA1967 MAGED1
GPC4 COL18A1
CRX NR2E3
KIF22 SIAH1
NOTCH1 MAML2
ENC1 TGFBR1
NTF3 NTRK2
UBE2E1 RNF4
CIAO1 AKAP8L
NR5A1 CXXC1
MTA2 APPL2
PAEP UBE2E1
HRAS LGALS1
DAZAP2 WWP1
DYX1C1 STUB1
KCNG3 KCNF1
NCOR1 MYOD1

NCK2 RHOA
MAP1LC3A ATG4B
EIF2S3 NDRG1
PIK3R1 SH3KBP1
GGA1 RNF11
HMMR MAPK1
SLC2A2PDX1
PSMF1 QKI
PIAS2 ITGB5
STX3 CPLX2
CATSPER1 BEGAIN
NCOR1 PPARC
CCDC85B ALS2CR11
FGFR2 EPHA4
CDK4 COPB2
GSG1 C5ORF44
RPS3 NFKB2
DVL1 HECW1
SPAG9 NFKB1
GABARAPL2 FYCO1
TBP GTF3C5
TBP GTF3C3
BMPR1A TAB1
NCF2 NCF4
NFKB2 TNIP2
ID3 TCF12
PPARC RANBP9
RAB3GAP1 FEZ2
TH1L DNPEP
FCHSD2 VCP
IPO5 H1FO
CSNK2A1 ZHX1
PTK2 PTPN11
SYT1 SMAD2
CRK LRIG3
HIP1 UBE2I
PRRC2A C1QBP
PRKRA PRPSAP1
MYF5 ID1
SKP2 USP18

RING1 UBE2D4
SHBG UBE3A
YWHAZ FOXO1
CNOT4 CNOT8
MGEA5 C6
MFN2 RGAG4
SYCP2 PITPNA
PRKACA RASGRF1
UBE2A MDM2
KIF4A DNMT3B
ITGAV L1CAM
SEC14L3 TAP1
CDK5RAP2 C14ORF1
PRKACA CACNA1C
RNF25 UBE2E2
NCOA4 MKNK1
VHL TLE1
EIF2B1 CREBBP
SMC1A ATG2A
CALR PLP1
ZAP70 SLA
RFC5 COPS6
BAG2 PSMD6
EP300 KLF2
TOB1 SMAD5
ATXN1 ZHX2
TUBB TNFRSF1B
RFX1 HDAC1
USF1 PPRC1
COIL CEP70
SOCS7 TUBA1A
AHSG FBXO2
MED7 TRIM29
ITGB5 DAB2
GABARAP GABRG1
SIX1 MDFI
CHEK1 XIAP
POU3F4POU3F1
ZFYVE9 BMP4
TP53 HSP90AB1

ZNF263 SUFU
PRPF4 USP15
DVL2 RNPS1
PLSCR1 TFG
BCL6 HDAC9
SPTA1 ADD1
WBP4 DDX23
PRKAR2B LASP1
PRKCD COPS5
FANCL DEC1
PCNA XRCC6
SOD1 EEF1D
SREBF2 KLF13
HIST1H1A CTCFL
STAT5B NMI
TUBB RIPK3
DLG4 NLGN4X
RDX TSC1
NEBL TRIM63
NCOA2 SRA1
TRAF7 CYLD
EPB41 PSMB1
NR2C2 CD2AP
PTP4A3 SRPRB
EPB41 SPTAN1
BMPR1A GDF5
ATF7IP PAPP2
MAPT MARK4
EPHB2 ERF
RANBP9 WNK1
STAT3 TSLP
PLCG1 COBRA1
NCK1 MAP4
PSME3 IKBKE
SKP2 CDT1
IMPDH2 ATG5
ACTB CNN2
LCK TRPV4
SRC SMARCE1
ATF1 CREM

NCF2 PRKDC
PFKL COPS6
INSL6 CRCT1
RAF1 HSP90AB1
AGT AGTR1
NPPA NPR3
PTP4A3 TNPO3
KRT7 LAPTM5
DRD2 FLNA
PSTPIP1 ATIC
CD59 GRB2
TRIM27TRIM23
COMT MCC
FKBP3 TNIK
RGS16 GNAT1
PIK3CA GRIN2B
RELA FAM123A
PPP3CBSLC8A1
TCEB2 CEBPE
PTTG1 NUP98
ADAM17 FHL2
TTR EEF1A1
GEMIN4 DDX20
EIF3H POLR1E
DBC1 SMPDL3A
TWF1 Bmpr2
MAP3K7 DNAJA1
CNOT4 UBE2E1
TRIM28CDCA4
SLX4 ERCC4
MAPT CASP6
MAPT CASP7
RANBP9 DISC1
RAI2 FHOD1
FLNA FLNB
PLSCR1OGDH
MAP3K6 MAP3K5
NPM1 TRAF6
MYH10 ZNF512B
CSRP3 LDHD

CNOT7 CNOT6
JAK2 PLCG2
PCNA HLTf
ATF2 ZMYM4
NFKBIE EPRS
NOTCH2 MAML3
HIF1A KAT2B
ZSCAN1 MED31
EWSR1 NLE1
SERPINB9 SETDB1
NR3C1 SMARCA4
CLPS PNLIP
BLM FANCM
MAPK3 RALGDS
ILK KCTD5
NR3C1 SMARCA2
DPP4 GPC2
HCK TRPV4
YWHAB ALS2
STK25 SLMAP
CDC25B FBXW11
RPA1 BLM
MYC SNRNP70
ATXN3 TEX11
BUB1 BUB3
CFLAR RAF1
HMOX1NOS1
SFN PTOV1
PPM1B ARRB2
KCNIP4FAM120B
MAPK1 TNKS2
ACTA1 SMURF2
DNAJB1 SERP1
UBE2W RNF150
MAP3K14 IKBKG
TUBG1 TUBA3C
FBXW7 HEY1
NR5A1 PROX1
TCEB2 TSC22D1
ATXN1 TCEANC

MAGEA11 VTA1
MAPKBP1 APTX
UFM1 UBA5
ACTB LGALS13
TTR EEF1A1
SET SGOL1
TGFB1 RNF130
NRG2 ERBB3
SKIL HDAC1
ZNF593 ZNRD1
MYF5 ID2
GRM1 GPRASP1
HSPA5 RELA
NCOR1 HIST1H4I
PSMD7 PSMD1
HGS WNK1
HBM THBS1
DCTN2 BICD2
UPF1 SMG5
DLG3 CRIPT
CUL1 COMMD1
SKIL SNW1
WASL RHOQ
ATXN1 NUMBL
SIN3A MBD3L1
MLF1 COPS3
LAMA5 FBLN2
MYOG POLR2C
STK25 PPP2R1A
MAGEA11 MYOZ1
STK25 PPP2R1B
GDI1 RAB27A
SCAND1 ZSCAN21
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MED14 ABL1
HCK CBL
SKP1 FBXO41
RNPS1 SREK1
GLUL NUDT18
SKIL TDG

ZNF277 MAP3K2
SAP130 SUDS3
SLC25A6 CUTC
CASP9 BIRC6
NR5A1 CREBBP
NCS1 KCND2
TMBIM4 CMTM6
CLDN3 TJP1
TGFB2 FSTL1
MAPK8 HDAC9
CDKN2A ING4
RELA NCOR2
TOB1 RPS6KA1
EPPK1 INPP5K
CDK9 PIN1
PTP4A3 TMEM33
KCNH4 HOXB13
EPRS IARS
SUMO1 CHD3
THPO MPL
EGFR GAPDH
RUNX1 TCF12
SETDB1 USP11
CD63 CD82
VCP SVIP
LMO2 SMAD2
CCNA2 UIMC1
CLU DISC1
UBE2N UBE2V2
TAF5 TAF15
FGF1 FGFBP1
CASP9 CYCS
WNK1 ZNF839
SGK1 HNRNPM
RAP1GDS1 ZNF451
THOC4 RBM8A
ERN1 HSPA5
MCM3 RAD52
HGS GKAP1
ITGB2 FHL2

RAF1 PPP1CC
HNRNPU RUVBL2
TP53 MTA1
CRX C2ORF65
SCNN1B COMMD1
PDPK1 PRKCB
ARL2 BSND
APC TRIOBP
HSP90AB1 WNK1
DLG4 NLGN1
PIK3R1 YWHAG
IARS AIMP2
VDAC1 CYCS
MAOB RPS27A
BCL2L2BAD
ATAT1 NCOA2
DDX58 ATG5
EPB41 MYH1
MTA2 RBBP7
PFAS IKBKE
CDK9 ATR
KIAA0776 CASP4
YWHAQ CSNK1A1
LAPTM5 SMURF2
CCNT1 HEXIM2
MAP2K1 ZHX2
ARRB1 CDC42
TP53 ATM
TP63 SATB2
PRKCI USP20
FOS SERBP1
AGT MEP1A
RNASE4 RNASEH1
FASN MAP3K3
PDGFRA SHB
RPF1 LAPTM5
CP GAST
HRAS PIK3CA
PIR BCL3
TP53 PPP2R5C

ESR2 MED16
HARS TARS
STAT3 PTPN11
LCK CD247
MAPK3 PTPRJ
BCL2L1PMAIP1
TGFB1 TGFBR2
PFDN1 KIAA1377
FAS CD47
PABPC1 SYCP3
MYH10 MARK4
YWHAE NDEL1
TNR SIGLEC1
MED10 MOBKL3
UBQLN4 RNF11
UBE2I DTX3L
TERT SMG6
BLOC1S2 MUTED
LCK RASA1
SRF CREB1
CDK9 MED21
APAF1 CASP3
PIAS1 GATA4
EDA EDA2R
SYK TUBA4A
PES1 ARRB2
MAPK3 CDC25C
KIAA1967 PHLDA3
KCNA4 SNTG1
HTR2A GNA11
ATP2A2 TRAF6
TAF10 SPTAN1
POU2F2HMGA1
GTF2B PKP2
PMS1 FAN1
DMWD TSNAX
NCL RELA
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TCF21 LMO4
MAPK14 MUC12

TLX3 DAND5
WBP4 SF3B3
CBFA2T3 LDB1
ACTA1 CYFIP1
DVL2 FAM105B
ADAM9SH3GL2
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YWHAG CRTC2
CTNNB1 SOS1
HFE TFR2
E2F1 NPDC1
HSPA9 DNAJC19
EFEMP2 FAM124B
RPA2 XPA
SORBS3 HNRNPK
IL11 IL11RA
RGS2 DDR1
PRKCD INPP5D
KIF5B KLC3
HMGB1 TLE1
HMGB1 TLE2
ZNF225 NFATC2
EFNA5 EPHA4
EFNA5 EPHB1
RAB14 EEA1
HIPK1 SNIP1
CDC73 RTF1
HDAC1 GATAD2B
PIK3R1 CRK
SOD2 MYH8
FFAR2 GNAQ
THRA NCOA1
GNA15 OPRM1
NPM1 EPHB3
SRC BCAR1
RANBP2 CBX3
PIK3R1 CRKL
ITGB3BP ENOX1
ILK IGF2BP1
SYNE1 DISC1

CDH1 CREBBP
PTK2B SORBS1
EFNA5 EPHA5
HSP90B1 SMARCC1
RNASE1 RNASEH1
YARS IKBKE
HLA-B FUS
CALCOCO2 ZNF101
EIF2S2 CSNK2B
NR0B1 NR5A1
PRKDC RELB
MYC CSNK2A2
ABL1 BCAR1
FBXO5 FZR1
SKP1 FBXW9
SKP1 FBXO31
RBX1 FBXW8
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SNAPIN TRPV1
EPHA4 NGEF
DLGAP1 FYN
PPP1CAATM
CD3E PIK3R1
PLSCR1ILF3
TTC28 SSPO
LIMK2 ROCK1
DDX3X CD40
NPM1 ARF1P1
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ZNF277 RAPGEF2
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ABHD16A HNRNPA1
TFPI MMP12
KIF1B DLG2
CD4 CD38
NUDT18 KCTD17
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BMP2 SOSTDC1
FYN MAG

HNRNPU BTRC
HLA-A DEK
CDK4 PCNA
FXR2 AMOTL2
MYH7 TEAD1
RELA COMMD1
CDH1 HDAC2
PIP5K1C LRP2
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PEBP1 CACHD1
DEDD SMAD3
RFC4 PMS1
HDAC2 SMC3
WWP2 UBE2L3
DLX5 MAGED1
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BMI1 PHC3
MEF2A USF2
AEBP2 RALYL
RASSF5SAV1
BMPR2 TOPBP1
LDOC1 KRT15
TP53 MAPK9
YWHAE WWTR1
TACC1 CKAP5
RPS6KA4 FOS
GNB2L1 DDX19B
YEATS4 TFAP2B
BCL2L11 MAPK8
SOCS7 PLCG1
USP8 GRB2
BCL2L11 MAPK9
MED10 MED16
BMPR1B RASD2
MYBBP1A DDX56
TBC1D25 FEZ1
AR PMEPA1

ILK PCID2
ACHE GNB2L1
ACHE LAMA1
HMGB1 FOXA3
PCNA POLD1
PSMC3 PSMD7
NEK6 PTPLAD1
UBE2D2 UBE4A
EIF3A UPF1
PVRL1 PVRL3
HDAC3 GCM1
PAFAH1B2 PPP1R12C
MOBK3 CTTNBP2
EEF1D FTSJ1
FYN CD247
RPS4X MAP3K14
USP8 RPS27A
PBXIP1 CCDC53
APCS FCGR2B
MCC SFXN1
SFN RALGPS2
GAPDH APP
ERBB3 HDAC6
POLR2E RPAP3
RAG1 HMGB2
SMARCD3 SMARCC1
SFN LSR
NR2F1 HNF4A
GAPDH NR1H4
CTLA4 PIK3R1
DFFA EWSR1
EXOSC8 EXOSC1
CDK9 SNW1
CDC42 CNTNAP1
TP53 RCHY1
GP1BA YWHAZ
HIVEP2 YWHAG
USP19 PTCRA
CRK RGS7
LIN7A DLG4

SKIV2L EXOSC4
TP63 JPH1
ATP5B IKBKG
CDK6 RUNX1
MAFG GTF2A1L
SLC9A3R1 GRK6
HAP1 ZNF33B
AR MAPK1
RHOB KCTD10
RFC1 RFC5
MAX DST
MTSS1 HTT
RFC1 RFC3
WBP4 SF3A2
ZZZ3 PCBD2
INS GK
WBP4 SF3B4
NRCAM MACF1
EIF4G1 USP3
STAMBP UACA
XPO1 EIF2C1
TNNT1 FXR2
MCM3AP TMEM216
ESR1 LDB1
SIAH2 AKAP1
KCNA4 NDUFA4L2
GLRA1 HMGCS2
HNRNPA2B1 SREK1
TNNT2 TNNC1
TCERG1 NONO
EPB42 STX12
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FOS BCL3
ERBB3 CDK5
HIF1A COPS5
DAPK3 DAXX
NDN SRPRB
OTX1 KRTAP4-12
SFN RHPN2
BCL6 ZMYND8

SDC4 CXCR4
MYO5BKIAA1549
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CACNA1F FYN
NAPA STX1A
HEXA CRK
MMP13 CCL7
SUMO2 HSF2
FMR1 NUFIP1
SUV39H1 DNMT1
POU2F2XRCC6
GABARAP PDCD6IP
USO1 STX5
SYNJ2 ITSN2
MAGEB2 LXN
GPRIN1 CAMK2A
CD5 CD79B
ATP6V1E1 TRAF6
WNT5AFZD5
CCT6A PPP4C
WBP4 WBP11
PABPC4 SREK1
HSP90AB1 MAP3K14
COL4A1 TGFB1
TRIM2 UBE2D4
LRDD EFEMP2
MED17 MED19
FAM107A TRAF2
HSPA5 DPH1
COL8A1 UBQLN4
SRI ALG2
PTPN1 STAT5A
HOXC11 SOX8
SEMG1 UBQLN4
MTPN DSTYK
GLRA2 FBXL15
HIST1H1C PRKDC
BNIP3L STEAP3
APC SFRS18
DYNC111 DYNLL2

PPP1CA PPP2CA
TP53 CD40LG
PHYH PTH2R
SOCS1 MAP3K5
PDC ADRBK1
NFIC RFX1
MRPS28 TFCP2
CASP7 CLSPN
GRB2 USP53
NCOR1 CEBPB
AP2A1 EPN1
PML SIN3A
TP53 HSPA1B
RADIL POLR1E
TAF10 TAF9B
CCDC90B SDHAF2
CASP1 IL1F7
EXOSC10 PTGES2
EPOR CRKL
GNA11 BDKRB2
RECQL5 POLR2G
KLC1 ODF1
XPO1 NXT1
CRK DLGAP2
PAK1 CRIPAK
DUT PLEKHF2
EIF3H CSNK2A1
RHOC PINX1
MDM2 ZNF766
ESR1 RBM23
CHRM3 ARF1P1
EPB41L5 PRKAB1
DYNC111 BICD1
ARF3 PICK1
EFNA2 EPHA7
DMC1 DNAJA3
MAPK7 MMRN2
RAB6B RABGAP1
CDK2 CDKN1A
CTBP1 TGIF1

COL1A2 ITGA2
HDAC2 PA2G4
PRKCA PPARA
HNRNPF VAV2
BRP44 C20ORF24
ISL1 LMX1A
ATG12 ATG16L1
VHL DTYMK
CDK4 NCOA2
IDH3A IDH3G
MARS RELA
ZFP36L1 WNK1
CYCS BCL2L1
PHYH COPS3
CD47 UBQLN1
SRC CD97
FEZ1 KIAA1377
NCOR1 GRB2
CDK1 MNDA
EIF2AK2 TARBP2
BCL10 UBE2N
UBE2E1 UBE2G1
SPEN SRA1
NCOR1 RPS27A
DNM1L BCL2L1
NCAM1 GDNF
CCND2 TSC2
ST13 MAP3K3
TTC37 PAF1
YWHAZ TFPC2
MED10 MED31
YWHAZ AKAP13
C5ORF25 WNK1
GINS4 GINS2
GLP1R GPRASP1
BCL2L2BMF
ESR2 REXO4
STRN STK24
YWHAH USP43
TNNT2 MAP2K5

HOXB1 PKNOX2
MTA1 ZFPM2
TRAPPC3 TRAPPC9
ATXN1 NCOR2
TUBB4 LIG1
AP4M1 AP4E1
SSR4 TSC22D1
HMGB1 FOXC1
ADCYAP1 VIPR1
FGF2 FGFR2
WDR5 MBIP
WBP4 SF3A1
POLR3A GTF2B
EGFR JUP
AR SMARCE1
NCK1 MEPE
ACTB STX4
CDC25B SFN
NEDD8 FTSJ1
CDC25B YWHAB
NAA38 EXOSC6
ATR CHD4
RYBP RNF2
SS18L1 NR1H3
RBMX ZNF490
VTN FGF2
MAP2K1 MAP3K4
CDK2 MCM3
DYNLL1 PAN2
OBSCN RAPGEF2
TGFB2 TRAP1
LETM1 MCC
CSN2 RAC1
BEST1 PPP2R5A
LPHN1 SHANK2
ZFP36 XRN1
YIPF4 YIPF3
MUC1 ERBB3
CUL2 DCUN1D1
SETD1A WNK1

PRKAR1A NCL
KLHL2 KLHL12
HSPA2 EWSR1
DDX11 CHTF18
PGAM5 ZRANB1
UBE2I DHX9
SUMO2 HNRNPK
PPIH MEPCE
PRPF3 CCDC85B
SERBP1ARX
UBE2D3 LRSAM1
TRIM27PIAS4
SMAD9 TTC37
RPL5 AMFR
TOP2A CTNNB1
FIGF FLT4
MYOD1ID3
UBE2D2 RNF111
ACTN2 LRRC7
KRT14 TRADD
MAP1LC3B TBC1D2B
ZAP70 CBLB
MAP1A NXF1
RAC1 MAGI1
STRN CCT7
TNFRSF1B SLC25A1
CREG1 IGF2R
TRDMT1 FANCI
TAF1 GTF2E1
EDF1 PPARG
PLCG2 DAPP1
GADD45G PTN
DDX6 EIF2C2
SFN YWHAZ
ITGB2 PTK2B
RAC3 CWC15
LMO2 ELF2
GTF2F2ARNT
TUBB IKBKG
TAF1A TAF1B

EZR CASP10
ACTA1 SCIN
MAPK8 HSF4
FNBP1 GABARAPL1
S100A4 NOV
NCOR1 PPARA
IL16 KCND1
INSR SMAD2
TDP2 TNFRSF8
WWP2 CLCN5
XRCC6 TBCD
MYB CEBPE
CDC42 ARHGEF6
MAP3K12 MAP3K11
TJP3 OCLN
NDEL1 ZNF230
STAT1 EIF1AD
LGI1 DLG4
RAE1 AGGF1
STX11 FHL5
RPA2 RAD52
GOT2 PC
NFKB1 NFKB2
CUL5 COPS3
DMWD SDF2
MATR3 HNRNPK
UBE2K RNF111
RHOQ TRIP10
CAND2 UBE3C
ACVR1B TGFBRAP1
IL4 CD53
SMAD3 C10ORF118
PDCD6IP UBA5
FGR SYK
CASC3 MAGOH
NUP205PHB2
RNASE4 ATP6AP1
GADD45A PPARA
IRS1 TUB
MLF1 YWHAZ

PTBP1 ZMYM2
SFN CCAR1
NCOR1 ATXN3
ID3 MLX
RPL8 ARL15
NCOR1 ATXN1
PMF1 DSN1
EIF1B PIN1
AIRE MYBBP1A
PLD1 PKN1
CAMK4CAMKK2
BLM TP53BP1
PRPF4 LSM2
MARK3DYNLL1
TOB1 SMAD2
CDC37 NEK6
TOB1 SMAD1
EWSR1 ZDHHC3
WBP4 SF3B4
FANCA NAMPT
AKT1 HIST2H2BE
CCDC85B LMO3
LPXN ZNF426
UBE2I RNF128
CHD3 IK
SND1 CREBBP
SH2D1A SLAMF7
PTS WDYHV1
EP300 STRAP
NFYC CIC
DSPP NFKBIB
MEN1 MYB
STRN3 SIKE1
AR DCC
PARP1 RXRA
PLEKHF2 SPEF1
MCF2 RPS27A
MARK3YWHAZ
NFKB1 CLTC
C10ORF12 EWSR1

ACTR3 CTTN
GH1 GHR
BCAR1 GRB2
PSMD2 PSMD5
RELA NCOA3
NEFL YWHAG
GRN CDK9
RPS27AUSP36
STRN CTTNBP2
CCAR1 TRIM55
APC MINK1
PRKCD CREBBP
BMPR1B DCAF12
MLLT4 NRXN2
CD47 BNIP3
RPS15AMAP3K14
SYK RPS6KB2
MYOD1EP300
PHYH ACSL6
RASGRP1 VHL
PRMT5 SSTR1
CAV1 GJA3
CUL4A DCAF4
GFI1 PICK1
KIAA1217 SORBS3
ATG12 KRTAP4-12
SDC4 SDC2
FAS TRADD
MAP3K7 RIPK1
HSPA4 TELO2
DSPP STK24
MTHFD1L MAGED1
CUL4A DCAF12
MYOD1TCF4
PGR DAP3
GATA2 EP300
ITGB1 ITGA8
NFKB1 NFRKB
CXCL13 CCR10
PRKCA AVPR2

ETV6 ACTA1
GTF2H1 CCNH
RPS5 SRRM2
MTHFD1L NEK6
NUP214NXF1
PPP5C GNA13
SFN PACS2
PTPN2 CDK5
DAND5 SMARCA4
TPM1 TNNT1
PPP2R1A PPP5C
PRKCA PICK1
RET DOK5
GNAI2 CXCR5
PDGFRB PRDX2
PRKCB HSPA4
PTP4A1 ZNF182
NDC80 RB1
YWHAZ MSL2
LPA IGSF21
ULK1 CDC37
CALM2 PPP3R1
BCAP31 TRAM1
EMD HDGF
PTAFR RGS4
EPB41 PIN1
NLRP1 PYCARD
AMPD1 MYH2
RAP2A MINK1
ZNHIT1 TP53BP1
HTRA2 XIAP
ORC2 CDC5L
TRADD ATAD3A
ERCC3 GTF2E2
GTF2E2 MDM2
ATG3 ATG4B
APBB1 CYFIP2
ELAVL1 TNPO1
SMAD9 NAGK
DVL2 TIFA

RRP1 PINX1
EPOR KITLG
HNRNPH2 YWHAZ
GAP43 CSNK2A1
ERCC3 GTF2E1
SUMO2 LEF1
BCL3 NCOA1
DLEU1 UBR1
DAND5 CHD3
PAK4 GRB2
GRIK5 LRSAM1
STK25 FGFR1OP2
MTHFD1L PHLDA3
MTA2 DPEP2
PGLS EWSR1
DDB1 CDT1
THRA OASL
THRA TRIP11
SLC22A3 PDZD3
IL3 BCR
MAPK3 HSF1
SIRT1 USP22
BNIP2 BNIPL
HIST2H2BE BCCIP
APLP2 SPON1
DAPK3 MET
CDK9 TRIM28
APBB1 CCDC97
HSPA4 TRAF6
THRA MED1
GFI1 PRDM5
HSPA1B RAPGEF2
MAD2L1BP KIAA1377
SYK HDAC6
SMAD9 LNPEP
TSC2 SKP2
GSTM3 PAK2
PRKCA YWHAZ
PSMB3 PSMD6
ITGA2 CIB1

SFN TSC2
EEF1A1MYOC
NPR1 ATF7IP
APOB HSPA5
NFKBIA SKP1
CNOT6L TNKS1BP1
KIT CBLB
PRKCA CHAT
COMMD1 COMMD10
MATN2 COL1A1
PDCD6IP GSTK1
SREK1 SRPK3
PCDH17 UBQLN4
MYST2 C15ORF29
DAPK3 DAXX
DCTN3 ATXN1
SH3GL3 WDR33
CST6 CTSB
APC KIAA1524
RPN1 RAD23A
ARF6 KIAA0090
PAX3 MSX1
KIT MPDZ
PSPH ASF1B
MATN2 COL4A1
PSMD12 USP20
SPINT1 FAM46A
PRKCB GRM5
SMAD9 MBD1
SMAD3 KIAA1267
RPF1 PRPF8
MYH9 NFKB2
BIN1 SH3GL2
GLI1 SUFU
PTPRG TEK
SLC25A3 RIPK3
TFPT TCF3
PRPF40A FMNL2
SERPINC1 KLK2
ZNF521 EBF1

CBX5 HIST1H4I
HDAC1 MBD3L1
CSF2RB MAD2L1
ICMT HRAS
SMAD3 EP300
TNFAIP3 GLDC
KEAP1 FAM46A
VPS11 STX8
LCK PRKACA
IFIT5 MAST1
RASSF5MAP1LC3A
LGALS3 LIM2
FOXP2 FOXP4
EP300 LGALS12
HSPA1B MYSM1
HGS UBC
ZNF24 HAP1
BRCA1 MED17
ID1 NKX2-5
SPI1 HDAC1
ITSN1 EEF1A1
MAPK1IP1L EWSR1
CDC42 FMNL2
BRCA1 DHX9
LASP1 DAZAP2
SFN PPFIBP1
PAF1 RTF1
CHAT CAMK2G
CAMK1CAMKK1
MAP3K5 TRAF6
BCAR1 FXYP6
CDK9 HNRNPA0
AIFM1 CASP3
DAND5 BRCA2
CENPF NDE1
FAR1 C20ORF24
STAMBP OTUB1
SHCBP1 ZUFSP
RRAS2 PAWR
VHL PLP2

CAMKK2 SMC3
SAP18 YARS
FYN SRC
SLA TIMM50
CASP4 CTNNBIP1
RAN VRK3
RHOC IKBKE
PRKACA ATP2B1
ATF7 ACHE
FXR2 TSC22D4
NFKBIA ACTG1
KIF5B ARF6
AMOT LIN7C
ZZZ3 TRIM22
ATN1 CTNND2
MYO7AKEAP1
SLC9A3R1 PLCB2
PER3 CRY1
ATN1 BAIAP2
MAPK1 PLK3
APCS GRB2
QARS AIMP2
A2M PRDX2
RUNX3 HDAC9
IRS4 NISCH
EIF2S1 EIF4G2
NCK2 RHOV
DNAJC7 SMURF1
SRC CEACAM21
PPARG ZNF496
MYH10 BCAP31
ALDH2 FAM45A
PRMT1 TNIK
TACC1 AURKB
SLC38A1 TP53TG1
SMAD9 XAB2
IL6R ERAP1
TAL1 SATB1
NAPA SOS1
WEE1 FBXW11

CDC27 ANAPC7
ACTA1 MYO10
TAF4 CBX5
TIMP1 MMP2
MED17 MED29
TCERG1 PCBP1
NR2F6 ATP6V1D
TIMP1 MMP3
CALM2 YWHAZ
SRF FHL2
PHLPP2WDR20
SLMAP MOBKL3
LDOC1 NRIP1
CCDC85B LNX1
NGFR PRKACB
DRD1 CAV2
EWSR1 CCDC7
PRKRIR EIF2AK2
RGS19 OSTM1
NEK1 ZNF350
TBXA2R GNA11
YWHAB FRMD6
ILK FANCI
TACR3 GPRASP1
ID3 IFI16
MMP2 SPOCK1
TUBA3C TANK
TAF4 CREB1
F2 F2R
BRCA2 USP11
CHMP5 CAMK2A
TIMP2 RAB3A
ZEB2 CTBP2
NR4A1 ERC1
NMT1 CABP1
GLCCI1 VPS28
TGFB1I1 SVIL
MCC PSMA3
PCSK1 CTNNB1
CD28 CD86

JAK1 JAK3
CDC27 GRB2
SALL2 EWSR1
RECQL5 PRKDC
HNRNPF NDRG1
ARVCF CDH2
TCERG1 SF3B3
PRPS2 PRPSAP1
VASP TES
CCDC85B ZNF417
EGFR MAP3K12
IKZF5 IKZF2
SFN RFFL
APC ZFP106
GZMB BID
ERCC2 RAD51
HRAS DGKZ
E2F2 MCPH1
GNAO1 DCTN2
BACH1 BRCA2
CDC42 CDC42BPA
ROGDI DISC1
TCP1 CDC20
SPI1 MECP2
TP53 TP53BP2
MET SMC1A
BCL6 HDAC4
MYC EFTUD2
TGFB1 FLNA
IKZF5 IKZF3
RPA2 COPS6
GTF2H1 MMS19
KCNJ2 DLG4
HSPA4 REL
FOXO4 CREBBP
MAPK14 SMEK1
ZAP70 LCP2
IMMT BMI1
G3BP1 ASCC3
MTA1 MBD3L1

H2AFX NLRP2
ACTB MYO1E
RNASE2 ABCE1
MYC BRD3
CACNB4 CACNA1A
SYN1 PLCG1
BCL2 PPP1CA
GABARAPL2 UBE2O
EPB41L2 YWHAE
MAPRE2 PHLDA3
MDM2 RASGRF1
GLRX3 RGS20
NUDT21 RELB
ESRRA EXOSC6
CLTA GRB2
IMMT BMI1
BCL2 PPP1CB
FYN GUCY2D
UBE2N TRAF6
HSP90AB1 RPAP3
PGRMC1 MTNR1A
SETDB1 ZFP64
CCL22 CCR4
GAP43 SHC1
RBL1 PHB
RGS20 GNAI3
NUP153 USP20
STAT5A NCOA1
MLLT1 DOT1L
SMAD1 RAB6B
CDC5L SFI1
YWHAZ PTPN13
MAP3K7 UBC
UBASH3A DNMI
SAP18 NUP93
TP53 ZNF24
HSPA5 PCSK7
DYNLL2 HOMER3
SMAD4 MEX3B
USF1 RBBP7

CCDC90B ARL15
POP7 RPP38
PPP1R15A EIF2S1
POP7 RPP30
UCHL1 LAMP2
RAD17 USP20
NPHS1 CDH3
BRAF RAP1GAP
RELA ASCC1
PSMD14 UCHL5
SPINT2 CTSB
YWHAZ LRMP
EEF1D MAPK14
KHDRBS1 GRAP
RELA BANP
EWSR1 DMRTB1
KLF3 FHL3
SMARCC1 BAZ1B
RBPMS QKI
UBTF TLE1
PPA1 WIPI1
KIT STAT5B
CDC20 CDC16
CUX2 CSNK2A1
PSMD4 ACO2
ESR1 NFKB1
PTTG1 CDK1
KHK RNPS1
MYOD1TCF3
MAP2K7 ERC1
PDPK1 SND1
PDCD6IP RNF11
FLNC KY
SORBS3 ZBTB25
NR4A2 NCOR2
TBP TAF9
TPM4 PACSIN1
APC KIAA1370
SUPT3H MED17
TRAF2 TCEANC

PIAS1 SUFU
NHP2L1 RBM10
PABPC1 CDK2
KCNH4 CREBBP
SUPT5H HTATSF1
YWHAZ TRAP1
FGFR1 TENC1
SNRPA PTBP1
TGIF1 SMAD2
DAND5 VHL
TGIF1 SMAD1
AXIN1 NCK2
NOS1 STUB1
PLSCR1NECAP2
EWSR1 ELAVL3
SFN HDAC4
ACTB NRAP
AHR DDB1
RB1 MORF4L2
MAPK14 BAZ1B
TRIM23 TRIM29
PPP1R8 CRMP1
HOXA3 PWP1
TGFBFR1 CSNK1A1
GSK3B DDX20
ROCK2 RHOA
BCL3 RUVBL2
ACTN2 UTRN
DTX3 UBE2W
DHX16 MEGF10
TRIP13 PLAC8
GLRX3 KRTAP4-12
ANKRD34A IER3IP1
XRCC5 NCOA6
HLA-B ARX
EIF1B PAICS
MET SH3KBP1
CDK2 CDKN3
GRIN2D DLGAP4
KPNA1 LEF1

IKBKB MAP3K1
SCNN1G COMMD1
SF3B2 CDC5L
PPP1CCPPP1R2
MAP3K5 MAP3K2
GZMB CHRM3
PSMD6 PSMD1
ASAP2 PACSIN3
WEE1 SMAD3
HDAC3 THAP11
TRA2B YTHDC1
MAN1A2 GTF2F2
MAPKAPK2 PINX1
PAEP COPS6
MAPK1 DUSP5
DAZAP2 RNF208
CCDC85B TSPYL4
STAT3 IL23R
YWHAB AKAP13
ZIC2 GLI1
FYN HNRNPK
IGF1R YWHAE
F2 GP5
ZZZ3 BLZF1
TMEM33 NDN
TYR TYRP1
ASS1 MLH1
USP19 USP7
CUL4A COPS8
HSP90AA1 HSPA4
BCL6 BACH2
TP53 TDG
HERPUD1 DERL1
AR CTNNB1
XPO1 CIITA
DMAP1 DAXX
CSNK2A1 GTF2A1L
SAFB2 MAP1LC3A
UBE2E1 RNF167
ZNF646 MDFI

SSFA2 LUC7L2
EWSR1 HLTf
CSNK2A1 FAF1
AR PHB
EXOSC8 FHOD1
ACTN1 SLC2A4
PRKCG GRIN2B
ATXN1 PLEKHA5
CDK4 RFC1
PAK1 ARHGGEF6
TEAD2 VGLL1
MRE11A SUMO2
TP53 HDAC1
CAPG NCAPH
TRIM2 MYO5A
MAPK8 DUSP4
ADAM15 SPAG5
PABPC1 PCSK7
SAFB USP45
CDH1 RAB8B
CD22 ATP2B4
LTF LYZ
TFAP2A CTNNB1
UBC OTUB1
CDK9 SKP2
NFKBIA VCP
PSMC3 PSMD4
CUEDC2 EWSR1
HOXC9 IRF9
FGF4 FGFR1
TAB1 HSPA1B
RPE65 SLC27A1
PSMD6 PSMB7
TGFBFR1 TTC27
PAK1 CDK5R1
FXR2 ZNF451
SETDB1 TOLLIP
PRKD1 HDAC5
GTF2B DHX9
THRA NCOA2

CTBP1 PNN
AP2A1 CD22
CXCR2 GPRASP1
MYO1CGIPC1
ACTN1 COL17A1
MEPCE RQCD1
CRYAA CRYBB2
SFN HDAC9
AP2B1 SMURF1
VHL SSR1
GIPC1 MARS
SCAMP1 EPS15
APOB LIPH
BAHD1 KRTAP4-12
TBP RUVBL1
KNG1 APP
SGSM2 EGFR
PRKCA RAC1
DAND5 KIF1A
YWHAG DISC1
GNAI3 CXCR2
MED14 MED26
RPS4X DAXX
MED7 MED8
CDC42 FNBP1
ZNF512B MBD1
TFE3 MAP4K5
NRIP1 CCDC85B
SRSF7 RBBP6
SGSM2 CA12
FOS SRFBP1
LCP2 TRAT1
CCDC85B MOBKL3
ARIH2 UBE2D4
DAND5 SREBF2
EPB41 FHL1
WASL ITGA2
PSME3 TAF1D
RHOA OTUB1
MT-ND4 MEF2D

STRN3 SLMAP
ARNT NCOA7
MED17 MED9
PRKCA CISH
SMARCA5 POLR1B
NCAPD2 SMC4
STRN4 ZRANB1
TGFB1I1 AR
EXOSC2 EXOSC6
RECQL4 RECQL5
CDKN1A RPS27A
CFL1 ACTB
TGFB1 DAXX
SRP72 RPAP1
BEND5 USP7
TCERG1 SF3B4
PARP1 NFKB1
TCERG1 SF3A2
PSMA3 FTSJ1
CUL4A RFWD2
THRA TAF11
TNFRSF4 TNFRSF9
THRA TAF7
ELAVL3 RNF32
RPS27AMARK1
GIPC1 LHCGR
PTPN4 ATRX
DNAJB1 MAP3K3
L1CAM NUMB
BMI1 INSL6
VIP PRICKLE1
PSMD14 PRKAB1
IPO4 ASF1B
NFASC CRK
RAD17 PCNA
NSF STX5
ARL6IP6 ARL6
PEX5 SIRT3
PRKCE BAX
SNAI1 RPS27A

CTBP1 FOXP1
RB1 POLA1
AKIRIN2 LNX1
ATM DCLRE1C
NDUFA1 TRIM63
MAPK6 C3ORF23
CDC73 SYMPK
RAC1 ARHGAP27
VHL NR4A2
NPM1 RARA
ZNF764 MDFI
UBE2U TRIM68
SPP1 CTNBL1
CAMKK2 WNK1
NRIP1 CSE1L
STK38 MYSM1
CYP4F8DBNL
NMI NECAP2
MLH1 FCGBP
CRYBA4 CRYBB1
PTK2B PITPNM3
MDM4 ATM
DAND5 HCFC1
PTK2B PITPNM2
MET SPSB1
SMAD7 STAMBPL1
GFI1B LTBP4
LRPPRC IKBKE
RHOA ARHGAP5
HNRNPC GRB2
GRM2 GRASP
RDX ABCC2
MPL PTPN11
NRIP1 NR1H2
PRKCI GABARAPL1
DAND5 MECP2
PABPC4 PHLDA1
PGR GNAI1
DTNB C1ORF182
PIK3R2 YWHAB

MSH2 EXO1
YWHAZ TNS1
SLC9A3R1 SLCO3A1
TM4SF1 DNAJA1
BIRC5 AURKB
GRK5 DLGAP2
MYC FASTKD2
FBXW5 MDFI
CNBP RPL31
HLA-B AIMP1
DHX9 WRN
CDK4 SMAD2
UBE2E1 ZNRF1
MYOD1ID2
FAM3A SLC2A4
TCERG1 SF3A1
BEND7 PLEKHF2
CTNBL1 DDX21
MRPS14 DDX56
RELA USF2
ANXA13 KIFC3
ZBED1 NIP7
RIPK1 CYLD
MAP3K3 RUVBL1
XRCC5 BIN1
CBX5 ATRX
SKIV2L GALNT13
MEPCE ANP32B
NR3C1 STAT5B
MAPK13 ANKLE2
CBLB BLNK
IGFBP2 KLK2
CHD1 BCLAF1
BCAR1 VPS11
TRIM25 TFG
DCAF6 WNK1
IL2RB EIF3B
SHC1 DOK1
EIF4G1 TRAF6
ROS1 PTPN1

DHX29 PISD
TERF2 PRMT1
MAP3K3 CFL2
ACVR1 RASL12
MAPK6 RIBC1
DBN1 HOMER2
HLA-B TRAP1
NUCB1 NDN
NCOA6 NCOR2
CUTA MLH1
TRIM37 APTX
TCAP MYOZ1
CAPN1 SPTAN1
YIPF6 YIPF2
CCDC99 KIAA1377
S100A9 PAK7
RAD21 PDS5B
STRN PPP2CB
EGFR PTPRJ
SPTBN1 TRAF3IP1
XPA ERCC6
CHD3 SDCCAG3
DNM1 MYO1E
TFEB TFE3
MCM3 CDC5L
BACE1 NCSTN
UBE2K RNF2
ESR1 RXRA
HLA-A MAGEA1
ZEB2 COPS6
YWHAZ HNRNPU
PRKDC PRKCD
UBE2N PRKAB1
FZR1 TPX2
FYN BCL3
GRM1 HOMER2
BRCA1 CASP3
THRB NCOA6
MAP3K3 C14ORF166
ATN1 RUNX1T1

SMARCA1 H3F3B
WBP4 SF1
CIDEA UCP1
TPT1 CHFR
UBE2D3 RING1
NEFM NR4A2
MAP3K3 RUVBL2
DNM1 KIAA1377
EIF4A3 SRRM2
CD4 RPS27A
MYST2 PHF17
HLA-A MAGEA4
ELK4 BRCA1
MCM10IKBKG
PDPK1 PRKACA
MCM2 DDA1
GABARAP ANKFY1
ZBTB16TOLLIP
ESD MCC
EGFR EPS8
COPS2 GPS1
NKX3-2RBBP7
GABARAPL1 UBA5
RAB11FIP2 REPS1
SCG5 UBQLN4
PRKCA GNA15
TCF4 GTF3C5
MYST2 CDT1
EIF2S3 IKBKE
KIAA1967 GSTK1
CBL VAV2
SPI1 TBP
DYNLL2 GPHN
NFKBIA SUMO1
NFKBIA DYNLL1
PDIA3 TAP1
DVL2 USP5
AMOT MPP7
TRMT11 TP63
SF3A2 C16ORF80

GABARAP PKP4
ATRX HIST1H3J
APP CASP6
NCOR1 ETS2
EIF3I CLEC4G
CCDC85B DUSP13
YWHAZ CENPJ
CDK1 CCNF
TP53 ATR
RELA PIAS3
FDFT1 C1ORF168
HSF1 SIRT1
AVPR2 C1QTNF1
BUB1 EIF4EBP1
PSMD14 TRAF6
BUB1 HDAC1
DVL2 AP2M1
MAGEB2 QRICH2
GABARAP VPS28
AR GTF2F1
AP2A1 TRAF6
TP53 PIN1
GEMIN6 STRAP
HIP1 AP2A1
EIF2B2 EIF2B5
SFPQ HDAC1
COPA DDA1
DAND5 MEF2C
ARF1P1 WBP11
SHPRH LPP
ACTA1 PCYT1B
HDAC1 NKX3-1
EGFR BMX
HIC1 TCF7L2
MAPK14 DUSP16
TFF1 PTRF
EP300 KLF13
LAMA2DAG1
EPOR MST1R
DTNB BEGAIN

CSN2 UBE2I
GFER BNIPL
ATG12 DDX58
MAP3K10 LARP6
ATN1 RNF31
EGFR ZAP70
PPFIBP2 DTNB
NAA38 MTHFR
EGFR SYK
KCNH4 BRCA1
STAT1 MTOR
DEGS1 RADIL
MAPK8 FADD
RPS6KA1 CARHSP1
MYCBP2 USP11
THRB TRIP12
ACTL6A INGX
ATG12 SUN2
HOXB3 EP300
AP3B1 KIF3A
E2F3 CCNA2
SLC9A3R1 P2RY1
AGRN APP
ITGA2 COL8A1
IMMT SDHAF2
STATH MUC5B
MAPK6 CEP110
SFPQ PIN1
MYD88 TLR7
NR3C1 ALDH5A1
DCX CDK5
MED9 MED13
PLSCR1HOXB6
LCK SKAP1
RASSF5RASSF4
ZNF512B FAM129B
CSF2 CSF2RB
BRD4 CDK8
WNT4 SFRP1
ACTA1 FHOD1

SRSF1 TNPO3
ABI1 BAIAP2
EIF1B RPL22
YWHAB ZNF395
PRKAR1A UBE2I
SKIL SMAD4
PPBP CSNK2A1
RBP1 HDAC1
MAFG PAX6
TFCP2 HECTD1
SKP2 FZR1
YWHAH KCNK9
SHBG PSTPIP2
HDAC1 ZFPM2
USF2 WNK1
ACVR1 NKIRAS1
APC WNK1
RASGRF1 PPP1R9B
PSMD6 PSMD13
CCR5 PTK2
DDX17 WBP11
YWHAH PARD6A
ACVRL1 SNX6
MAP4K4 KRT18
MAP2K1 TRAF6
LIMS2 HIPK3
MSN RHOA
CAPZA2 CAPZA3
FYN CDH1
EEF1D MAPK6
S100A4 ACTA1
PHB USP9X
EPB49 PTOV1
NFASC CNTNAP1
IAPP PDX1
AXIN1 DAXX
UBA52 MAP3K3
PRKCB CHAT
UBE2M UBA3
ABL1 YWHAH

TGFB1 SMAD3
BACH1 BARD1
FLNC USP25
CPE POLDIP2
FAM107A KRTAP4-12
AP2A1 RNPS1
CAV1 TRAF6
SPOP BMI1
FOS GTF2F2
DLG4 LRFN1
HNRNPC CNBP
BCAR3 NOSIP
PEX7 PEX5
PIK3CAPIK3R3
GDI2 RAB11A
MASP1 FCN2
HAP1 MRPS9
DYNLL1 BCL2L1
MAPK9 MAPK8IP1
GDF5 CHRDL2
CCDC88A PRKAB1
CFLAR MAP2K4
CSNK2A1 FKBP3
CUL2 DLG3
MAPK14 SCN8A
RBL1 DHX30
GRIN2D INA
RB1 PHB
GXYLT1 TRAF6
CXCR3 CCL11
ARNT NPAS4
C1ORF190 THAP7
HTN3 MUC7
MID1 NFYC
PPP2R1A HUNK
TUBB4 TRAF2
SRC CCND1
CSNK2B RNPS1
CDK1 PCNA
FAM178A OPTN

H2AFX TDP1
EXOSC6 RAB3GAP2
PRKAR1B WNK1
C5ORF13 IGSF21
IKBKAP HTT
CBX7 PCGF6
GSK3A LRSAM1
ACTB STAG1
LYL1 LMO2
HIST1H1C CTNNB1
GBAS PGK1
CELF2 GRB2
NPDC1 KRTAP4-12
RAF1 CNKSR1
ARF6 ZNF709
AR CASP3
RIMS1 RAB37
CD2BP2 DCD
BAP1 UBE2O
RGS2 PARK2
PPP1R8 MELK
SRC GJA1
EXOSC10 RUVBL2
CSK SLC6A20
PPP1R2 CDK5
SGTA FTSJ1
MYST2 MCM2
ITK BLNK
C2ORF44 RUVBL1
GEM RNF7
TDP2 UBE2I
TIA1 TOB1
ABLIM1 LDOC1
MBP PRKCA
CASP3 HTT
TPM1 CNN1
MDM4 SMAD4
FLNC RASSF5
IKBKB TUBA3C
FGF7 FGFR3

LGALS4 KIAA1549
RPL5 YWHAZ
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WASL VIPR1
FGR SLAMF1
TCF4 ASCL1
SAP18 YWHAG
PTPRE MAPK1
RAC1 ARHGEF2
ACVR1 RAB6B
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ACTN1 FXN
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ATM TAOK3
PLCG1 AGAP2
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ERC2 PPFIA3
CCL5 CCR3
SORBS3 ADAMTSL4
LHX3 IFT172
PSMF1 DVL3
CCL5 CCR4
PLSCR1BACE1
UBE2E2 RNF14
FLOT1 SORBS2
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KIF1B STARD13
PPP1R12A IL16
POU1F1CREBBP
PDGFRB SRC
SMAD1 FBXL12

CSNK2A1 HSF1
HSPA4 SERP1
CACNA1B RIMS1
SMAD3 E2F4
PTPRN2 UBQLN4
CDK2 COIL
TBL3 USP11
CDK4 SETDB1
HNRNPA1 HNRNPM
TCEAL1 FEM1C
LNK2 UBE2T
SNRPD3 WDR77
NOTCH2NL UBQLN4
GLI2 SUFU
RBX1 DDB1
EIF4G1 PRKAB1
HGS SMAD3
ATF2 MRE11A
CDK4 PPP2R1B
CUL1 ZC3HC1
CCT7 STK24
NUP153 SENP2
UMPS PAXIP1
IKBKB CSF2RA
MLLT3 INSL6
MCM5 YWHAG
MTA2 ESR1
TFAP2B CITED4
CAPS KIAA1549
KCNK3 YWHAG
TNIP1 TTF2
GRB2 KIAA0430
PLAU SERPINA5
MAPK8 MAP3K1
MYC CPSF1
N4BP2 TOLLIP
EIF3D SRC
ERBB2 SHC2
EP300 SIRT1
ZNF354A DYNLL1

GRB2 AGER
LRPAP1 LRP1B
PPP2R2A STRN3
APLP1 TOE1
CDKN2A ATG5
SNX3 SRC
SIRT2 KRT78
NECAB2 LNX1
YAP1 DENND3
HBP1 EWSR1
UBE2I RAD54B
LAMA1 ITGA1
NONO SMARCC1
USP8 RNF128
HMGB1 RELA
BMPR1B PPP2CA
MEIS1 PKNOX1
IL7R STAT5B
SAFB2 GABARAPL1
MMP2 COL18A1
JAK1 IL4R
ALDOA OSBPL10
BCOR KDM2B
GPRIN2 TRIP13
EIF2B1 PDIA4
PAICS NIF3L1
DDX27 PPP1R16A
CHRN1 COPS6
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RAP1A RALGDS
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RAE1 ARMC8
CYBA NCF2
PRKCSH CANX
GRB2 MAP4K5
GFI1B BEND5
GRN CRKL
CFTR CANX
SPRY3 TESK1
PDCD6IP MAP1LC3C

MAP2K7 MAPK9
SSR1 UTP14A
MAP2K7 MAPK8
AR IDE
HRAS ABL2
TP53 SETD2
PINX1 MCRS1
CAV2 CAV1
TCF21 GTF3C5
PPP1R3D YWHAZ
PSMD12 TRAF6
CAPN1 ACTN2
ERG FLI1
DOM3Z XRN1
PLAU SERPINB2
PLAU SERPINE1
MDM2 PTK2
FOSB CREBBP
ACTN1 PKN1
CFDP1 EWSR1
PRKCB SDC2
TP53 CHD8
RFC1 MLH1
ITGB3BP USP33
MEF2C GOLGA2
CCDC22 CPNE4
SF3A1 MAP1LC3C
IGF1R PTPN1
GC INSL6
PPP2CB STRN3
FSTL3 ADAM8
FADD RALBP1
WIZ CTBP1
TP63 EIF2C1
TSPAN4 CD81
PIK3R1 BRCA1
BACH1 PARK2
PUM1 CNOT8
TCP1 CCT6A
SIVA1 S1PR4

DNM2 SH3BP4
NUP214NUP107
WDR33 SH3GL3
BAI2 LRP2BP
PRC1 DAXX
IFNAR1IFNAR2
GRB2 SNX17
SUPT5H SUPT4H1
EIF3G EIF3A
FAS FASLG
MYC ACP2
TP53 PRKCA
LRRN1 RBBP6
SCN5A DLG3
FOS TBP
RABGGTB RAB1A
HDAC3 HSPA4
SKI SMAD3
FYN FASLG
PTPN13MKNK1
PIAS4 COLEC11
PAFAH1B1 TUBA1A
CENPA WTAP
MBD4 SIN3A
SMC6 ALK
POLR1A TAF13
ZMYND11 EZH1
ATXN1 R3HDM2
RRAS2 ARHGEF2
USP49 MED17
CDK5 AATK
HNRNPM IKBKE
ETS1 C17ORF62
RXRA TBP
KIAA1967 NEK6
RBX1 ABTB2
CFL1 ROCK1
CDC42 FILIP1
GH1 U2AF2
VAV2 SNW1

WT1 UBE2I
GADD45G PPARA
VHL CYCS
MUC2 GALNT14
CEBPB STAT6
HSPA1B NOD1
CEBPB STAT5A
VHL LSM12
CXCL10 CCR3
HSPB3 NELF
SRY SLC9A3R2
SMAD1 ZDHHC3
FN1 LTBP1
UBE2I MAP3K1
NFYB CNTN2
RPS6KA2 PSD3
TRIM23BAG1
OGT HCFC1
RAC1 MCF2L
IKBKE IRF3
CEP72 SPATA2
NCOR1 EMD
CD82 CANX
ZNF232 NR2E3
TFAP2A DEK
MLL2 PAXIP1
ZNF335 ASH2L
CTNNA1 TJP2
DEGS1 SLC16A1
HSPA4 RPS27A
SMARCA4 RAP1A
TRPC1 ITPR1
GPX4 OTUD5
STAT1 STAT5A
SLC24A1 NCK1
ATN1 MAP7D1
CTNNB1 NF2
UNC119 LAMA4
CORO2A TBL1XR1
TXK LCP2

AKAP4 FSIP1
MB PSMD4
SIN3B ARID4A
PRKACA HDAC1
CSTA LOR
ADRB2 KCNJ9
DVL1 CSNK2A1
FURIN SERPINB8
MLH1 RAD23B
JAK2 CTLA4
PAK1 PCM1
IL12B IL12RB2
NBL1 UBQLN1
ADAMTSL4 NTN4
MAPK8 GATAD2B
RPA3 ERCC6L
MNAT1 MTA1
HSP90AB1 PTK2
NOS2 CAV1
THRA LGALS12
YES1 OCLN
USP36 ANKRD33
VAV1 EPOR
SNRPB GEMIN7
NR4A2 SIN3A
BLM PAXIP1
IVL DSPP
PRKACA KCNQ1
ACTA1 DTNA
HIST1H4I NCOA3
UBE2G2 RNF146
SOCS3 PIN1
PTPN6 NOS1
SMAD7 SOX5
SUMO2 RERE
ATN1 NELL1
SERPINA5 THBD
MED14 MED28
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GRB2 SLC6A20

FBL PSMB6
CUL1 NFKBIB
GRB2 ACAP1
YWHAZ KLC3
PTPN13 PDCD10
CASP9 MAP2K1
HLA-B MARS
TAB2 RUVBL1
MYCBP2 PAK1
GRIN2D CRK
SEC22BSTX5
CCNK PIN1
FYN WASF1
NFIB RFX1
ABL1 RIMS1
VAV2 MED21
GABARAP DYX1C1
CREB3 CCR1
SIN3A MNT
GRB2 PRKAB1
VIM COPS6
ITGB2 ICAM4
RPL11 NFKB2
CTNNB1 CSNK2B
SERPING1 C1S
PMS1 NONO
TUBA4A ASCL2
EIF4A3 YWHAZ
LAMA4 COPS6
PCNA ERCC5
PEX5 ATM
CD58 HERPUD1
KIT GRB10
EFNA5 EPHA7
MAGI3 DSCAML1
IRF1 SMARCA4
EGFR ANXA1
FURIN DDX56
COL6A3 PLCG1
INSR STAT5A

FBP1 C14ORF135
COPS5 KLHL9
DAND5 TBX21
PSME3 BBS2
EGF ADRBK1
ANKRD17 BAP1
JAK2 PRLR
JAK2 TSHR
EGFR ALDOA
FBLN2 HSPG2
KHDRBS1 RAPSN
BCL9 PYGO2
GATA1 ZBTB16
TSPAN4 CLDN11
CUL1 CAND1
SMYD1 HDAC2
EIF3E EIF4ENIF1
S100B PGM1
GRB2 PYGO1
SGK1 EIF3I
CDK2 FOXM1
CBX4 SUV39H1
XRCC2 BLM
VHL ATXN2
CEBPG CREB3L3
IKBKE LAGE3
STRN MOBKL3
USP15 MYH4
SUMO2 RCOR3
SFN LMO7
DYNC1H1 C20ORF24
XPNPEP1 DISC1
MED13L MED13
BCAR3 KIF5B
NPY GHRL
UBA1 TSSC4
TAB2 RUVBL2
NEFL TSC1
MYOG ID2
TRIM24TAF1B

HSPA4 IKBKG
ANKRD12 MKNK1
CARS PACSIN2
IRF1 RELA
GSK3B PPARGC1A
EMD SYNE1
DDX17 SRA1
AP2B1 MEA1
PDPK1 SRC
NDEL1 MRC2
RAP1GAP2 WNK1
MAP1B ACTB
CHRM3 MDM2
GTF2I PHF21A
HR HDAC2
GORASP2 NQO2
SKAP2 PRAM1
FBL MYO1A
NOL3 ETNK2
MLH1 FAN1
ACTB CPNE1
SNAP23NAPA
FBXW7 LINGO1
ORC2 CDC6
TK2 INSL6
COPS5 KLHL13
ERBB2 MUC4
RB1 RFC1
MCF2 RDX
PTP4A3 GEMIN4
NCOA3 CARM1
CTNNA1 RNF219
TUBB YWHAB
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TBX3 HDAC5
GRB2 KIF3A
CASP7 PTGES3
SERPINA5 KLK3
BRIX1 CDC42BPB
GAS2 ACTA1

SPI1 ATF1
TOB1 SETDB1
USP19 HMOX2
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POMC VTN
KBTBD7 TMEM160
EIF2AK2 PTGES3
AURKANUF2
H2AFZ ACTR6
NFKBIA HSPA1L
NFKBIA HSPA4
PARP1 IMMT
DST COL17A1
SNCA ADAP2
PABPC1 PAIP1
IGF1R CSK
OXSR1 SMURF1
MAPK1 DUSP6
MAPK1 DUSP7
ARHGDI1 ST3GAL4
STAT1 TRADD
CDC7 ORC5
NR3C1 MSX2
PRKCA GRM7
SYN1 PAK2
HNRNPA2B1 MAPK6
TGFB2 SNX6
WAS NCKIPSD
CYP3A4 AMFR
SNIP1 ZNF451
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ERBB4 YAP1
NCK1 CSNK1G2
PRMT5 ZNF224
ZW10 RINT1
HCFC1 HDAC2
IKBKAP CDKN2B
TCERG1 SF1
FYN SH3BP2
MXD1 SIN3A

SLC9A3R1 YAP1
VEGFA GPC1
NFATC1 SPI1
USP12 WDR48
SYN1 PAK1
PARN SUMO2
RPS27ARB
FADD MOBKL3
MUM1 BATF
SACS TSC22D4
FYN PRKCH
NCK1 CNTNAP1
CDK1 VIM
APC LNX1
SOS2 MAGI2
APC NAV2
APC NAV3
UBE2L6 TRIM27
FYN CYP4F2
ZNF512B VPS35
SNAP29EHD1
CCNE1 RBL1
LNPEP FHOD1
TUBG1 PIK3R1
MIP GJA8
SHC1 MST1R
ABI1 EPS8L2
APC2 ANAPC1
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YWHAQ EDC3
CCNA2 CALM2
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CSN1S1 STK4
PSMA4 TRAF6
NTF3 NTRK3
PPP6C PPP6R1
HTRA3 MLH1
PCBP3 RUVBL1
APC NOSTRIN
WAS ITSN2

PDHB MCC
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USP15 LSM4
FYN RPP38
AP2A1 RIT1
CLTC LDLRAP1
STAT1 TMF1
STAT3 NMI
NUP98 EP300
CCR7 CCL19
ZNF165 EWSR1
CPSF4 FIP1L1
UBE2U MUL1
NUP62 HSF2
ACTA1 TLN1
ITM2C RNF7
ORC3 CD8A
ORC3 CD4
FYN DLG4
FYN CNTNAP1
VARS TNFRSF10D
PSTPIP1 DNM2
PVR CD226
ILK PARVA
EZR TSC1
DAND5 NCL
NEB CAPZA1
EIF2AK2 PPP2R5A
MAP3K7 MAVS
USP11 RELB
NCOR1 DAND5
RPF1 CBLB
NUP62 XPO6
PHF17 ING5
TRIM22RERE
GTF2F2 TCEA1
S100A1 ACTA1
CTSB ADAMTSL4
PLG RUVBL1

EXOSC10 LSM2
PRKCA PLCB1
CALCOCO2 PEF1
GRB2 RNF10
IRS4 CRK
IRS4 CRKL
PCNT PSMD4
ASAP2 SREBF2
HSP90AA1 GNA12
CDC20 ANAPC7
CSNK2A2 CTDP1
G3BP2 ING4
EEF1A1 TOPORS
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RPS14 SMYD2
PCBD1 ARX
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LRRC7 CNKSR2
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NFKB1 IRF9
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C2ORF44 MED31
SMAD3 SRY
PCBP3 RUVBL2
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GPRIN2 YWHAE
PIK3CASQSTM1
EYA3 SIX4
SRRM1 NCOA5
IRS1 BCL2L1
EEF1A1 UBQLN4
IGF2R TRAF6

FES IL4R
AGT GRB2
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TNFSF14 LTBR
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PSMB1 DSTYK
PCP2 COL7A1
PTPRZ1 ALK
CALCOCO2 APEX2
PIK3CA ATR
HERPUD1 UBQLN4
VIM ZNF384
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CUBN GC
KHDRBS3 CCDC33
DDIT3 CSNK2A1
GPS1 COPS3
FLG PCSK6
EIF2S2 EIF5
FANCA TAF10
POLR1A NFKBIB
KCNQ3 KCNQ2
CKMT2 INSL6
NCK1 RPP38
PLK1 IKBKG
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TMPO SUMO2
APC PUM2
PPFIA1 PTPRS
MYCBP2 WNK1
RHOG ARHGDIG
FAM175B SMURF2
PLEKHA5 MACF1
NSF EIF3E
BCL2L1BIK
CTNNB1 ANP32A
PRKAB2 PRKAB1
ATP5C1GDPD2
LIMK1 RPS27A
MAX SETX
RAP2B RALGDS
CUBN ALB
STAT5A NCOR2
PPP4R1 DISC1
EXOSC10 DIS3
LMX1B SSBP3

MYC HSP90AB1
PGR STAT5B
SGOL1 LRRC59
PLK1 MAGED1
POLR2E POLR1E
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PML HDAC1
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WBP4 HNRNPK
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DCTN1 DST
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CDC25B YWHAH
PINX1 BVES
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MOCS3 EXOSC6
PRPF6 SMARCA2
MED30 EHMT2
BAX BCL2L2
PRKCA PDLIM7
HSPA5 APC
CC2D1A CHMP4C
COPS6 FBXO17
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ABL1 NFKBIA
ICAM1 SPN
TP53 PML
NFASC SCN3B
PIK3CADGKZ
CPE MED31
DGKE NUF2
APC FBXO30
SRPK1 IKBKG
PTPRC TYK2
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KLF10 SIN3A

TLR4 IRAK1
STAM2 UBQLN4
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HNF4A MED23
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SIKE1 PDCD10
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PIGH PIGQ
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EIF3A SS18
DNAJB2 RPS27A
HDAC3 NFKB1
TTC19 UPF3B
TRPC1 ITPR2
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TJP1 GJA3
TRPC1 ITPR3
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XPOT CLN3
HIST1H3J ASH2L
NQO2 RHOB
RTCD1 HLA-B
SMAD1 BTBD2
LSM6 USP4
ZRANB2 TRA2B
CAPN1 GRIN2B
MDM2 TUBB2A
FXD3 NR4A1
UBE2U TRIM46
HNRNP3 GSTK1
ATRX SMC1A
PTPN6 SOS1
NBN MSH6
REL TNIP2
IRAK1 BTK
ITGB7 AIDA
IGF2 IGFBP3
TGFB1 PPP3CC
KLF6 NUFIP1

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PLK1 GTF3C3
MCC NASP
NCK1 WASF1
CFTR EZR
ZZEF1 HSPB3
NXPH1 NRXN1
EWSR1 PTK2B
PRMT5 SMARCE1
CDC42 FGD1
PKIG KPTN
SKIL PAPP
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KIAA0415 YWHAB
PTPN6 TYK2
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CAV1 NEDD8
HLA-C B2M
CAV1 GRK1
COIL TCEB3B
CD8A CD3D
CACNA1F CABP4
GSTZ1 NCK1
BCL2L1MCL1
PTPRS FEZ1
RIPK1 RNF216
AMPH CABIN1
RPS19 IKBKE
PLP2 PRKAB1
RASSF7CHMP1B
APC BCL2L1
PML TDG
CDC27 MAD2L2
RUNDC3A AP1M1
VIM MICAL1
ITSN1 SMARCC2
TDG SERBP1

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PDGFB HSPG2
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COL11A1 DDR1
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TAF1A TAF1D
PRKCA PEBP1
SMARCB1 CARM1
PIK3CG USP45
TMEM33 IKBKE
ETV1 MAPK14
STK25 MOBKL3
SMAD2 POU2AF1
TAF6 SMARCC2
GLI3 SMAD3
GRB2 GSTK1
APIG1 CLTC
KDM6A MLL3
C4BPA BMPR2
ATN1 GCC1
MYO10 FBXW11
CSK PTPN22
USP7 TRAF4
STRN MOBKL3
GSTM4 ZBTB16
FYN ACP1
TP73 RPS27A
RALBP1 HOOK2
CRADDFAM190B
FOS SUPT6H
TLR1 DHX36
GRB2 PTPN22
CCT2 MOBKL3
TSPAN4 CD9
UBE2A UBR4
NYNRIN AGTPBP1
FGG VTN
HMGN3 SMAD2

GRB2 POLR1D
ACTB HNRNPAB
CEP110 DAXX
FAM190B NDEL1
RAB3A RIMS1
H2AFJ WDR77
PLG TFPI2
PPM1D MDM2
GAST CCKBR
MRAS MLLT4
DPM1 TNFRSF14
PRKCD PLSCR3
EXOSC10 EXOSC1
CASC3 UPF3B
PSMA7 PSMA3
PSMA7 PSMA4
JAK2 NCK1
HDAC4 TNFRSF14
APC SIAH1
UBE2U TRIM63
LRAT RBP1
SMAD9 CTR9
SNRPD1 LSM10
PHGDH MEPCE
CREB1 TSSK4
PFKFB2YWHAG
NFKBIE PPP6C
SIX1 DACH1
SRC EP300
KNG1 PLAUR
VHL RNF139
UBE2D1 TOPORS
ELANE SDC1
PAFAH1B3 COPS6
UNC119 HMGB1
CSDE1 PIK3R1
KHDRBS1 PTK6
SLC9A3R1 TRPC5
AQP4 AP2M1
YWHAQ MLLT4

PLCG1 LRIG3
PAFAH1B3 CHMP7
LGALS3 SUFU
ATF3 BATF3
RHOA FADD
PIK3R3 MBIP
BCAS2 ESR1
MED24 MED10
FOS SBF2
TUBB SIRT2
IGF2R EEA1
RARA NR4A2
PNPT1 TRAF6
ABL1 CDK5
BAG4 APOBEC1
CASK KCNJ12
EDN1 UBQLN4
KIAA0182 HDAC2
CIC SETD2
S100A8 ASB3
MED7 HNF4A
ENO1 HDAC1
HSPA4 CDC73
RRAD YWHAZ
CEP290 PRKCH
PSMB9 PSMB7
GATA1 MED17
CENPB NR4A1
SLC9A3R1 LHCGR
VHL UBE2L3
ESRRB NCOA2
GRB2 THRAP3
CKS2 TSC22D4
TCERG1 NPM1
SIVA1 GRINL1A
PDGFRB SHC1
SGCG FLNC
PDGFRB PTPN6
EWSR1 ITCH
TERT CIB1

ARIH2 EML4
XRCC2 RAD51
RPS29 EIF4A2
SYK HNRNPU
CD81 RBBP6
CEBPD HDAC4
ARPC2 PHF5A
BIN1 REPS2
CALCOCO2 CPNE7
F8 CALR
HLA-B TRMT112
ERBB2 IL6ST
NANOS3 TXNDC11
RPS23 MAP3K14
NR4A1 MED1
RGS3 YWHAZ
ARPC2 CDH1
KLF1 HDAC1
ESR1 AHR
SPI1 FUS
SGCG SSPN
AP3B1 ARF6
PRDX1 IRF3
SFN PARD3B
PACSIN1 TRPV4
ITPKA CALM2
CD4 PIP
SPN CTNNB1
TBP HTT
COPS2 CUL2
OTX1 CHIC2
SFN PARD3
COPS2 CUL1
COPS2 CUL4A
GGN OAZ3
CTBS FNBP1
RAD23A MAST1
SCUBE3 SCUBE1
NR3C1 DAP3
RNPS1 GEMIN4

FSHR ADRBK1
LYL1 TAL1
CRMP1 FUBP1
HNRNPM TNPO1
ARRB2 STK38
UBE2D2 TRIM25
MYB SP100
CDK2 CHAF1B
CDK2 CHAF1A
BCAS2 BLK
CDC42 EIF4G2
SFN SHROOM3
LMNA URB2
LGALS4 KIAA1549
ECHS1 ATG5
UBC NFKBIA
MAPK8 MAPK8IP1
ATXN2 RAPGEF2
PABPC1 SREK1
EP300 JMY
LAPTM5 HERC1
PIR NFKBIA
SNCA GRK1
FANCA HSP90B1
SLC11A2 NDFIP2
RGS16 GNAQ
NR3C1 PTGES3
NF2 RALGDS
HIST1H2BK CHD1L
INSL6 NRBP1
DAND5 PER3
MYB ZMYND11
FLNA STAT1
VIP VIPR2
PLK1 ANKRD44
CDK8 TRRAP
SAFB2 MAP1LC3C
EWSR1 TONSL
USP13 CYLD
PGK1 HSPH1

C1QC PTX3
SRC GNB2L1
PHKG2 PHKG1
ERBB2 TLN1
FN1 AMBP
GRIK5 DLG3
EXOSC8 UPF2
HTATSF1 SUPT4H1
PRAF2 RHOB
TRPC3 TRPC7
MYBBP1A LYAR
HSPA5 SUMO4
ARID4A SIN3A
NEDD8 ATG5
SRPRB MAGED1
PRKAR2A GNA13
YWHAQ SSH1
CDH1 FER
RPA3 MCM2
TSSK2 TSKS
SMAD9 UBQLN1
MAP2K3 MAPK12
RNPS1 C19ORF29
TGM2 HIST1H2BG
RNF111 UBE2W
SAP130 INGX
GRIK5 MLF1
TOR1A DHCR7
CAMK1HDAC9
SNX2 PDGFRB
RUNX1T1 ABI3
PRKCI MAP1LC3A
C19ORF12 IKBKG
AP2A1 L1CAM
JAK2 PPIA
RAMP2 CALCA
AGR2 POM121
SERINC3 XPO5
AR ETS1
C1QB C1QC

IKZF1 SMARCE1
SRRM1 SMARCC2
NSUN4 EWSR1
CBL SPRY4
GRB2 SIGLEC7
VBP1 MAP3K3
CD3D HERPUD1
VAMP7 SNAP25
CEP110 CEP97
BCL6 MTA3
CD22 INPP5D
XRCC5 WRN
KDELR1 ARFGAP1
ARF1P1 ARFGAP1
EIF2S2 EIF2B4
SMAD3 JPH3
SHOX2 TRIM29
SRC BMX
GTF2I OTUB2
NFKB1 NFKB2
SH3BP4 GIPC1
MSX1 SUMO1
FHL3 MED15
TROAP BYSL
XRCC6 TCF7L2
PCNA CDT1
PSMD1 BAG1
MED1 ESR2
MAPK9 TRAF2
HAX1 IL1A
LAMA5 SMAD2
GRB2 DLGAP4
ACTA1 KLHL20
YWHAE TAF7
CTNND1 EGFR
SUV39H1 RARA
SRF CREBBP
CDK9 CUL1
EIF3F UBC
CKM MYOM2

SS18L1 MED30
HSP90AA1 TRAF2
KCNMB1 CLCA1
AGT DNPEP
EDC4 DCP2
WBP4 EWSR1
GRB2 CDR2L
PCNA CCND1
DHX15 PIN1
LGALS3BP IKBKE
NEDD8 DDB1
BIRC2 ADRM1
NCK1 PAX7
WDR5 MYST3
RAB3GAP1 FEZ1
A2M SHBG
FYN ITCH
MAPK1 SREBF2
KIAA0182 CEP63
RGS20 MLF2
IGF1R RASA1
FAT1 HDAC6
PRMT5 YWHAQ
CHD7 NLK
STRN TRAF3IP3
ARNTL NPAS2
PPP4C CCDC6
PIAS1 MBD1
THY1 ITGAV
VHL PFDN5
NCK1 PAX3
CFH GRB2
ARF1P1 CYTH1
GRB2 ERBB4
SLC1A2JUB
DZIP3 AKTIP
SNRPB2 SRRM1
SUMO2 SENP1
PRKACA PDE3B
TGFA GORASP2

GRB2 PALM2
NUP155 KBTBD7
SLFN11 RPAP1
IDH3A DDA1
MAPK9 NFATC3
LSM2 USP15
KEAP1 TMEM160
CSN2 CELA1
RANBP9 HIPK2
PARP1 CHD1L
EYA3 DACH1
KRT20 CCDC85B
VEGFA SEMA3F
STAT1 GSTK1
COIL ZNF277
MLH1 FBXO32
DBN1 RIPK3
MEF2D RBBP5
SIRPA CD47
GNL3 PHLDA3
SFN SAMD4A
CCNT1 HIC2
CDC7 MCM3
SRSF2 SRRM1
RPAP2 INTS1
TTF2 TACC3
PTGIR GNAQ
DDX1 SRRM2
PPP1CAMAP3K3
CDK1 STMN2
GRB2 C16ORF7
PRNP HSPD1
PPP2R5C CCNG2
HSPA5 DNAJB11
ATM DDX1
CD4 BTRC
KIF5B TNFRSF10D
DNAJB6 TP53
FADD PEA15
UBE2D3 RNF185

MAPK8 NFATC2
POLA1 CDK2
ATG12 ATG7
SMURF2 PARD6A
CATSPER1 CHIC2
LAMP1 AP1M1
PRPF3 USP15
RELA KDM2A
MDFI THEG
TNFSF14 LTB
IL33 HIST1H2AL
F8 CANX
FIGF KDR
KIF5B CDC5L
BCL6 HDAC5
RPL10 MAP3K14
HSP90AB1 DDX24
GPS1 CARD11
HLA-B SRP68
FLNA CALCR
ATN1 ZNF608
MYBL2 LIN9
UBE2I MKRN3
TJP1 F11R
GIPC1 SDC4
ZNF521 LYST
STAU1 PPP1R7
MID1IP1 SUFU
TCF4 NEUROD1
SNAP29AP2A1
RPL31 PINX1
CCT7 RIPK3
LMNA MAX
PGR NR0B1
YWHAG LARP1
SFN SRRM2
SMAD3 CITED2
SMAD1 EWSR1
PLCG1 DOK1
SREBF2KPNB1

NRD1 BTRC
PTH MEP1A
SKIV2L XRN1
FXR2 CCDC85B
MYC PIM1
POU2F1PRKDC
ATP2B4PPP3CA
ABHD16A MLH1
CUL5 COPS8
RHOQ COPG
ATF2 ATF3
MAPK8 IRAK1
HBXIP INSL6
SMAP2 IKBKE
GNG11 ZHX1
HIST1H1D EP300
STAM2 EGFR
CSNK1D DVL3
LSM6 LSM7
MLH1 NT5C3L
PPP1CAKIF13A
PRKACB PITX2
SAP30 HTT
GOLT1A TNIK
SLC25A6 STRN4
RTN3 PLEKHF2
TOM1 ZNF512B
ABL1 RYBP
PTK2B RB1CC1
BRD4 PIK3R1
GABARAP KBTBD7
BEND7 NIF3L1
MET DNAJA3
PCNA INGX
RARG RXRG
CDC25C LZTS1
FAR1 SMYD3
FTH1 CRMP1
CHRNA1 CHRNE
PLSCR1NPDC1

STAT1 FRMD4B
MCC CSNK1E
TP53 DAND5
AP1B1 SMAD2
HCN1 HCN2
MAX C11ORF63
MAPK1 GORASP2
GRB2 PTPRK
TYK2 STAT2
ZFYVE9 PML
PTPRB CDH5
AGR2 MUC2
COPS2 COPS5
WDR5 HIST1H3J
THRA NCOR2
C1QBP HNRNPD
PRKACA KLF1
MEN1 TP53
TGFB1 FNTA
MET CTTN
PPARGC1B FOXA2
MED26 SREBF1
MYC FGFR1
SNAPIN PRKACA
NEDD8 ARX
CPE RAPGEF2
PRKCSH RGS2
MED26 POLR2I
ULK1 GABARAP
HGS MAT2A
ZBED1 SPEF1
EIF3J EIF3B
STAT5A ERBB4
ACTN1 GRB2
LYN DOK3
POLR2E POLR2K
GNAI3 CD59
SMAD3 MAPK14
YWHAB RADIL
SF3B1 BAZ1B

TBL1X THRB
MEAF6 ING4
KCNJ4 DLG2
MECP2 PRPF40B
CUL1 NEDD8
LCK PTPN22
TPST1 CCR1
PLCG1 BLNK
PRSS1 PTPN4
PLSCR1PRKCD
CHEK2 PLK3
ZMYND11 EP400
ST7 MYOT
LAMA1MEP1A
PSPH IGF2BP1
OFD1 FAM190B
USH2A KRT18
TJP1 CLDN16
RAE1 POLR3H
HOXA5 ZNF408
PRKCSH ELF3
HRAS PDGFB
MYC TOP1
CDK4 CDKN2A
SCGB3A2 MARCO
CDK4 CDKN2C
MDM2 HDAC1
CDK4 CDKN2B
GAS7 NCKAP1L
HSP90AA1 FANCC
MET SHC1
DLG2 FZD1
USF1 ASH2L
MEF2C SRFBP1
OGT YES1
PSMD6 TNIK
POLR2E POLR2L
RELA RUVBL2
WDR5 NCOA6
FURIN MMP14

TLE1 RPA2
SYN1 PIK3R1
RBPJ SND1
EEF1A1NEU1
UBE2U RNF144B
MTNR1A TMEM33
SLN ATP2A2
STX7 VAMP8
MCM3 CDC6
GAB2 TNFRSF11A
SUB1 POU2AF1
TLX3 PQBP1
KCNJ12MPP6
HOXC9 ELAVL2
CD5 CAMK2D
CTNNA1 DGKD
IFNAR2EP300
CALCOCO2 DAXX
PFKFB2AKT1
TNNI2 TNNC1
HLA-B SEC63
FES EZR
CLEC4G WBP2
KRR1 USP33
CDK5 MAP2K1
WASL PTPN2
ERC2 PPFIA4
GDI2 ARF6
ERC2 PPFIA2
RIOK3 RUVBL2
CTNNA1 CA9
PABPC1 GSPT2
ELMO1 DOCK2
RELA RUVBL1
LRIG3 NCAPG
SOS1 ABI3
ZSCAN30 ZNF496
PTPRC PKP4
HMGA1HIPK2
FKBP4 ACVR1

CHEK1 HSP90AA1
ACTR2 WASF1
FGB NID1
SYT17 NINL
UBE2D3 OTUB1
GRB2 POMP
MBL2 CALCR
EEF1A2MAP3K3
FGFR4 STAT3
TSN PRKAB1
TRIP4 CREBBP
RPS27AMXD1
XPO1 MAPK6
EP300 ELSBPB1
PRKCB PDLIM7
CCT4 PPP2R2C
PIWIL2 DICER1
MPHOSPH6 C14ORF1
PYGM S100A1
MYB RBBP5
LSP1 ACTG1
SEC61BSERP1
DBC1 SIRT1
SKP1 FBXO25
NUDT21 RXRB
CA2 SLC4A3
EIF3F CSNK2A2
JAK2 GRB2
JAK2 FGFR1
LMOD1 ACTB
FGF7 FGFR4
RALGDS RIN1
DAND5 MYOG
SFN HDAC7
EPRS DUS2L
PRKAR1B SMAD4
SKIL UBE2I
F11 TFPI2
DAND5 MYOD1
OLFM1 DISC1

HIP1 AP2B1
KIT GRAP
CCND1 CDK2
CTCF CHD8
LRRC68 PPP1CA
DLG4 ARHGAP32
PAK2 SH3RF1
HDAC3 RXRA
ATIC RADIL
ATG16L1 CCT7
EIF1B POLR2H
RELA BTRC
GLI2 FBXW11
PACSIN1 PACSIN2
SLC9A3R1 FZD4
UBE2D3 RMND5B
RPP40 BVES
TSNAXIP1 TSNAX
ZBTB16CEP72
EFEMP2 RIBC2
IPO5 MAP1LC3C
UNKL SMARCD2
BRCA1 STAT1
TFAP2A CASP1
KIAA0087 C2ORF18
MOS FYN
DNAJC6 AP2A2
KCNH4 MAP2K3
BRCA1 STAT5A
HIST1H4I MSL3
MAPK3 SREBF2
ABL1 DLGAP2
HSP90AB1 PRKCZ
TRIM24THRA
NID1 HSPG2
MYST2 ZNF165
ERBB3 PA2G4
UBASH3A RPS27A
PAK2 ARHGAP10
ATN1 ZMYND8

LSM2 LSM4
CASC3 STAU1
RAB5A ALS2CL
ZAP70 CRK
TPST2 GPR1
ARF1P1COPG
DES PLEKHA5
DES SMURF2
SGK1 MAPK7
HSPA5 REL
LSM2 LSM5
SNCA CDC42SE1
MYOG ID3
PRKCB PEBP1
MCM2 GTF2B
SYK CSF3R
GRIN2B DLG2
STAT1 LZTR1
DLL1 NOTCH2
RBM39 SF3A2
STX7 VTI1B
DUSP11SRSF9
TFE3 CACYBP
EGFR PITPNA
THRA EMD
TSC22D1 XPO7
SUMO1 PLCL2
TGFBR1 UBXN1
NR4A1 NCOA1
KCNA2 KCNAB2
COL5A1 LGALS3BP
CEP350 APTX
GPC4 ACP5
PRKACA DNAJC5
YWHAQ NRIP1
GNAI3 MTNR1A
MEF2C MLL3
RARA RFC4
MPHOSPH6 ZHX1
PARP1 RELA

GF11B USHBP1
LRP6 ANTXR2
SOCS1 JAK2
GIP GIPR
CEP110 AKAP9
CBX7 USP11
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FAM131A PHYHIP
EP300 NCOA3
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KRT85 USPL1
ASCC2 IGSF9
PIK3CAUFD1L
YWHAH MARK2
HNRNPM TANK
TDP2 SUMO1
TCF4 CDC73
EMD CDC37
MAP1B MAP1LC3B
YWHAG C1ORF114
WDR47 TCEA2
TEAD1 VGLL2
ITGB5 PTK2
MAPK1 TFCP2
ATF7IP MACF1
PARP1 HIF1A
ARAP1 FGFR3
PSMD10 PSMC3
UBE2I ZNF451
MAPK14 MKNK1
TMED10 ARF1P1
NR3C1 CENPB
SRC SYN1
DLG4 GNG13
MYC DAND5
BTBD8 WIPI2
U2AF2 CHIC2
SMARCA4 ARID1B
HOXD10 PBX1
DLGAP1 DLG4

PARP1 NRF1
GRB2 DTX1
RHOA ROCK1
SFPQ TRAF1
SGK3 ITCH
SRFBP1 WNK1
RELA TAF9
CCNB1 RPS27A
FLNC PHLDB2
TBPL1 IRAK4
CDK8 MED31
EWSR1 SCMHI
SDCBP SOX4
MKRN3 UBE2W
PARN C21ORF56
KARS TANK
HSP90AA1 EIF2AK3
IFI35 NMI
HAT1 YWHAZ
INHBA ACVR1B
IL1A IL1RAP
KIT RFC1
HLA-B TRIB3
MMP2 FGFR1
RB1 HMGB1
CCDC85B PKN1
IRS1 KHDRBS1
MMP2 MMP17
LRRC7 CAMK2A
FGF3 EBNA1BP2
AURKANIN
OPRL1 RGS19
TRIP4 ESR2
IFNAR1 IFNA8
EIF2AK2 PRKRIP1
CTNNB1 PTPRO
SLX4 MUS81
FABP1 PPARG
SRC PRKACA
NCL ARRB2

SUV39H1 RUNX1
COL1A2 TGFBI
C1QBP TAB2
PTK2B NEDD9
ARHGDIB RHOA
MAPK8 HDAC1
GADD45G CDKN1A
UBL4A NPLOC4
CDK4 CCND3
PDGFRB ADRBK1
ITGB1BP1 LRP8
RPF1 GRB10
SSBP2 EWSR1
CDK8 THRAP3
ZNF225 EP300
PIK3R1 DTNBP1
COL3A1 SPARC
EDN1 BAG6
GH1 ECHS1
MAPK3 LRPAP1
WEE1 CSNK2A1
CRYAB PSMD4
VEGFA FLT1
NFKB1 TSC22D3
SLC7A9SREK1
DDB1 DDA1
EWSR1 RMND5B
FCHSD2 HSP90AB1
PRNP CLU
TRAF2 KIAA1267
NCOR1 DHX30
NR3C1 ZBTB3
TMBIM6 BCL2L1
DZIP3 UBE2Z
KIF5B KTN1
APP PPID
EPS15 SH3BP4
SFN TNS4
NPY MEP1B
PPP2CBIKBKE

SKIL CDC16
SPTB DAXX
AURKAPML
PLSCR1PLSCR4
SFN TBL3
SMAD1 RAB34
CSNK1A1 ACTB
CCR10 CCL28
HSP90AA1 HSF1
CRB1 PSMD13
RAB7A RAB22A
ERBB2 PTPN22
GLI1 DYRK1A
RPA2 EEF1A1
HDAC3 BCOR
ALDOAPSMD4
ELAVL1 ANP32B
PSMD12 UCHL5
MAP2 MYO7A
SFN ARHGAP32
AR POU2F1
EIF3H ABCE1
RAB11A STX4
EGFL6 SH3GL2
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TNP1 PRKACB
CSNK2A2 UBE2R2
SMAD4 CNKSR1
EGFL6 SH3GL3
CDK8 MED16
NUP155DMWD
HOXB2 CREBBP
MC3R MRAP
CDC42EP2 SNCA
BACE1 ITM2C
APC KHDRBS1
ATXN1 RAD54L2
TAF13 TAF8
BAHD1 BEGAIN
PSMD11 EEF1A1

SFN ARHGEF5
TTN P2RY12
NR1H2 NR0B2
VCAN CXCL12
SMAD9 UBA6
PRMT1 SH3GL1
PEBP1 TRAF6
RBL1 CD320
CCNT1 MDFIC
ESR1 POU4F1
MED1 KAT2A
BTK RPS6KB2
BCL3 STAT3
KIF5B YWHAH
ACTN1 CTNNA1
CSF1 RPS27A
NUP153 XPO5
TRIM27 TRIM29
A2M KLK2
ATG14 PIK3C3
PPP1R2 NEK2
TSN TRAF6
SUV39H1 RBL2
TCP1 TBK1
BCAS2 SRRM2
RPIA WDYHV1
LMO2 MAPRE2
EPHB6 EFNB2
ADRB2 ADRB3
IL2RB GNB2L1
KCNB1 KCNS3
PRKAR1B UBE2I
PAM UHMK1
POLR2B ITCH
SPTA1 ABI1
NAA10 HIF1A
RPS11 PINX1
KCNH1 CALM2
PEX19 ABCD2
BMPR1B SH3KBP1

S1PR1 HTR1D
ARNTL EPAS1
TAL1 BCL11B
MXD1 PRAM1
MYC FANCI
CCNB2 FLNA
BCL6 HDAC1
FAM46A BCCIP
SKIL ZBTB3
PGRMC1 HEATR2
TP53 TAF9B
HSP90AA1 NFKB2
USP2 HOOK2
MAPK3 AVPR2
SETDB1 PLEKHA4
ATXN7L3 KAT2A
CLU MMP28
YY1AP1 EWSR1
YWHAB MARK4
GHR PTPN22
KEL EWSR1
UBE2V2 DZIP3
PFN1 CRMP1
DYNC2H1 DYNC2LI1
TGFB1 BGN
ACTN1 PHB
BRCA1 ORC3
ANXA2 SOS1
KLHL24 COPS6
JAK1 IL10RA
ARF1P1 TMED2
NFKB1 DNAJA1
CDK4 CCND2
RPL11 TBK1
HDAC3 RUNX2
RAB3IP BBS4
AR COX5B
UNC119 SEPHS1
POU1F1 MED1
ESR2 MKNK2

USP53 CPNE7
UBE2C BUB1B
TCEB1 TCEB2
HDAC1 NUP54
PFN2 WDR33
MDM2 CUL1
CBFA2T2 TAL1
RIMS1 ERC1
TAF10 TAF8
LDOC1 FXR2
EEF1A1 EXOSC4
SMAD3 EPAS1
TTN WNK1
ZFYVE9 RHOT2
GRB2 PLEC
DCN COL4A5
SRC STAT5B
GAS7 MAP3K12
INPPL1 SHC1
PIAS1 SREBF2
KCNJ2 IL16
PRPF6 USP39
BCR ABL2
SLC2A3 GOLGB1
BSG SLC16A1
PRNP DPP6
CFL1 PLD1
PTPN6 SHC1
TPD52L1 C7ORF36
GNA13 USP3
MCM10 ZBTB8B
BEGAIN RIBC2
EIF3D EIF3H
SNRPA CDC5L
HMGB1 SIX5
MLH1 RUVBL1
HCFC1 NFE2L1
WDR37 EWSR1
CYP3A4 STUB1
CALM2 RCHY1

SH3GL1 SH3GL2
SH3GL1 SH3GL3
SFN BCAR1
TNP1 PRKACG
MYC CAPZB
LRRC7 CTNND2
RHOC ARHGDIA
NR3C1 NRIP1
HIST1H4I NCOR2
GRB2 SKAP1
EGF VTN
CDKN1B ARHGDIA
MAPK8 JDP2
CDC42 BNIPL
TBP NCOA3
YWHAQ PPFIBP1
CDH1 PTPRM
SNCG EXT2
PLSCR1PLSCR3
RAE1 RBM8A
VHL MYCBP
NFKBIE PSMA5
HIST1H3J GATAD2B
DAND5 STAT3
CASP3 ARHGDIB
ETS1 EP300
TP53BP1 PIAS4
SFN SH2D3A
PICK1 ACCN2
LDHB TBK1
AHR EP300
VIL1 SRC
VIM SNCA
ERBB3 SH2B3
PFN2 VASP
TBL3 DHX30
UBE2K RNF4
MMP14 TIMP4
UBR5 RELA
PIK3R1 DAB2

C3 LAMA1
ANK1 EPB42
HOXA5 PBX1
ITGB7 TENC1
BRCA2 BARD1
DYX1C1 MAP1LC3C
UBC SH3KBP1
SRSF3 SREK1
SMURF2 MYOZ1
EXOSC8 CWC22
CDKN2A SMARCA4
CTNND1 PTPN6
SEPT4 NR4A1
TRIM23 TSG101
ACTB P2RX7
MYCBPTMBIM4
TP53 RASGRF1
PLSCR1ZBTB16
MBP PRKACA
GHR BTRC
CLCN7 PACS1
CDC37 TBK1
PSMA4 POMP
CAMK2G LRRC7
BMPR1B CHN1
NEDD8 UBA3
PTPRC PTPN6
MAP3K7 NRIP1
HRAS TIAM1
SMARCA4 ZMIZ2
ATF7IP SLC12A4
LCK BCL3
GLP2R GCG
EIF1B PRMT1
C4ORF14 DCTPP1
GLI1 HDAC1
RUSC2 RAB1B
HSP90AA1 NFKB2
TPI1 YWHAZ
APBB1 FASLG

FLNB CRK
HSD17B3 MLH1
GSK3B NOTCH2
ZFYVE9 FAM46A
ATXN1 WNK2
SHBG CTSD
PPP1R13B TNIK
BEGAIN DEF6
SYK POU2AF1
TNIK RUVBL2
ZFYVE9 UBXN11
PTPRB PXN
TSC22D1 NRBP1
TBP PIAS3
MYO1CSMARCA5
XRCC5 NR1H4
SETDB1 C11ORF1
CSNK2A2 CALM2
PIAS2 SUMO2
RHOA PLD1
NID1 FBLN2
RNF13 UBE2D4
TIMM50 TAB2
SIAH1 TRIB3
BMPR1B TTC17
STAT3 HDAC1
GPAA1 PIN1
ACTG1 ST3GAL3
KCNQ1 AKAP9
EIF3D PHLDA1
COPA USP49
KPNA3 HLA-B
DBN1 IKBKG
SARS SIRT2
SFN CSNK2A1
ACTR2 CTTN
MEF2C MAPK7
PSME3 ATG5
CCNC MED29
SRC CAV2

RXRG PPARD
HCK SRC
FTH1 TSC1
TNFSF11 MAPK1
EP300 PIAS3
SNRPC SF3A2
GAK CCNG1
JAK2 BCR
ESR1 SMARCD3
AIRE LMNB1
PDGFRA CAV1
CUL2 COPS5
APAF1 HSPA4
PAX6 EP300
NAE1 UBQLN4
ABL1 SPTA1
TUBB4 TNFRSF1B
MED17 TRRAP
JAK2 ERBB2
WDR33 PRMT1
EIF1B NUDCD2
IL18R1 IL18
DNM1 PACSIN2
PDGFRB TYK2
EPRS ARL4D
DLG3 CACNG2
RXRA NSD1
MAPT CASP3
PMF1 MIS12
PLCG1 SH3BP2
RAF1 HSPA5
PABPN1 TNPO1
MEF2C CBX3
SRC PTPN2
GABARAP RASSF5
UBE2D3 RNF125
YY1 SREBF1
YIF1A SLC34A1
DAND5 SOX10
CNOT3 TOB1

NCK2 IRS1
GRIPAP1 TES
NGFRAP1 TRAF6
E2F1 NGRN
SPTB ANK1
MEF2C CALCOCO2
TDP2 TRAF3
RFC5 MEPCE
DAPK1 FADD
WIPF1 NCK1
GSK3B SPICE1
HIST1H4I CTDP1
MYC EXOC1
MOBKL2B CNKSR2
PSMD2 ADRM1
SRF PRKDC
EIF3M ACTR6
GABARAP GABRG3
MCM2 CDK6
UBR5 KPNA1
NCK2 ERBB2
PRKCD PLCB1
EPB41 SEC14L1
MSX2 RUNX2
PTPN6 KHDRBS1
UBE2W AMFR
RFX1 SMAD4
PHB RBL2
STRN3 PDCD10
H2AFX MDC1
STAT1 RNF11
NCOR1 SRCAP
SIN3A PFDN5
GAPDH MAPK1
FRA10AC1 RP4-788L13.1
FYN GTF3A
CSNK2A1 HSPB8
CD3EAP SSRP1
PPARD SPEN
ATG14 PIK3R4

SMARCA4 MCPH1
ATXN1 ZYX
MLH1 RUVBL2
H2AFX RAD50
CDAN1 PDPK1
CCDC116 MDFI
E2F1 SKP2
GRB2 DUSP15
TPM1 C19ORF50
SULT1E1 IGSF21
PRKCB NCAM1
TAF4 TAF8
ZBTB24MDFI
RAB6A TMF1
KIT STAP1
MYBL1 CREBBP
SON YWHAG
TAF4 TAF12
BAI1 DLG4
SPOP SIRT2
NASP FTSJ1
TARDBP HDAC6
UBE2N ZNRF1
CREB3 APPBP2
PDPK1 TBL2
NFKB1 TIMM50
USP13 TRIM55
E2F1 ATM
BIN1 SYN1
APEX1 FEN1
NR3C1 CLTC
SNRPB GEMIN5
PRKCI PSD3
FLT3 PTPN11
TRAF2 TRPT1
EGFR ERBB2
CAV1 FAM113A
ASCL1 MEF2A
IL1R1 MYD88
HCK KIT

TF GTF2F2
UBE2I COPS5
UBE2E1 RNF150
SMAD7 FKBP1A
MAPK8 BID
MUC2 GALNT12
HDAC1 HEY2
BMP2 ENG
SIAH1 HIPK3
PLK1S1 CEP72
MCC GANAB
SUB1 HSF1
TUBB4 MAX
VAPB VAMP1
CNBP IGF2BP1
CBFA2T2 ID3
MED8 MED30
TBXA2R YWHAZ
BIRC5 CASP7
BIRC5 CASP9
SMAD1 ZNF512B
SHMT2 NDRG1
RUNX1 TRAF6
SUPT5H SAP30BP
CA8 ITPR1
SUMO2 TUBB6
HDAC4 SMAD3
NCOR1 HDAC5
UBE2E1 RPS27A
SEC61BSRP54
RPS27ARAC1
HSPA13UBQLN2
FAM58A CCHCR1
SMAD9 ARNT
ABL1 ERBB3
ESRRA NR0B1
NCOA1 RORB
IL18R1 IL1RAP
CBX5 HDAC9
RET STAT3

SFN WDYHV1
YWHAG NUMBL
SMARCC1 CHD7
MYC TIAM1
WARS CDH5
CHEK1 SFN
IPO5 GABARAPL2
NR3C1 NFKB2
HSPA5 GRB2
DYNLL1 DLG4
IL2RB IL2RG
EEF2K RPS27A
HSP90AB1 HES4
AKTIP VPS18
WBP4 HLTf
HNF4A PPARGC1B
MUTEDCNO
NEFL SPTAN1
UBE2E1 PAEP
CD74 CXCR4
SPTAN1 MAP4K3
VIM LOR
ABL1 LTBP2
MAP2K4 MAP3K10
MAP3K7 STAT3
NCOA1 CREBBP
GOLM1 SLC40A1
EPS15 SPG20
NUF2 MIS12
TLK2 TLK1
SNAP29IGF1R
PML MDM2
SEC14L3 HLA-G
HTRA1 CDYL
NUDT21 MPG
CXCL11 CXCR3
MED26 POLR2L
SREBF2SLC4A5
GCG GIPR
VAV1 BTK

AQP1 KCTD17
VPS33AUVRAG
KDR STAT1
COPS5 COPS8
MITF MAPK14
PRKCB MKI67
NINL MAD1L1
TBP HDAC1
UBE2H POLL
EWSR1 SLC22A24
ADAM10 AR
EIF3F EIF3E
FLOT1 SORBS1
MRAS RALGDS
COTL1 PINX1
AKAP13 CTNNAL1
DNMBPEVL
SREBF2PIAS3
SLU7 SRRM2
BCL6 CREBBP
MARK3TCEA2
TAF4 TAF9
NDUFA4L2 LUC7L2
BCR PTPN6
GRIA3 NSF
SF3B1 CCNE1
BCR SHC1
UBA52 MEF2D
GRIN2B TANC1
FGF2 FGFR4
PTPRZ1GRLF1
POU3F3POU3F4
STX1B STXBP1
CTSB USP29
DCAF11 PARP11
PITX1 NEUROD1
AMPH CDK5
SF3B1 PHF5A
TP73 WT1
EIF3H EIF3L

PSMF1 PDLIM7
NFKBIA SUMO4
EWSR1 CEACAM5
BLM RAD51
TSC22D1 HEATR2
TIMM44 HSPA4
COPS5 RNF139
GNB1 CACNA1B
MMP14 BCAR1
GLRX3 ADAMTSL4
MGMT UBA1
NRBF2 CPVL
MEF2A FAM50A
HLA-A TAP1
TUBA4A SIRT2
ZNF23 PCBD1
SKIL TFPI2
NCOA1 ESR2
ST13 MAX
SRPK2 SRSF1
PHF2 XRCC6
SOCS3 TRAF6
KARS DARS2
PABPC1 EIF4G1
HDAC1 DPEP2
DNAJC7 RAD9A
MYL6 MOBKL3
PKD2 PACS2
RXRA HDAC4
GOT2 MCC
GAPDH MAP2K2
PRKDC KAT2A
MDC1 ANAPC1
MED29 MED16
SCGB1D2 SCGB2A2
RARA THRB
STAT5A NMI
NCOR1 YWHAE
ESR1 YWHAH
ZYG HIPK3

VIM MAP3K1
PPP6R2 TBK1
FN1 ITGB7
CEBPD FANCD2
DLEU1 SETDB1
RARG JUB
ABI1 ENAH
HSPA5 IKBKG
SOCS1 CSF1R
ERBB3 CD82
KBTBD10 CUL3
HNRNPL HMG20B
DGKD IGSF21
SP8 HEYL
HIST1H1B SIRT1
OMA1 CDK5
MAP3K1 SLC1A5
MAP3K7 MALT1
PSTPIP1 FASLG
DNMT1 DNMT3A
SMAD7 RPS27A
NFKB1 TNRC6B
LDOC1 POLL
MAP3K7 TGFBR1
SMNDC1 CDK5RAP3
NMI EMILIN1
GPRIN1 CACNG2
HDAC1 DNMT3B
YES1 CD46
SLC2A1 CANX
VIM TRIM28
IKBKE SMARCC1
CD3EAP CD3E
SON YWHAB
GRB2 MED28
NMI BRMS1
SOCS2 PRLR
COPS7A COPS3
ZRANB2 ARRB2
RHOB FBXO42

AKT1 PRKCZ
ERBB2 ACP
MYF6 ELSBP1
CTSG CXCL12
PRKACA CAD
TFAP2A WWP1
ERN1 HSP90AA1
SFN RICTOR
SMAD1 ZNF521
CREG1 RBL2
CCNA1 LARP4B
HNRNPH1 MYSM1
ZZZ3 ZNF496
PSAP COPS6
PFN2 GOLGB1
EWSR1 SF1
SMAD3 EID2
EGFR APPL1
NPHS1 YES1
COPB2 TNFRSF10D
NPHS1 LYN
CDC20 HDAC1
SETDB1 ESCO2
HDAC3 MYC
PPARD PROX1
EIF1B CACYBP
PRKCB RIPK4
MCM4 CDT1
EFEMP2 CCND3
USP13 MRPL20
ZBTB16HDAC5
CDK1 UBE2A
FHL3 PAK7
H3F3B SS18
NCL MAP3K1
VIM PAK2
S100A4 SEPT6
SNAP29PACSIN1
MAP1A DISC1
AXIN1 SH3GL1

GAD2 GAD1
TGFB1 TGFB2
MYH9 WNK1
GNAI2 TSHR
DDX3X ZNF512B
MAPK8 COPS2
POLR3G POLR3H
RELA BTBD2
FN1 TGFBI
DYNLL1 DLG2
EEF1A1 ZCCHC10
FYN POLD1
ERBB2IP NOD2
CLN3 FANCI
SIN3B MYT1
NFRKB UCHL5
RANBP2 KIAA1324
RPL35 CBF3
PIK3R2 CRKL
HEXDC GDPD2
KCNJ4 KCNJ2
TNNT1 CCDC85B
CUX1 CREBBP
GAPDHREL
RAE1 SEH1L
ARPC2 ACTR3
GATA2 POU1F1
EIF3H EIF1B
ARRB1 CALM2
EWSR1 MYOZ2
MAP4K2 TRAF2
ARPC2 ACTR2
AR TDG
TBP ELF3
LIMK1 RLIM
SKI GATA1
PAK1 C5ORF42
DAND5 MIS18BP1
CALR CANX
ABL1 MTOR

HDAC1 TPD52L1
IL2RB IL15RA
XRCC6 WRN
RASSF7TSC1
VCP DERL2
LDLR FLT1
LSM12 GOLM1
FN1 DCN
KIAA0090 TNIK
PAK1 ZNF418
ZRSR2 U2AF1
RPS27ARELB
TBCA TNIK
CSNK2A2 BID
PTPRC LGALS1
NLK LEF1
CDK4 SMC3
CTSE EDN3
MAPK6 RNF2
AR HDAC1
FGF1 FGFR3
NR3C1 YWHAH
ITGA5 ANGPT1
NDUFS6 FGFR3
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PLRG1 CDC5L
RUNX1 ELF4
PPARD HDAC2
DST SREBF2
AKT1 AKT2
CDC7 CDK4
RAPGEF3 RRAS2
HSPA5 TAB1
PSMC3 PAAF1
GRB2 KIF13A
HSPA4L SOS1
ADRB2 OPRD1
PLAT FN1
PFDN6 RUVBL2
RHOD SMAD4

UBR5 MAGED1
TP53 BCR
PIK3CA PRKCD
SLC25A21 AZI1
TEX11 SNX7
MAP1LC3A ATG3
ATP5C1ZNF337
VDAC1 MCL1
EGF GRB2
FGF2 SDC2
DAB2IP TP63
ZEB1 EP300
ITGB1BP1 CAMK2A
SNX3 RPS27A
CDK2 CCNH
COL1A1 CD44
MCM3 MCM6
PSMA3 CSNK2A1
PARP1 TAF13
CORO1A ACTB
TGFB2 TGFBR3
ATP6V1E1 SOS1
SNX3 GRB2
ZNF821 C1ORF190
FBL ARFGEF1
NR1H2 ING3
ANK1 PLDN
STAMBP CHMP4C
UCHL3 NEDD8
STAT6 WWP1
PLK1 TMF1
PPP2CB FAM40A
FGFR2 PIK3R1
EIF1B PFDN2
DEPDC1B FAM175B
EVPL PLEKHA5
MLXIP CNPY2
HLA-B S100A11
DMWD FTSJ1
SPAG9 MAPK14

ESR1 PIAS3
HDAC1 ZMYM2
C20ORF24 ATAD3A
TRIM23 AKTIP
KCNA4 KCNA1
SGSM2 CELSR3
C20ORF24 FANCI
PSMD4 PSMB7
PARP1 TCEA2
RAB7A RILP
VDAC1 BCL2L1
RUNX2 CREBBP
MCM2 ORC1
VDAC1 BAX
MCM2 ORC2
PAICS CCNA1
CRK MICAL1
ACTA1 PPP1R9B
ESR1 NCOA3
KNG1 HABP2
MGRN1UBE2D3
MTA2 SUMO2
CD5 CSNK2A1
APP BGN
FGF1 CSNK2A2
CRK SUV39H2
FLOT1 BBS2
ELAVL1 RUVBL1
NFE2 WWP1
AKT1 STUB1
HSPA1B YWHAQ
GADD45G GADD45A
CD3E EPS8L2
AR CASP7
NR3C1 TSG101
EIF2S1 SFN
MYOD1PRKCA
C1R CSNK2A1
TRMT112 TNIK
SOCS1 IL2RB

CASP8 NR1H4
DPPA2 PBXIP1
GTF2H1 JDP2
FGFR1 ATG5
SREK1 SRSF8
SPP1 PRKG1
GUK1 UBE2Z
DAND5 ESRRB
PTK2 SRFBP1
MYC CREB1
RPL8 ST3GAL3
TPPP GAPDH
EBNA1BP2 LYAR
MAPK1 PPP1R9B
KCNA4 SNTA1
PSMD4 PSMD1
CSTF2 BARD1
HES1 HES6
TFDP1 E2F4
SGTA GPX7
EVI5 INCENP
MED14 TRRAP
CBL AXL
MMP7 CD44
RAB11FIP3 TOMM34
FBXW4 CDC37
TTC27 PHLDA3
SPINT1 HGFAC
CHM EEF1A2
RIPK1 CDC42BPB
TNFRSF1B TUBA3C
SSX3 SSX2IP
SH2D1B CD84
NFKB1 HSPA1B
NIF3L1 CUTC
MPDZ OR1D2
BRCA1 CDK5
SCNN1B SCNN1D
DYNC1H1 FAM46A
CAMK2D IKBKG

CDH2 CREBBP
SCNN1B SCNN1G
BRCA1 CDK16
NFKBIA CSNK2A1
USP4 SART3
SLC3A2SLC7A7
RUNX2 KAT2B
CFLAR DOK2
NSF FUNDC2
RAC1 MAP3K10
PPP2R1B RAB18
ATP5C1NGEF
WBP4 CAPRIN1
TRIM28TRAF6
RPS27AYWHAZ
PDIA4 PDIA3
SRSF2 CIR1
SLC25A1 MAGED1
EPOR MAPK3
PRPF40A HSPG2
PRKCZ FEZ2
TJP1 UBN1
TCEANC ZNF167
EZR PALLD
NUDT1 NTHL1
MCM2 MPP3
CD2BP2 RAD54B
NTRK1 CAV1
CCND1 IFI27
ZNHIT3 ESR2
PPIB DNM2
CBL UBASH3A
SMAD9 DST
TTR HSPG2
DAZAP2 PEF1
TTR LRP2
DAND5 GATA1
PCGF2 RNF2
NCOR1 TRIM33
PIGR CCL5

CTNND1 GRIK2
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SORBS3 KIAA1217
VCL CTNNB1
VCL CTNNA1
UBE2D1 UBASH3B
PSPH STYXL1
TRAF5 TRAF3
TSEN2 TSEN15
PSME1 TUBB2A
GH1 CACYBP
DHX30 SIN3A
EGFR PSMD4
PCGF2 PHC3
CHD1 H3F3B
FCGR2B PTPN11
CDCA5 PDS5B
MPHOSPH10 IMP4
CDH1 RRM2
HDAC3 SPI1
ORC4 CDKN2A
CEBPB CAMK2A
HDAC3 PPARG
EXOC4 EXOC1
PRUNE2 EWSR1
RNASEH2A BATF
NR4A2 EIF3A
HIF0 GRB2
CTNNB1 RUVBL2
B3GNT1 GYLTL1B
CD164 MYO5B
CLSTN1 TOPBP1
JAK2 PKD1
SLC25A5 IKBKG
SRSF11 PIN1
CA2 SLC4A5
NUP98 MOBKL1B
EXOSC10 FERMT3
CYCS CYB5R1
TUBA1A STARD13

DEPDC1B USP7
SRC LNX1
SEC61A1 NDN
CUL4B COPS6
CSTF2 FEZ1
TCEB1 ASB8
KCNC1 KCNG3
UBE2D3 RMND5B
E2F1 ARID3A
RUNX1 NCOR2
CD3E EPS8L1
APOE VLDLR
RNASEH2A MAPK14
CD3E EPS8L3
MLH1 MLH3
HDAC1 HINFP
E2F1 TRIM28
EIF3F CSNK2B
CDK1 BCL2
PPP1CBPPP1R7
USP1 LYZ
TEX11 TCHP
PIAS1 CREBBP
NCL FBL
CALR3 SRRM2
RFWD2 CCT7
PTGDS ATXN1
CTNNA1 PTPN14
RASA1 HTT
GPI RPS27A
PACSIN1 PACSIN2
MLH1 IL20RA
APOE LRP2
HIF1A EGLN3
PAFAH1B2 PINX1
PDS5A STAG2
NADSYN1 MYO15B
ADRBK2 CXCR4
PIK3R4 MAP1LC3C
MAPKAPK2 ETV1

CDK5R1 LMTK2
NPM1 MDM2
MITF OTX2
KCNA3 BAX
SMCR7 UBQLN4
ALB PSMD4
PIK3R1 AXL
NOTCH1 NOTCH3
RB1 L3MBTL2
NID1 PLXDC1
TK2 C14ORF1
PHYH PHYHIP
YWHAG FHOD1
PRSS23 PDPK1
GRB2 CHR1
PLCG1 FGFR2
WDR33 GIT1
HDAC3 VHL
PTPN2 ITGA1
ACTG1 PLD1
CUX1 KAT2B
SH2B2 KIT
YWHAQ WDR77
RPS6KB1 BTK
PDHB IKBKE
PTGDS PTGER2
BTK WASF2
PPP1R9B RIPK3
PRKCA XK
IKBKB PRKCZ
ERBB2 PTPRO
PIN1 PKMYT1
AR CUL4B
SOD2 VHL
IL1R1 IL1F10
IKBKE TANK
SKIL NID1
GNAQ AKAP13
TGOLN2 NCSTN
VAV3 ALK

ZBTB16ENOX1
SPTAN1 ERCC4
GH1 PDHB
GRM5 HOMER3
TCEA1 POLR2B
CDC42BPA PPP1R12C
SREBF2INSIG2
PRKCZ CLASP1
RHOG ELMO1
NCOA1 DDX17
RUNX1T1 ABI3
CD2BP2 MAGED1
CDC42EP4 WDR6
IFT140 CELSR3
GP1BA CTSG
TGFB1 UIMC1
RBL2 SUV420H2
DPM2 DPM3
HSP90AA1 FKBP4
EZR FASLG
SORBS3 ADAMTSL4
ERBB4 DLG2
CCNB2 CDK1
COPS5 MAP3K3
BRCA1 SMARCA2
CHD3 CTTN
THOP1 MPP6
NCOA1 KAT2B
AP1S1 ARMC6
BRCA1 SMARCA4
TRAIP UBE2Z
RIPK1 IKBKG
CDK9 HEXIM2
MAPK8IP3 MAPK8IP1
HIST1H1E EHMT2
ACTG1 ITGB3BP
RPA2 CHD1L
SNRNP40 PFDN2
MYOD1NR2F2
HTT FEZ1

EXOSC10 EXOSC7
KIT PTPN6
EPB41 PSMB5
TAC1 MEP1A
PIN1 PTOV1
PML NCOR2
CUL4A CAND1
DNAJC11 GSTK1
DAND5 GTF2B
VPS33AVPS18
ATN1 MEGF11
PPM1G USP36
WWP2 EWSR1
APC LRSAM1
NASP HIST1H3J
TPM1 EPB41
TP53 SERPINH1
REC8 SYCP3
TP53 SERPINB9
PRKCG PICK1
STX1A CPLX2
TJP1 RAB8B
STAT1 PRMT1
EXOSC10 XRN2
PLAT MAPK3
PTPRC JAK3
NOTCH2 JAG2
EPB41 CYCS
DNAJC7 MAP3K3
NCOR1 PPP1CB
CS TRAF6
RAC1 PARD6G
SLC25A5 SIRT4
KRT5 EVPL
RAC1 PARD6B
BRCA1 BRCA2
CRMP1 SEPHS1
FHL5 ZSCAN30
ILF3 PRMT1
COPS5 DCAF4

CLK2 UBL5
NCOR1 PPP1CA
HSPA5 MTNR1B
IL11 IL6ST
NONO MAD1L1
GLB1 CTNNBIP1
HDAC2 CREBBP
HIF1ANINVS
RGS10 GNRHR
GAS7 ACTA1
PRKCA AVPR1A
C1QTNF1 UBQLN4
RAB1A ADCK1
CAV1 PLD2
ERG SETDB1
CD44 IGFBP3
U2AF1 RP9
KIF5C KLC3
GTF2B RELA
MCC STRN4
TXNRD1 TXNIP
GRB2 SEMA6A
ACTG1 EPS8L3
SRC PTK2B
ACTG1 EPS8L1
RPL5 CSNK2A1
POU4F1RIT2
NCOA1 COPS5
GTF3C1ASCC2
PLAT FGA
RPL7 CANX
SRC PRDM2
BRCA2 ATR
SNAPC2 SNAPC4
PIAS4 MAGEH1
MAP4K4 ANKRD26
SRC AKAP6
RUNX1 HIPK1
USP19 PYGL
GPS1 DDB1

CRK DOK4
YWHAG RAI14
RPS27A GCM1
ZNF193 SP110
PI3 CELA1
CAPN1 DES
POLR2C POLR2E
KIAA1549 ITSN2
BAG6 FAM46A
UPF1 SMG1
GFAP GRAP2
TRIM21 EEF1D
RET GFRA1
CEACAM5 EWSR1
YWHAG MARK1
HSP90AB1 GPN1
GOSR1 NSF
RBPJ KAT2B
RBPJ KAT2A
MYH9 PRKCE
BCL10 BCL3
ACTN4 CAMK2A
UBE2Z SRA1
RUNX1 SMAD5
YTHDF1 GSTK1
XRCC6 ARAP1
TSC22D1 OSTC
SRC RIN3
H3F3B SAP130
GRIA1 TRPC1
SRC CTTN
LIPE NSFL1C
CYCS NDOR1
SRC TRAF1
AVIL CRK
EIF4A2 DNAH5
RPA2 MED31
POLR1A BARD1
KRT36 LYAR
GRAP2 SHC1

WNT7A STRN4
FYN CD44
PIN1 RBBP8
KLKB1 HGFAC
DCD EIF2B1
TOB1 SERGEF
PDGFRB PTPRG
MAPK1 CIITA
ANKRD6 AXIN2
BCL6 HDAC2
SUPT7LMED17
SLC2A1CALR
CAPN1 CLEC4G
GLI1 ZIC1
CST6 HLA-B
MAST3 CNTNAP4
MMS19 GIPC1
YWHAG C16ORF80
ZBED1 UBE2I
C7 CLU
POLR2I POLR2H
PSMD3 PAAF1
SLC38A1 TACO1
SRC LCP2
FTH1 PACSIN1
CA2 SLC4A2
OGT SIN3A
SEMA7A ABL1
STAC C9ORF156
MLH1 RAPGEFL1
PLIN3 TBPL1
SF3A3 SF3A2
DAND5 GATA3
IGF2 GPC3
UCHL1 COPS5
NFKB1 MATR3
ACTA1 XPO6
SYT1 PCBD1
BIRC2 TRADD
NTRK1 PIK3R1

ABHD16A ATP5G3
CDCA8 AURKB
SRC PDIA2
SLBP UPF1
ADRB2 CSK
CLIP3 WNK1
MSH6 PSMD4
SDCBP2 NRXN1
HSPA5 NFKBIB
TMEM33 PPP1CB
NR3C1 KTN1
CD177 EWSR1
APOH LPA
CTNBL1 CALCOCO1
UBLCP1 TSC22D4
YWHAG SH3BP4
COX7A2L MAGEA11
ARNT SIM2
MED29 MED31
PTPRC PAEP
MAP3K10 KIF3A
GTF2I ZBTB17
PGAM2 USP15
MAP3K7 TUBB
RAB11A RAB11FIP5
DAND5 E2F2
SF3A3 SF3A1
BCL2 MAPK1
UBE2I RORB
UBE2I TFAP2C
DYNC111 DYNLRB1
BRCA2 SMAD3
LYN CSF2RB
PINX1 DDX18
MAP2K5 MAPK7
CLASP2 MAPRE1
PLCG1 RYR1
MYBL2 HIPK2
ADRB2 ADRBK1
TNNT1 SMAD1

TNNT1 SMAD2
PDGFRB PTPRB
PIAS1 ESR2
PDGFRB PTPRE
DPPA2 MOAP1
PGAP3 FBXW11
PRKAB2 NET1
PARP1 MED1
EIF3F EIF4E
ATAD2 NCOA3
LONP1 TSC22D1
LOX DHDDS
VASP ABI1
SMAD2 E2F4
PMCH MCHR2
PAK2 SH3RF1
UBTF CSNK2A1
PDGFRB JAK1
PIAS1 CREB1
PLOD3 HNRNPA1
IL6ST GRB2
MAPK1 TNIP1
DEDD KRT18
PPM1G SNRNP70
SRF MAL
TNFSF9 TNFRSF9
PLCG1 ERBB3
TTR MARK3
HLA-B RANBP1
VPS33BUVRAG
ZNF165 ZSCAN30
ARHGDIB KLHL12
GCDH EXOC6
YWHAZ SSBP1
USP39 TSR2
SRSF7 NXF1
MEF2D CARM1
EPHB2 RYK
NR1H2 TMEM161A
HGS EGFR

NKX2-3 GTF2A1L
HSPA9 MAP3K8
CORO1A UBE2G2
CASQ2 CSNK2A1
PRPF4 PFDN1
HMGB1 CTCF
CPNE6 OS9
RNF103 DERL1
SRC P2RY2
HDAC3 TCP1
RPIA FXR2
PPP1R3D SFN
CSF2RB CISH
COL6A2 ABCD3
RRP1 LARP1
PHLPP1 WDR20
CYB5R3 PRKAB1
THRA RXRG
MAP1LC3A KIF15
TGFB1 ACVRL1
DCTN1 DST
SRC CSK
SRC TIAM1
SORBS3 RAPGEF2
NR3C1 BAG1
DLG1 GRIN2B
TP73 ASF1A
RPS27A RUNX1
C10RF65 MDFI
ID2 RBL2
RAE1 UFD1L
CDKN2B CCDC90B
TGFB1I1 TRAF4
CLDN5 CLDN1
SLC2A4RG HDAC5
APEX1 ANP32A
PPARG HDAC4
MCM2 ATM
DAND5 DROSHA
OTUD4 BAG5

PRSS23 HSPA4
EGFR GNAI2
SNRPB SF3A2
PTN CAPZB
ZNF24 ZNF434
CDC42EP1 RBPMS
PDIA4 HLA-B
PHF2 THAP1
UBE2G2 AMFR
CDX2 SOAT2
VCP SRRM2
VIP MEP1A
CDH2 RAB8B
PRSS23 PHF23
GRAP2 CSF1R
STAT3 NFKBIZ
FLI1 KLF1
TRIM21 APC
FHL3 TRIP6
SH2B2 ERBB2
ABL1 CUL7
SH2B2 NTRK1
PLK1 CHFR
HLA-B PLS3
XRCC6 XRCC5
CCR7 CCR10
SNRNP70 SRPK1
CCNC MED10
MAPK3 CASP9
TARBP1 WDR48
PRKACA ITPKA
TCF4 TAL2
PARP1 XRCC6
PCNA MSH3
RPA1 PRKDC
PIK3R1 RRAS2
RXRA TAF1B
UHRF2 UBE2D4
CRMP1 HMGB1
SF3A2 AGGF1

HTT SH3GL3
PAICS DGKE
ATP6V0C ARF6
TOP2A SUMO2
CDC42 ARHGDIG
GNAO1 OPRD1
GNA12 ARHGEF1
TRAF3IP2 MDFI
VHL HYOU1
CSNK2B RNF7
ZFP64 C14ORF1
EEF1A1 PACSIN1
C3 CFI
BUB1 AP1B1
HDAC3 PBX1
SEPT6 CDC42EP3
HSF1 TAF9
XIAP STUB1
NUDT21 TRAF6
CTSB RGS2
MAP3K7 CALM2
MYC HUWE1
MERTKIKBKG
EPPK1 GABARAPL2
EIF1B FTSJ1
RECQL5 NCL
EEF2K PRKACA
RXRA ZBTB16
CDH1 PLEKHA7
ILF3 ZNF346
CRK MYO18B
MYLK ALK
FXR1 FMR1
RORB MAP6
SMAD9 YWHAQ
AXIN1 LRP6
NPHP1 BCAR1
CAV2 MALL
PMS1 CUL1
JAK1 CCR5

HGS UBE2I
NCK1 CCKBR
PHB CXORF26
CASP7 CASP10
NGFR SORT1
NEB APC
PRKCQ IKBKG
FYN TNK2
PPP1CBWBP11
SDC3 PTN
SRSF4 SRSF6
SNRPB SKIV2L
FBL TAF9
LAMB3 LAMC2
PMS1 CUL3
NKRF NFKB1
RAG1 PLCG1
DPM1 MTNR1A
BMPR1B RAP2A
MSH2 SUMO2
ITGB2 ITGAL
JAK1 STAT5B
MAPK1 PPARG
ITGB2 ITGAX
BAG6 CHN2
HSPA5 TRAF6
SLC34A1 FHL2
MYOD1PHB
SNW1 NCOR2
CDK2 EP300
FOS RUNX2
F2 PROZ
TADA3 EP300
NTRK1 SHC2
PDXDC1 INPP5K
IL1A CASP1
NR3C1 RAD9A
MED8 MED9
PIN1 SREK1
SF1 EWSR1

NR2F6 TMX4
CACYPB TRAF6
YWHAZ MPRIP
COL4A1 COL7A1
PRKCDBP EPS15L1
FOS CCDC158
YWHAQ ING1
CD44 TRAF6
PDE6D CDC42
ASAP2 ITSN1
RET MCRS1
CDC25A CDKN3
GATA1 CASP3
TNFRSF10B RHOA
STAT5A AGAP2
SRF RXRA
CLK2 CLK3
TCEAL1 SSR3
DAND5 PURA
HSPA5 MEPCE
WDR20 OPTN
F2 ST13
CRK FASLG
PPBP COPS7A
SMAD3 MBD1
HSPA4 ZMYM2
PDHX DLAT
PSMB5 FTSJ1
DISC1 MACF1
CCNE2 SUMO2
KRT31 CDK12
RHOBTB2 KDM5B
SPIB E2F2
LMNB1 SUMO4
UBC MAP3K3
ETS1 PIAS4
CSK CREBBP
MLL3 ASH2L
ABCA1 TRIM27
SMAD9 ACVR1

ILF3 MDFI
NR3C1 TJP2
EIF1B PCMT1
PDLIM1 PITX2
LHX2 RLIM
CTSD SLC2A4
SMAD3 ST6GALNAC2
CLASP2 SMYD2
XRCC1 TDP1
FANCA SPTA1
HAND1 HAND2
PRKCA ACTA1
EEF1D STK33
SLIT2 ROBO4
VPS72 EWSR1
LRSAM1 FAM178B
ITGA2BRNF181
KIF1C PTPN21
SET OTUD5
ACTG1 MAP3K1
TPM1 S100A2
BUB3 HDAC2
AIRE MSH6
UBA1 TMCC2
RAD21 CASP7
STAT5A CARM1
MLH1 STAP2
NFKBIE TUBA3C
NDUFS6 KCNH2
SNRPD1 GEMIN6
VHL HSPB11
IQUB MDFI
EGFR ADRM1
PPP4C CCT7
HMGB1C14ORF1
APC GOLGA2
NR3C1 HNRNPU
UBE2D1 BRIX1
VNN2 ITGB2
ATN1 NELL2

MSX2 ZDHHC2
RIPK2 TUBB
TFRC MYO1G
FLNB SRC
NR3C1 CLU
BRCA1 UBE2D1
GAK AP1M1
CDC25B CSNK2A1
S100A1 NIF3L1
ETS1 NCOA3
HSPA4 DNAJB11
PARD3 PLCB1
RAB7A GABARAPL2
DMAP1 RUVBL1
ETS2 SMARCA4
SRGAP3 SMARCC2
MYD88 IRAK4
RPS16 NFKB2
SCN4A DLG3
BCL2L1 GTF2I
CD9 MEF2C
PLXNB1 RND1
L1CAM CNTN1
EWSR1 PCBP1
SKA1 PLDN
TUBA1A IKBKG
EPHB2 MAPK14
IRAK2 IRAK1
PXN PTK2B
CD81 PTGFRN
HABP4 PIAS3
APCS C4BPA
LMNA KAT5
HAP1 RER1
CDK2 NOV
EXOSC6 EXOSC8
EMD LSM2
PARP1 HMGA1
PSEN2 DOCK3
PDLIM4 RBPMS

RNF10 UBE2W
SARNP SLC7A9
NDC80 SMC1A
UBE2D2 TRAF7
NT5C2 FXR2
KAT5 ING3
SAP30 BRMS1
GOSR1 IL27RA
LDB2 LMO4
KRT2 SMAD3
RET DOK6
PTPN6 KLRB1
TRIB3 GIT1
PTN ATRX
RIPK1 RNF11
MEF2C LAMA4
ARL1 GCC1
MAP4 FYCO1
ACACASIRT1
BRD4 HEXIM1
SPRN STRN4
RANGAP1 PRKAB1
CBX4 BMI1
CBX4 PCGF2
PLOD3 TECPR1
PRLR FBXW11
NCK1 CAST
ZNF862 ATN1
CCNH RADIL
EGFR ADRBK1
LNX1 RAD54B
PIGR AP1M1
EWSR1 PRTFDC1
RTN3 FGFR1
SFPQ RAC1
LCK CSF2RB
UCHL1 IKBKE
PROP1 HESX1
SNRPA PAPOLA
HDAC1 HIF1A

DAXX PLAGL1
ARHGEF15 ESR1
RNF111 TSG101
CASC3 EIF4A3
TRIB3 ATF5
ITGB1 RAB21
MCM3 PPP2R1A
FN1 CTSD
MCM3 PPP2R1B
MAPK13 KDM2A
RALGDS RAPGEF2
HOXD9 HOXC9
CPE RPA1
DDX3X PRKCZ
PRKCD C1QBP
EIF3F GLE1
CDC42 RPL23
IKBKE HDAC2
CDCA8 INCENP
AIP IKBKG
HSPB1 HNRNPD
FRYL YWHAB
TPR NFKB1
RANBP9 UBE2Z
IL4 IL2RG
PRPF6 MEPCE
SMC1A USP32
HOXA5 TWIST1
IGSF21 PRMT1
EEF1A1 CRADD
ADRBK1 GNA15
PAK3 RAC1
AKAP9 TACC3
CTBP2 HGD
RNF111 UBE2Q2
YWHAZ TUBB1
SRC DAG1
IL6 IL6R
RARA RUVBL1
UBC TSG101

CLN3 GCN1L1
AR NCOA4
DISC1 EXOC7
CFB C3
ZBTB16KIAA1549
DVL3 DIDO1
EWSR1 ZBTB1
MEF2A VGLL4
EWSR1 NINL
STAT5A CCR5
CCNO ITSN1
EWSR1 WDR37
TOX4 PLCG1
PRKDC TRADD
MEGF10 RACGAP1
CD8A B2M
SRC DOCK1
HIST1H2BB DYRK1A
TRIM28PRKAB1
UBE2C CDC20
TRIM27FBXL19
S100A10 BAD
MAP4 MARK4
ATP13A4 HES4
STXBP1 STX1B
PSMD7 PSMD13
RAD51L3 ZSWIM7
GSK3B PPP1CA
COX4NB TTC35
RPS14 RELA
CCL5 GRB2
ALB DMWD
PIGK PIGT
HCK RAPGEF1
FXYD1 ATP1A1
WRN MDC1
FXYD1 ATP1B1
TAP1 THOC5
GRHL2 GRHL3
ITGB1 ITGB1BP2

PAX6 PBX1
SLC38A1 CSNK2A1
MAP1LC3B ATG3
DFFA CASP7
MAP3K3 RAI14
EXOSC10 SKIV2L
CSNK2A1 MCRS1
USP2 KRT15
ATG12 RB1CC1
NGFR MAGEH1
YWHAZ EPB41L1
U2AF2 GIGYF2
DISC1 AGTPBP1
UBE2D1 DTX3L
RELA ASCC2
HTT ZDHHC17
SMAD4 NAT8
MUC1 GALNT10
ADD1 SMARCA4
PPP4C CALML5
SLC1A5TBC1D17
ADD1 SMARCA2
SMAD2 SUPT6H
NTSR1 NTS
ATG12 PTK2
EIF3B EIF3K
RFXAP RFXANK
POU2F1HOXC9
HNRNPF SUMO2
SPTBN4 DISC1
STAT5A STAT5B
F2 SERPINE1
ATXN3 CREBBP
YWHAB CRNKL1
FYB ENAH
SUMO2 TOP2B
MOCS2 ABCF3
KLKB1 IGFBP3
NECAB3 APBA2
CDC42 RPL31

POLR2E MED10
RPS6KB1 PPAT
XPO4 BRF2
NCK1 FLT3
ASNS STRN4
AKT1 SFN
TRAF5 RIPK1
SMAD4 RTDR1
MCC SAR1A
CUL4B DET1
THRA NRIP1
RPAP3 HELLS
APBB1IP PACSIN1
USP4 MEPCE
C9ORF9 DDX24
PMS1 ATR
PDS5A GSTK1
DBI PPCDC
EIF3G EIF5
C2ORF73 SH3BP4
PCNA CDKN2A
DARS AIMP2
HLA-A COPG
GNB5 OLFM2
ADD1 SIN3A
F2 SERPINA5
ARRB1 ARF6
F2 SERPING1
HNRNPL APEX1
POLR2H POLR2L
HSPA5 RIPK3
LPHN1 DAXX
SRCAP ATG9A
CDK8 MED13
SMAD4 DACH1
PRKACA ITPKB
TRAF2 USP53
NUP43 NUP133
TGFB2 TSSK1B
TNNI3 PKD2

PHF2 NCR1
HNRNPK TP63
TAC1 TACR1
CAPZB MRPL20
RUNX1 WWTR1
SCRIB TRIP6
STAT6 RLIM
MED8 MED17
LYN FCAR
PARD6A PLCB1
DLG4 DLG3
ERBB3 ITK
WDR5 RBBP5
SNAP23STX4
DST KIAA1549
SORBS3 ABL1
IL2RG IL2
SNW1 IKBKG
SRSF2 CCNL1
ALDOATRIM63
OSTM1 GPSM1
MAP2K7 CASQ1
SSR1 EDEM1
SF3B1 PPP1R8
ITGA5 NISCH
CYP27B1 NCOA6
PRNP CNTN1
CASK SDC2
MCM7 GSTK1
CUL3 CASP8
FLG CSNK2A1
HSPA5 POLR3H
DSPP PRKCE
MYC MAPK1
KIF23 BIRC6
CBX1 LBR
RANGAP1 TRAF6
SRF NFYA
ABL1 PLCG1
BIN1 SNX4

GAPDH SERPINB9
NKRF RELA
CDH2 GRIK2
WDR77 DPEP2
RPS27AUBASH3B
TAL1 SSBP1
S100P AGER
FSHR S100A10
SFN APLP2
RPS6KA5 HIST1H4I
DNTT PCNA
SMEK1 PPP4R2
PML HNRNPU
STAT3 CXCR4
EDN3 CMA1
PLA2G1B BGN
DNAJA1 TAB2
UHRF1BP1 UHRF1
UQCC SETD1B
CCNA2 SKP1
MAGEA11 PSMF1
MARK3 ATP6V0C
CUL2 NEDD8
TP53 HSPA5
MME PIK3CB
CD247 GRB2
CD19 GRB2
FRMD6 TSC22D4
STAT5A BMX
CD5 PRKCA
HLA-B PSMD4
EP300 ANAPC7
AMPH CLTC
LGALS8 ITGA4
RIPK1 LRDD
HOXC11 SMAD3
UBE2E1 HERC5
ZZZ3 MAML3
PXN PTPN11
MDM4 CSNK1A1

ARL4D TLE1
GNG11 GNB1
TLE1 ATN1
DAXX SPECC1L
GP1BA GP9
PRKACA CFL1
GRID2 GRIA1
GRID2 GRIA2
PIAS1 MSX1
CCNA1 PTK2
MAP2K7 MAPK8IP1
MSN BID
BAG6 CDK16
PXN TUBG2
SEPHS1 C9ORF9
SNX4 LEPR
VHL SRPRB
NTRK2 DOK5
DFFA YWHAB
PRDX2 ECSIT
PPOX HAP1
SLC22A2 POU2AF1
RAC1 DEF6
HIVEP2 BTRC
YWHAQ LARPI
IGSF21 CRCT1
SMAD3 CLASRP
CDC73 CTR9
RDBP VAMP3
TRAF2 USP31
JUP CDH3
HCK HNRNPK
MSN CASP10
PEX10 PEX2
TGM1 RARRES3
RHOG KTN1
PRKCA GPM6A
TNFRSF4 TRAF1
GLI2 SKI
MCC MCM6

ZW10 ZWINT
SNRPD2 MEPCE
MGEA5 CYLD
C1QA HIPK3
USP19 CDK1
ARPC4 ACTR3B
NFRKB RUVBL2
RAF1 PHB
CSNK2A1 FKBP4
WAS ACTC1
FKBP4 MUM1
CCDC14 CEP63
STAT3 ALK
AP1B1 AP1M2
VASP ACTA1
MAP2 MARK1
APRT MLH1
PTPN1 CRK
HDAC3 YY1
LAPTM5 UBAC1
POU2F1CEBPE
PTPN11 SIGLEC11
HNRNPK MEPCE
MAX EP400
NR3C1 TP53
SFN JUB
SUMO2 USP28
HLA-B VCP
HLA-B SSR1
IRF5 CREBBP
PPARG OPTN
THOC7 MED18
FOS GNL2
ZNF518A ATF7IP
HAUS6 HAUS4
CCDC85B PSMF1
MXI1 MAX
TRAF2 QARS
TSN ATG5
CHMP6 SNF8

IL1R1 SIGIRR
TNPO2 RAN
EML4 NEK6
KIT PTPRJ
PTPN9 NSF
UBE2A RAD18
SMARCA4 HDAC2
USP8 RASGRF1
HSPA4 PPP1CA
EIF2S1 EIF2B2
HOMER1 SHANK1
SRRM1 PPIL1
GNB1 GNG3
ACP1 SFMBT1
PPP2R1A PPP2R5A
ADCY5 RGS2
GNB1 GNGT1
SUV39H1 CBX1
XPOT CAMKK2
ABL1 HSPA4
SEPT4 SNCAIP
PIN1 MAP1S
ARRB2 RPL7L1
YWHAQ DAPK1
PAK1 ZNF564
HSP90B1 TNFRSF1B
NUP153 TNPO1
ADD1 ID3
RPS14 MAP3K1
TCF3 CALM2
TRAF2 DTNB
EPB41 BCAT2
SMARCA4 CREBBP
PLG SERPINF2
CDK2 RRN3
TCF4 CALM2
TEC PTPN12
HCFC1 HCFC2
NUP214 CLEC4G
LCP1 PRKACA

COL1A1 ITGA5
MMP3 TIMP3
SPTLC1MAGED1
PLD2 ACTB
ALDH3A2 MAP3K10
RAB1A RABAC1
UBE2D2 MUL1
NFKBIE CUL1
HOXB9 SPZ1
ERCC1 UBL7
GRIN2D CDH2
NCAM1L1CAM
PARK2 YWHAH
E2F3 MLL2
TRIM27UBE2H
MPND USP36
ARAF COPS3
MT2A ITGA6
APAF1 AVEN
STAT6 WNK1
DAND5 NFKB2
ARPC1B ARPC2
ESR1 MTCH2
CCNC MED8
PIN1 KIAA1429
CDK1 AMPH
MAX MXD4
CDC40 SMURF1
RARG MAP6
GNB1 GNB2L1
PPP4C REL
PFDN1 MAP3K3
FGFR3 RNF130
GNAQ CCR5
SCNN1D COMMD1
CDKN1A PCNA
SMNDC1 RRP1
POLR3B POLR3H
GKN1 TP53
PPP4C GEMIN4

MARS MDM2
PARD3 PVRL3
CBFA2T2 NEUROG1
FYB VASP
SPHK1 TRAF6
TOB1 CNOT10
CLN3 NUP205
MGST1 COBRA1
IAPP PCSK1
TBX3 TOLLIP
EPS15 RAB11FIP2
RPL23 MDM2
ETS2 STAT5B
TCF3 ASCL1
MTHFD1 TRAF6
CTGF NOV
SLC38A1 APLP1
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TRIM27MED21
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CDK1 AR
HDAC4 GCM1
MAD2L1BP IGSF21
JAK1 SYK
RBPJ MAML1
COL1A1 PRELP
MKI67 MKI67IP
TP73 C22ORF28
TNFSF14 TRAF3
P4HB PACSIN1
PPP2R1B PPP2R5D
YWHAZ SAMD4B
RAD52 TPRKB
SRF HDAC4
UBE2E1 RNF2
ABL1 TMPO
MAP3K7 MAPK14
NRP2 SEMA3C
ZBTB3 ANKRD2
DDA1 VPRBP

RIPK2 CASP1
POLR2K MED10
RAP1GDS1 RAP1A
ARPC2 ARPC3
MAP4K4 PACSIN2
CSDE1 UBE2I
SMAD3 DACH1
MAP3K7 CDC37
WBP4 SNRPB
SERPINA7 SLC16A2
SMARCA4 IKBKE
ITGB1 ITGA11
TUBB HTT
KDM2AMAP4K5
SH3GL1 SH2D4A
NCOR1 PML
SH3GLB2 PA2G4
LCK PTPRG
LCK PTPRZ1
NUP98 CREBBP
PXN ARHGEF7
SLC9A3R1 PDGFRB
APC RPS27A
HES1 SIRT1
CATSPER1 KRTAP4-12
LCK PTPRB
PDPK1 AKTIP
TWF2 LYAR
TBP IKZF1
GIPC1 TAGLN
KALRN RAC1
SIN3A KLF16
PLK1 BICD1
TNFRSF14 HSPBP1
SFN ITCH
MED8 MED29
TGIF1 WWP1
PXN GIT2
FKBP6 NME7
PTPN2 SFN

SNAPC4 BRF2
RAD51 OBFC2B
YWHAZ WNK1
MCC SMC4
MYB CSNK2A1
SMAD1 ANKRD27
EFEMP2 BAG6
TRIM27HDAC1
SRSF4 SREK1
SLC8A3YWHAE
TRIM24PGR
UBE2D1 TRIM31
RPF1 MAP1LC3C
SRC CKAP5
GNG7 ACP6
BIRC5 UFD1L
AMFR UBE2D3
PEX19 PEX3
CDC20 MAD2L1
FLRT2 FLRT1
MAP2K7 MAP3K12
HSPA9 YWHAG
TRIP10 ASAP1
ADRBK1 AGTR1
HDAC3 PCIF1
TAF10 SETD7
TBL1X EMD
HOXA5 SMAD1
TOMM20 PPHLN1
DEPDC1B UIMC1
FYN FNBP4
ACTG1 TRAF1
SKP1 GCM1
AMFR UBE2N
MECOM MAPK6
DSPP NFKB1
ST13 PCBD1
EEF1A1NEU1
AHCYL1 ITPR1
RAB11B RAB11FIP5

SLC9A3R1 SLC9A3
NCK1 RASA1
PRPH2 PRPH
MAPK3 FCGR2B
GSN VCL
SREBF2ZMYM2
ATN1 ALG13
PSMC3 PSMD13
HERC1 RNF11
UBE2H DZIP3
HSPA9 SUMO2
USP11 KEAP1
HGS ATP2A2
SOS1 SRGAP2
HSP90AB1 C12ORF10
XRCC1 NCAPG
STAT1 CTNBL1
AKT1 APPL1
CHRM4GRB2
GABARAP PGS1
HLA-B HLA-C
SCARF1 SCARF2
HDAC1 BCL11B
FASLG DLG2
CEBPB SMARCA4
SEH1L NUP85
CEBPB SMARCA2
RAD51 EVL
NCOA1 NR1H3
GFER ASCC2
FKBP3 MDM2
DYNLL1 EEF1A1
CREBBP EWSR1
KHDRBS3 SRSF9
UBE2V2 SUV39H2
SMARCA5 DNMT1
AVP11 IKBKG
RBM39 SRRM1
AP1G2 XRN1
TBP SNAPC2

CDC42 RPL8
CXCR7 GRB2
PARK2 PARK7
TUBA1A USP32
SNRPD1 SREK1
SOCS1 CXCR4
KPNA1 LMO4
RBL2 LIN9
MEF2C MAPK14
GPAA1 EIF3E
CHRNA4 UBQLN1
EIF1B PARD3
VAMP7 STX1A
ARID4A RBBP7
EIF3G EPB41
S100A4 BAG6
ABL2 MED28
CCL18 TLE1
SMAD3 GTF2IRD1
RASA1 AFAP1L2
CACYPB PRKAB1
CAPNS1 CAPN1
SF3A2 KIAA1967
IRS1 DDR1
CDH1 PRKD1
TOB1 CNOT7
RAB3D RPH3AL
CHRNA1 CHRNG
MYC MSH2
NONO RIPK3
MYC MATR3
MAPK10 STMN2
CREB1 CAMK2A
PPP2CANXN
H2AFZ INCENP
CDK1 CEP55
CASP4 USP9X
FGF2 FGFR3
GIGYF2RBM12
MAP2K7 EXOC7

DOCK8 RHOJ
RPS27ANPDC1
ITGB4 PLEC
MAP2K7 MAPK8IP3
GKN1 RIPK1
ETHE1 RPS27A
TIFA NIF3L1
GLRX3 EFEMP2
MAP4K4 RPRD2
BCL6 WNK4
HIST1H3J UHRF1
TNFRSF14 UGGT1
RGS12 GRM5
KIF1C CSNK2A1
ASAP2 UBC
AXL SHC3
UBE2D1 TRIM8
ITGA6 BIN1
YWHAG FAM65B
PLCB3 PRKG1
ITGA4 CD82
HIF1A SENP3
TNFSF11 MMP3
C8ORF41 PIH1D1
TUBA4A SIAH1
RAC1 CYFIP1
LDHB YWHAZ
EXOSC7 MPP6
PIAS4 MAP1LC3A
SMAD7 PARD3
EDF1 TAF1
HSPE1 TRAF6
FAM46A BCCIP
AKR1B1 PAX7
YWHAG FAM82A2
VHL SUPT16H
PSMA3 PRRC2A
AKR1B1 HLA-B
CREB3 MALL
OTUD1 FLNB

CYP11B1 CYP11B2
SMAD7 PARD3B
CTTN CRB2
HTRA1 PARD6B
STAT3 PCBD2
MYB ZFHX3
TNFRSF4 TRAF3
TUBB4 KIAA1543
NGFR NDN
PTPN13 TRIP6
HSP90AA1 LASS2
ZMYM3 HDAC2
TFRC HLA-B
ARF6 DHX9
CDC25B MAPK14
POLD2 WRN
PRKCA GABRR1
SNAP23 VAMP7
FLT1 VEGFB
APP CTSD
FLT1 PGF
HP CD22
YWHAZ MEPCE
ACTN1 KAT2B
LCK PIK3R1
DLG4 GRIN3A
HNRNPR CDK9
LSM1 EXOSC6
SLC9A3R1 TRPC4
ESR1 NCOR2
ANXA2 VHL
HDAC1 BHLHE41
MSN SPTAN1
SMTN SUMO1
DR1 TTF2
AXL PIK3R3
TFCP2 EIF3A
CDK4 CSTF3
RIPK1 RIPK3
VHL PHF17

RXRA PPARG
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TRAF1 MAP6
CHMP2B TRAF2
GNAI3 MTNR1B
ROBO2 PPP1R1B
MAP3K3 DIP2B
SMAD3 PIAS4
LMNA PRKCA
NCK1 CD247
SRC BRCA1
FOXH1 SMAD3
RBL1 EMD
PSMD4 TCEB1
ADAM10 EFNA2
STIP1 FKBP5
SYN1 AMPH
TGFB1I1 CRKL
EWSR1 TRPV5
VPS36 VPS25
SRP72 MEPCE
WIPF1 PACSIN1
FASTK MDFI
SIP1 U2AF2
SRC MAPK15
POLR2E ITCH
ATG5 MAP1LC3B
FYN MCAM
FYN SOS2
PELI2 UBQLN4
MTX2 SHC1
IGF1R PTPN11
CDC42 RPS27A
RECQL5 POLR2C
TRAF3IP3 STK24
SPTAN1 CEP63
RECQL5 POLR2E
HSPA1B HSPD1
PPL CASP6
DAG1 AGR3

MAPK1 KSR2
FYN SOS1
MAX ZFR
MYC ADAM9
F2RL2 F2
SYT1 STX2
RUNX1 MYST4
EWSR1 GPBP1L1
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TRIP13 KIAA1609
PIK3R2 CCR5
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BRMS1L HDAC2
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CSDA MEPCE
SMARCC2 CHD7
BTBD2 BTBD1
MSL1 MSL3
IKBKE SMC4
SFPQ PTBP1
SMAD1 ZNF423
HAP1 FAM173A
PAX3 MEOX1
PAX3 MEOX2
FOS MTERFD2
LYN RASA1
HMGB1 HES1
CD247 ATXN2
BIN1 MYC
CDK2 BRCA1
PPP1CASKP1
CDK5 CABLES1
ZNF7 MAPK3
PTPRG NSF
KHDRBS3 PSMF1
PLCB3 PRKG2
NRF1 PPRC1
PIK3R2 WASF3
SS18L1 TCF7
PPP3CCABIN1

SRGN CD44
EDARADD EDAR
UCP2 YWHAZ
OBSL1 TTN
CEP290 MAPK10
APOA2 APOF
CREB1 FHL5
ARRB2 CDC42
SET HIST1H2BA
PCMT1 VHL
MAP1LC3A TMEM160
GAS7 HNRNPU
TRAF2 CYLD
CTNND1 SQSTM1
SPARC SDC2
TOB1 RPS27A
RPS11 NDN
LRPPRC IKBKG
APOBEC1 APOBEC2
NCOR1 GTF2B
DGKD MYH2
KCNJ4 DLG4
PUM2 NANOS1
ATN1 LYST
ORM1 PIK3R3
MCC DCUN1D1
PPP2R1A IPO9
CIITA HDAC4
BLM BRIP1
GH2 GHR
SNCA SQSTM1
UNC119 ZFP64
GRB2 ZNF311
RGS20 GNAZ
ATP5A1 ATPAF1
PIK3R1 PPM1A
CDK2 BRCA2
SF3A3 CCDC85B
PRKACA RASGRP3
USP48 USP21

POP5 BVES
ENSA ARIH2
AR RUNX2
HGF LCN2
CKM TRIM63
GIPC1 MCM7
RPL7 NEDD8
EEF2 DISC1
PPFIA4 STAT1
GUSB PRKACA
SEC14L3 PSMB8
CCT3 CDK9
CHRNA4 VSNL1
TFF1 UBQLN4
TRIM25 STK38
ZNF23 ZBTB9
PHB SMARCA4
S100A4 S100A1
PHB SMARCA2
HSPA5 TMEM62
APBA1 LIN7B
APOBEC1 DNAJB11
PRKCB MARCKS
ZFYVE9 ZMYND8
KRT7 KRT13
LCK MED25
PRLR TEC
TP53BP1 RNF168
CASP14 CASP10
PTN CDK5RAP2
SYNE1 DTNBP1
TBC1D4 DDX56
CYCS FTSJ1
CASP7 MEF2A
GATA1 SMARCA4
CRK DUSP15
DISC1 SNX6
GAPDH HTT
HNRNPL PCBP2
ARIH2 IL4R

PSMD3 FTSJ1
XRCC6 PDX1
YWHAQ ARRB1
NDUFA7 PRKAB1
TRAF2 CASP8
APITD1 DEC1
GRB2 GLTSCR1
RBX1 FBXO3
PARK2 CUL1
UBE2D1 RNF167
TUBA4A MAP1LC3A
C6ORF15 SV2B
B2M LILRB1
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AR CDC25A
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INHBC ACVR1
IQGAP2CAMKK2
YWHAG ERBB2IP
UBE2L6 ARIH1
CREBBP TGS1
NFKBIE IL1A
STX4 STXBP4
TRIM37EWSR1
YWHAZ DENND4A
SQSTM1 TRIM63
ETS1 LAS1L
GNAI2 CCR5
NOTCH1 DTX1
AKT1 YWHAZ
S1PR1 TRIP6
USF1 WDR5
SMARCA4 CHMP5
RPAP2 INTS4
BSG UBE2A
CBX2 RYBP
KCNA5 ACTN2
SIN3B WHSC1
KCNH4 EP300
TNFRSF1B XPNPEP3

ABCD3 MEST
STAT6 SND1
ETS1 PPME1
FN1 SDC2
MCC OTUB1
RBBP5 HCFC2
SNCG GRK1
MAFG NFE2
SLC25A12 PHLDA3
NEBL MYPN
IKBKE HSDL2
HSPB1 NFKBIA
NFYA PAPOLG
CREB1 ZFP106
UNC13B RPH3AL
COX5A HTRA1
MAP4K1 CARD11
GRB2 NCKIPSD
USP53 TRAF2
PRKCE GPRIN1
PTN MLLT3
ZG16 UBQLN1
GRIN2D TRAF3
HSP90AA1 TJP1
YEATS4 RUVBL2
HSP90AB1 PSAT1
GRIN2D DUSP4
CREB1 HIPK2
PIAS4 SNIP1
FOS NCOA2
DR1 NFIL3
LASS2 NDN
SMAD2 DNAJC7
RPS6KA5 CEBPB
GRB2 SEPN1
TAP1 PSMB9
PRKCA GRM5
USP12 DMWD
CXCL2 PIK3R5
OGG1 CHGB

CBX5 PARP2
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SEC24DCDK16
SCN4A SNTA1
HNRNPAB DEDD2
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RELA IRAK1BP1
PRKRA EIF2AK2
PPP3CAMYOZ2
ZFYVE9 NIT1
F2 C6
FHL2 DPF2
RPN2 EZH2
ECE1 MYOC
YWHAZ PNN
MED10 MED28
TBC1D1 UBE2E2
MED30 MED28
YWHAE HIST1H3J
TBP NFYC
THBS1 LRP2
CCND2 CDK6
CCND2 CDK5
MTNR1B GNB4
YEATS4 RUVBL1
FHL2 CREBBP
TP53 MTHFSD
PDE6G TRIP10
CBLB TNFRSF11A
BGN SGCA
COPE COPA
GSN ACTB
SNAPIN CSNK1D
ELF4 FBXO7

POLA2 XPNPEP1
EGFR SNRPD2
HSPD1 SMAD2
ARRB1 KHK
SDC1 MMP14
FBXL15HEXDC
C7ORF64 TRIB3
IGJ IGHM
MYD88 TLR8
COPE COPB1
SMARCA4 MPP6
UBE2L3 TRIM39
DAND5 RNF19A
PIWIL2 DDX4
EIF1B FSCN1
MDM2 E2F1
VCP DERL1
MYCBPPTCHD2
CHFR UBE2D4
IFIT5 TMEM66
KPNA6 RAC1
MAPK1 TNFRSF25
SKIL HEYL
SNX4 PDGFRB
DSG2 PKP2
TGFB1 LTBP4
RARA ZNF423
EXOSC9 EXOSC6
CDK2 VHL
DCK DDX19B
ZFYVE20 EHD1
DYNLL1 ZMYND11
HBB UPF3B
ANK2 NRCAM
RAD23B RPS27A
MAPK3 RPS6KA1
SYNCRIP SYT2
DDX5 YWHAG
SRSF5 SMURF1
CREB1 HIPK3

PPARG ZBTB9
TERT MKRN1
ZFP36 HOXC9
FTH1 GOLM1
COL1A1 COL1A2
MFN1 TMBIM4
CTNNB1 PYGO1
DNMT1 YWHAZ
PAWR THAP1
RBX1 SKP1
SLC9A3R2 LPAR2
SMAD3 ZMYM2
HDAC3 PPA1
LDB2 LHX4
UBE2I GCM1
RECQL5 PLK1
RRAS CRK
MYC HEATR3
WASF1 ABI2
CCR1 PLP2
ADRBK2 GIT1
TRAF3 SMURF1
GOLT1A TMEM120A
USP7 MARCH7
MEF2C CCDC57
SETDB1 CBX8
PRKAG1 PA2G4
GNL2 G3BP2
TRAF5 MAP3K14
VAV1 TUBA4A
FXR2 RBPMS
CALM2 ESR2
DNM2 PTK2
LGALS3 C1GALT1C1
EGFL7 LOXL2
GTF2F1 BRCA1
ENSA ABCC8
HSP90AB1 TAB1
DEGS1 EIF3E
MLL2 E2F2

NR2F6 NR2F2
SMAD2 TGFBRAP1
SKAP2 FYN
KIF5B YWHAG
PTPN12 NEDD9
YWHAG SRPK1
HSPD1 IKBKG
BRCA1 PALB2
YWHAG PPP1R9B
TTBK1 HEATR1
EPB42 EPB49
PRKAR1A AKAP1
CTSS SERPINB3
MYST2 CDC6
CALCOCO2 SHC1
RELB RUVBL1
PPM1B KRT18
RBX1 ACTG1
RBM42 PCBP1
PRKCA HABP4
CASP2 LRDD
MYST2 BARD1
TRIM23 RIBC2
PRKAR1A ANP32B
CBX5 HIST3H3
NR3C1 ANP32A
COIL NIF3L1
ADORA2B SLC9A3R2
YWHAQ TJP2
NEUROD2 PKN1
USP11 TRIP12
CALM2 DLG3
SYT2 WNK1
EIF3E NDRG1
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SMAD4 LEF1
PDIA3 DCBLD1
GYPC PFKM
TRIM28 RUVBL2

TAB1 TAB3
CAPZB MEPCE
DDX5 MEPCE
KCNAB2 SLC39A1
JAK2 PTK2
TPD52L2 TPD52L1
HNRNPU PRMT1
CBX1 INSL6
KDM1ACDC90B
KRT20 ZC3H14
EPN2 EPS15
HSP90AA1 NR3C2
AP1B1 CABIN1
ACTB XPO6
TRAF2 TANK
SNAPIN LAMC1
USF2 PPARGC1A
CASK ID1
CASP5 PPHLN1
DNMT1 DYNLL1
PLCG2 KDR
STIP1 CAMK2D
ENY2 USP22
RAB3D RIMS1
DLGAP1 DLG2
EEA1 RUVBL1
IRS4 MAP3K1
SNCG DDX5
HSP90AA1 MMP2
IRS4 PTPN11
FYN ZAP70
FYN SYK
NF1 SDC2
CTNNB1 TRRAP
CDC5L PRPF19
RAB38 SMAD3
NAP1L1 RAC3
ENPP1 SQSTM1
TP73 JPH1
OGT FOXO4

ZNF426 NINL
NUP93 NEK6
SOCS2 SOCS3
SLC38A1 UTP14A
PDS5A RAPGEF2
POLR2C CCHCR1
TARS TRAF6
APBB1 WASF2
ARHGDI1 SH3GL3
HDAC3 CNOT2
GIPC1 IGF1R
ERBB3 PIK3CA
SRC MICAL1
FASLG TRIP10
TGFB2 PAK1
TGM2 SMAD3
MAPK1 MAPK8
MEN1 RELA
TNFRSF1B PFKP
TMED10 NCSTN
HCFC1 MLL
HLA-A HLA-C
FBL RUVBL2
KIT SH2B3
MAPK3 PPP1CA
FBL PIN4
PABPC1 NFKB2
HIST1H3J NR1H4
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ATR WRN
AKNA WNK1
SNAPIN MUTED
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TUBB2A LAMA4
AIRE SNRPD3
SELE PXN
C11ORF16 EWSR1
TUBB4 TAB1
TEC ARHGEF12
ATP5A1 PSMD4

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ARAF EFEMP1
FLNA ARRB2
PSMC5 RORA
MBD5 KIAA1549
VASP RAPH1
UBE2N ZNRF2
RAP1A RASIP1
TFAP2A CASP6
CSDA HAUS6
FOS HSP90B1
MAPK8 DUSP7
RARA CCND3
RAB38 SMAD2
PSMD3 C20ORF24
RAB38 SMAD1
TP73 DAXX
PGAP3 CRY2
PSMD4 NEDD8
MID1 UBE2D1
PRKACB TNP2
TP53 CDK9
FBL RUVBL1
NFATC1 ZNF225
PSMD2 NFKB2
SS18L1 ANKRD22
MON2 GGA1
EIF3F EIF3B
CDC42 SYNE1
BRCA1 CSNK2B
CYP4A11 PIK3R5
PSMD2 NDRG1
CDK1 RAB4A
CHRNA4
ATXN3 USP13
ITGA2BAUP1
PIN1 RBBP8
SRC PRKCI
BAG2 MAP3K14

PAX3 RAD23B
COL4A3 TGFB1
PKNOX1 ZBTB3
CTNNB1 RAPGEF2
F2 IGFBP3
FXR2 AP2M1
SUMO3 CNTN2
LRP2 ANKRA2
TAF10 PRPF31
TRIP12 CARNS1
XRCC6 CRAMP1L
CCND3 MCM10
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MLL CXXC1
MYST2 PACSIN1
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F7 DMWD
RBFOX2 ESR1
PCGF2 UBE2Q2
MYCBP2 WDR48
PRMT3 FBL
EIF2S1 EIF2AK1
HSP90AB1 IKBKG
HLA-B FKBP3
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ATN1 MDFI
CLDN1 MMP2
TADA2A EXOC8
RASSF9PAM
CSNK2A2 PIN1
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TBP BRF1
NFKB1 FBXW11
PCNA CCND3
ACTB BBS4
HLA-B PSMD1
RGS20 GNAI1
VPS13DMADD
WNK1 WWTR1
VWF HSPA5

UBR5 SMAD2
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PARP1 PRKDC
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UBE2D1 TRIM35
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CSNK2A2 EIF4EBP1
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OXSR1 FTSJ1
CSNK2A2 HDAC1
PDPK1 AKT3
PDGFRB PTPN11
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TAF11 TAF9
TRPM2 ITPR3
NR0B2 NCOA3
CS CRYAB
TGIF1 CTBP2
RRP12 DDX56
CENPF SNAP25
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ZNF225 PSMA3
PSMC3 HIF1A
ACTR2 TNIK
NOL3 CASP8
NCK1 ECT2
SIN3B ZBTB16
ACTN4 HDAC7
USP32 VPS35
CCND1 GSK3B

PLOD3 DPPA2
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HDAC3 TAB2
MYOG ELSPBP1
MYC SKP2
KIAA0182 NR2E1
ATP7B DCTN4
CD1B B2M
LRSAM1 UEVLD
TRAF3 EDA2R
KCNH4 CTNNB1
SYT1 ZDHHC17
GATA2 MAPK1
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PEX11A PEX19
ARL3 RP1L1
RRAS2 SMAD4
G3BP1 NOL6
PDGFRB PDGFRA
SH2D3C CARD11
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NEFL GPRIN1
SLC9A3R1 SLC4A8
SMAD4 OCLN
TARS PRKAB1
XRCC1 CCNO
SLU7 PPIL3
CDK8 CDK9
POLR2L MED28
TF IGFBP3
DRD3 NCS1
GRN ATN1
ATP2B4DLG4
CAPN1 FHL2
BLM FANCD2
C7ORF64 CDK5RAP2
MYC PFDN5
RFX3 RFX6
PSME3 MDM2
RPAP3 PIH1D1

CNTN1 TNR
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IGF1R IGF1
KRT85 PLEKHB2
POU2F1STAT5A
CCT4 MAP3K1
CLDN4 TJP1
GAS7 MAP3K3
SNX3 EPB41
FKBP4 DDA1
MAX RANBP9
RELA TIMM50
PTPRM PCSK5
TCP1 TUBA4A
EIF3A WDR48
DSCAMPAK1
LRPAP1 LRP2
GSTM4 MED31
ITGA5 ANGPTL3
RNPS1 DHX38
GYS1 OTUD5
TLE1 LEF1
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LRPAP1 VLDLR
EIF1AY ATXN1
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CPSF7 EWSR1
RARA NCOA3
LCK MUC1
CYCS TRAF6
FGFR2 CACNA1D
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LDOC1 POLL
E2F7 RUVBL1
HMGB1TAF1
SH2B2 SYK

BRMS1 ING1
RPS6 NDRG1
LDOC1 PSMF1
PYGM MAP3K3
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SMAD2 LITAF
NR3C1 MDM2
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UBE2I PDLIM7
APBB1 LRP1
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DPEP3 BCL11A
GGA1 RNF11
YWHAB SNCA
TAF11 TAF12
MLH1 ATAD3B
PSMB6 PLK1
DVL2 DAAM1
UBA52 UBE2O
TNNI3 PAPP
CIAO1 CCDC7
TUBG1 TUBGCP4
CALCOCO2 GABARAPL1
IGFBP1 MMP26
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EIF1B EIF3K
GSK3A PRKCZ
GABARAP RNF123
RFXANK ACTR6
TRAF2 TNFRSF12A
THBS1 TNFAIP6
CSTA CTSB
TECPR2 GABARAP
TRIM27UBE2O
SHC1 RANBP9
SRF KCNH4
IPO7 TNFRSF1B
TPR YWHAQ

EXOC3 DLG3
APITD1 FANCB
LZTS2 NINL
SLC3A2SLC7A11
UBE2I RNF111
PTPN11 MVP
ZNF423 EBF1
GRB2 CELSR3
HSPD1 GRB2
ZNF764 SUFU
BCL9 CDC73
PRSS23 NOC4L
KCNJ10KCNJ16
ACTA1 FGD4
RNPS1 ZC3H18
EXOC4 BIRC6
TRPC1 HOMER3
TKT VHL
MCC C4ORF43
FASLG MLL
PER2 CSNK1E
MYC MYCBP
IPO9 RPAP1
ELF3 PSMD6
DHX15 YWHAB
BCKDKRNF219
MCRS1 TTN
C12ORF35 EXOC1
MTOR EIF4EBP1
PPIA PPP3CA
LMNA LMNB1
EED SUZ12
HSPA14DNAJC2
TSC22D1 FANCI
SRSF1 DIDO1
FABP3 VPS28
INHBA INHBC
MYST2 HIST1H3J
MED30 PCBD2
PSMC2 PSMC4

PLSCR1 EFEMP2
SUPT7L CDCA4
BCL3 GTF2A1
ARL3 UBR1
DFFA MCC
TBP HSF1
PRKCB ANXA7
SPRY2 TRAF2
CUL2 TCEB1
NFKB1 ESR2
MED26 POLR2H
UBC CYLD
CDC34 RBX1
RTCD1 BCKDK
BTK TLR6
CD3D CANX
ARF1 PLD2
SAV1 RASSF1
CUL2 TCEB2
MLNR MLN
TGFB1 KLHL35
TSR1 LYAR
MAPT HSPA4
PPP4C RELA
CYC1 CLN3
TNF PTPRZ1
IGF1 IGFBP5
RPTOR MLST8
HDAC3 STAT3
CXCL10 CXCR3
TIMM23 TIMM50
IGF1 IGFBP6
GNAS TTC1
RIPK1 TRADD
PRKAB2 MAST3
EPB41L2 YWHAH
HDLBP DHX9
TUBA3C TRAF6
UBE2H CBLC
ARHGAP44 HN1

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CALCOCO2 C16ORF48
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YWHAB WDR20
ACVR1 TTC27
TTBK1 TTBK2
TP53 MSH2
KRT82 DNPEP
MCM3 YWHAZ
HLTF UBE2Z
MCM6 ING5
GNAQ PLCB2
ZNF225 CREBBP
ATXN3 KAT2B
SUMO3 SOX10
ESRRA MACF1
MGRN1 UBE2T
BCL2A1 BOK
PRKAR2B AKAP4
CAT SUMO4
EIF1B CDC37
CALM2 TANK
POLR3A GPN1
TAF11 LZTR1
TUBA3C RIPK3
LDLR HSPA5
ENTPD1 RANBP9
ANXA1 SUMO2
GABARAPL2 ATG2A
EWSR1 VPS72
FYN KHDRBS1
MAGEB2 USP7
SMARCA4 SMARCD2
CCDC113 GIT1
PPP2R1A PLA2G16
SMARCA4 SMARCC1
PSMF1 FBXO7
SDHB MCC
SMARCA4 CHD4

BBS4 FHOD1
F2 SERPINB8
YWHAB OTUD7B
KDR IQGAP1
PGK1 SH3GLB2
AHR RELA
UTRN USP21
CEBPB MED23
SMAD2 STAG1
LYN GRIA3
TRIM37ZNF417
RBX1 FBXO11
PPP2R1B PRDX2
ADD1 ID2
IQGAP1NFKB2
RIPK2 IRAK1
SGK1 MARCKS
TAF4 HTT
PPP2R3A PPP2R4
HIVEP1 ATXN1
TCEB1 PAN2
UPF2 INTS6
MYC RAF1
GFAP ROCK1
THY1 LCK
BMPR1A FSTL1
PSMD7 IKBKE
MAPK3 RPS6KA2
PSTPIP1 PTPN12
CD28 ITK
RPAP2 ITCH
FOS BAG6
SNAP23STX11
SHBG DES
MAN2B1 SMAD9
PLD2 GRB2
U2AF2 SRSF11
BACH1 HDAC1
LMO4 MERTK
ID4 GRB2

HLA-F B2M
MAPK1 SNCA
SETDB1 DAP
DLG3 GLS2
BCL3 NCOA6
PAPOLA KPNB1
HSP90AA1 AR
PIP4K2A RAC1
HINT1 TRIM29
ARID1A MLLT1
DBI TSPO
GADD45G GADD45GIP1
PCNA PPP1CC
THY1 FYN
FOS RPS6KA1
GTF2I HDAC1
ADCY8 PPP2CA
POLR2E GTF2B
TRAF2 TNFRSF14
CDC5L TTF2
SMAD2 PREX2
CLOCK SIRT1
RABIF CCBL2
TOP2A HDAC2
EGFR MAPK14
PTPRC GRIN2B
MRPS14 IKBKE
IKZF1 IKZF3
MSN TSC1
RPL23 WIBG
SP3 HDAC1
PRKAR1A MAP1LC3B
MAGOHB AMOTL2
TRIM27 UBE2D2
NPM1 HIST3H3
TLR2 PIK3R1
MET FAS
TBXA2R PRDX4
HSP90AB1 TRADD
NCK1 ISG20L2

LAP3 DDA1
STAT5A MAGEA12
OLFM3 MYOC
CNBP DHX9
OSBPL10 CLPB
PRKCA DDX5
BCOR CPNE2
EFHC2 EXOC8
AKR1B1 MCC
UBE2E1 POLL
HNF4A MED16
HSPA5 RUVBL2
IKZF1 IKZF2
USP11 CBX2
TOP3A APITD1
GLI1 YWHAE
KLF4 KCNH4
KIDINS220 MOBKL3
BCL2L11 MEX3D
SCRIB GIT1
GDI1 PACSIN1
SLC38A1 FUNDC2
PAFAH1B3 EEF1A1
CIITA ZXDC
SERINC3 PTPLAD1
EEF1A1 ANKRD24
PRDM1 HDAC1
SMAD1 INPP4A
CS CRYAA
ACTA1 XIRP1
IPO5 RPL5
ITGA5 AUP1
C7ORF64 FXYD6
SERINC3 PHB2
ATN1 PDCD6IP
H3F3B RNF41
CD28 NSF
SLC27A2 YWHAZ
CKMT2 UNC119
TIE1 ANGPT4

TCEA2 AKT1S1
COIL NUDT18
RBX1 KEAP1
MCM7 GIPC1
PPP3CAMYOZ1
PFKFB2GK
HUS1 STRAP
HTR1A S1PR1
HTT WDFY3
SMAD2 KIAA1109
PTK2 RHOU
ITGB2 ICAM3
UBE2I DEC1
CHMP2A EIF2B5
CCDC158 SH3GLB2
TRPM2 TRPC6
TP73 RPF1
PPP4C SMEK1
UBE2Z RNF150
TP73 YAP1
LMO4 ZNF675
COX6C GTF2F2
MYOD1CALM2
CCND1 TSC2
MYH10 TRPM7
CDKN2C COPS6
TRIP13 PLAC8
SUZ12 H2AFY2
HLA-B DNAJA1
CAPN1 BCL2L1
TNFRSF1B SERPINB3
FIGF ITGA9
MAPK8 RHOA
NUP93 BRF2
HSPA4 VCP
FGR CSK
MAP1LC3B RASSF1
ING5 PHF15
PIK3R1 MST1R
CHD3 CASP8

PTPRC SLAMF1
CDKL5 FYN
GRINL1A AHSP
DLG2 CACNG2
ATP2B2DLG2
DDX58 MAVS
AR DAP3
NFKBIA NFKB2
IL17RB TRAF6
CTNNA1 SOS1
DSC2 PKP3
PRKACA MAP3K3
GSN ARRB2
SF3A2 RETN
CRK RIN3
IQGAP1YWHAZ
WASL ACTR2
EEA1 GIT1
SMC2 NCAPD2
VCP NPLOC4
ACTC1 BRP44L
PAX1 MEOX1
PPFIA2 CDC5L
THRB RXRB
RASL11B EWSR1
ACTC1 KPTN
SHC1 CSK
HDAC1 DEC1
STX2 STXBP1
EFTUD2 SRRM2
FAM96B PHLDA3
KLK3 PZP
C5AR1 GPR77
PIK3R1 PEBP1
CUL1 KEAP1
FER CALM2
PAX1 MEOX2
MYB SUMO1
DVL1 SMAD3
TNFRSF10A TNFSF10

EIF5B CBL
PGLS EWSR1
PDLIM1 EIF1B
PSMD1 TNIK
APEX1 HDAC1
STAM PLCB1
DNAJB2 UBQLN1
YWHAB PARD6B
MDM2 SET
CEBPB EP300
IFT20 EXOC7
PTPN11 FCRL3
PSAP CD1B
CDK1 CCNA2
NPHS1 IQGAP1
SREBF2ZNF639
EIF3H CCDC85B
SEL1L UBE2J1
CDH1 EP300
ARAF CPS1
RPRD1B TUBGCP4
VIM ALS2CR11
MARK4USP21
ZNF76 SMAD1
BCL2A1 BAK1
ABLIM1 YWHAG
STAT1 MAPK14
ESR1 LMO4
C5 CPN1
MYH9 ASCC2
GIPC1 KIF1B
ARR3 OPN4
CHN1 CDK5R1
SDCBP PTPRJ
VIM ROCK1
CPSF1 GLIS2
BTG3 BANP
APEX1 HOXC13
VIM NFATC2
RFC2 RFC5

MYC MNT
PRNP CSNK2B
PIN1 ZMIZ2
CENPA CENPM
RPS6KA3 STK11
GRAP2 LAX1
SYK TRAF6
EMD LMO7
RUNX1 EP300
GSS IRF3
NR2C1 NRIP1
COPE RCHY1
RPN1 UBQLN4
ACTR1A SPTBN1
PGAP3 TIMELESS
CAD RIPK3
TP53 S100A8
TSC22D1 RBFOX1
CAMK2G CABP2
IL5 IL5RA
EWSR1 LILRA3
CUL4A DET1
ATAT1 GRN
RRAS2 TRAF3
KLHL9 USP25
ATG13 GABARAPL1
PLCG2 FCER1G
FCHSD2 C2ORF73
TGFB2 EIF3I
MDM2 POLE
ACP1 TNIK
TWIST1RABGAP1
PIAS1 PPARG
BMX RUFY2
SERPINA1 PRTN3
TP53 CDK5
CD2 CD2AP
TFG ARL15
TLE1 CRCT1
KLF7 FBXO38

EPB41 SPTB
NTRK1 MATK
ERBB3 PIK3R1
PPP2R1A HSF2
MCC UGGT1
GALT TRIP13
RAB11FIP3 RAB25
FGA ITGA2B
NOL4 CTBP2
TDG SLC7A9
CDC25A YWHAE
SEC13 CCNA1
SMC2 NCAPH
NCK1 POLR1B
SHC1 TEK
EXOSC2 MPP6
PTPN12 PTK2B
EIF1B EWSR1
EIF4A3 C3ORF19
CHEK1 AKT1
LRP2 DLG2
VIM XRCC4
FECH USP42
PRKACA TPH1
HDAC1 DACH1
ITPR1 TRPC4
MCM3 HLA-C
MAPK9 MAPKAPK5
HDAC4 MEF2D
TNFRSF10A BCL10
ZNF646 NINL
FOS ETS1
DLL1 CNKSR3
GRIK2 LIN7B
PDGFRB KRTAP4-12
CHGB OGG1
VAV1 ARHGDIA
RARA NR2E3
VAV1 ARHGDIB
SSSCA1TRAPPC6A

PTPRC LCP2
POLR2H MED19
MAX TUBA1A
RSL24D1 DNMT3L
PARP1 USP36
EPS15 UBE2D3
TRIM23 TRIM6
TSC22D1 TTC27
PRSS1 SERPINF2
TBP NACA
TESC HMG20A
IMPDH2 SUMO4
NBN XRCC4
PARP1 NEDD8
RPL5 MAP3K14
CRKL SOS1
IL10 IL10RA
NOP2 SUMO2
CYP27B1 GABARAPL1
KIF3A MAP3K11
RNF43 UBE2D4
USP45 ZFR
CDK4 CCND1
TNIK MRPS16
VARS VHL
PRKAR1A MAP2K5
TFAP2A CLTC
AKT1 GAB2
SLC3A2NEK6
BRCA1 MED23
UBE2I TOPORS
MTMR3EXOSC8
IL2RB IL15
AP2B1 ACVR1
CBX5 MBD1
TRIP13 SEMA4G
RAB11FIP3 RAB11B
PDPK1 PTPN22
YWHAG NEDD4L
RGL2 RALA

UBE2A ETNK2
EZH2 DNMT3B
MYBPHMYBPC2
STAT5A SYK
TPM1 ACTB
JAK2 PTPN12
GSK3A PRKCD
FSHR AKT2
RHOA RTKN
MYC TRIM28
FOXO4 USP7
GRB2 GARI
TNIK STRAP
MYB LIN9
HRAS ZBTB12
CASP2 PRKDC
TCEA2 EAF2
ARFIP2 ARF6
HNRNPU SREK1
ACTL6A MAP3K8
SLC38A1 MRPL9
ORC2 MCM6
RAF1 SRC
C9ORF100 RBPMS
LDOC1 UTP14A
MAP4K3 OSTF1
CTNNB1 AXIN2
NFKB1 STUB1
PLD2 CFL1
CHAF1A SETDB1
MYC NMI
EFS SORBS3
MC3R ASIP
PIK3R1 NTRK2
H2AFJ CENPA
BCAR3 RPS29
EIF1B NAA50
EIF3F EIF3M
FOXM1 ZBTB3
TRIM28SETDB1

MSL1 MYST1
ZBTB3 ZNF556
CUL4A COPS6
TAF12 TAF9
EMD SH3GL2
EMD SH3GL3
RALB CALM2
RPS6KB1 PIN1
TRPC1 CAV1
DBP HLF
NKX3-2SIN3A
CAD TRADD
KDM1BBAP1
LGALS3 CSNK2A1
LYN MATK
RPS27ASLC6A3
PRKCE GAD2
NANOS3 AKT1
KAT2B ONECUT1
FOS RPS6KA2
C5AR1 ARRB1
NADSYN1 UPF1
NR3C1 CALR
FGF7 DUSP3
PSMB5 PLK1
ADD2 CALM2
HCK ADAM15
MYCBP2 PTPN12
NCK1 FASLG
GABARAP UBA5
GTF2F1 TAF11
EIF2B1 EIF2B3
GOLM1 EIF2B3
EPB49 PROCR
LYN TEC
PTPRC PDGFRB
CASP2 CRADD
BACH1 PATZ1
RAP2A TNIK
MAP4K2 MAP3K11

EWSR1 DHX9
ACTA1 LASP1
UNC119 CDC42
RPS6KB1 EIF4EBP1
SALL2 ZMIZ2
FOXO3 H2AFX
TSC22D1 SFXN4
CREBBP TRERF1
AKT1 MAPK8IP1
RARA NCOR2
ARL3 INSL6
ARL14 SMURF1
MYC COPB2
PSEN2 RNF32
ADRA2B YWHAZ
EWSR1 C10ORF12
SNRPB SART3
SLC5A1PAWR
RASA1 CASP3
EWSR1 SALL2
CTNNB1 BTRC
NUP93 GIPC1
CASP9 CASP10
MYD88 CISH
ACVR1 STX8
KCND1 KCNIP1
AP2B1 ITSN1
ADAMTS2 PIK3R5
SNRPB EFTUD2
SMAD6 RPF1
ORC3 ITK
SMAD3 CXXC5
MED28 MED29
CCDC127 RNF11
TAF5L TAF10
TUBA4A HDAC6
PTGDS PTGFR
PARP1 LZTR1
FYN NKX2-1
NFKBIE NFKB2

EXOC4 DLGAP4
ETS1 C1ORF52
SSR1 BRF2
COCH IFI27
SEL1L AUP1
CHD3 SRRT
PAFAH1B1 NDEL1
ATG10 ATG5
SRSF1 DYRK1A
ADSS ACTA1
PRKAR1A CRB1
C2ORF18 NDUFA4L2
TP63 BTRC
S100B TP53
YWHAZ KLC2
VAV1 RHOG
TAF1C TAF1A
MSX2 PITX2
SRC GFAP
CDC45 MCM6
TGFB1I1 MAPK15
ESR1 POU2F1
RBM5 INSL6
DDX3X MAX
SERPINE1 LRP1B
DMWD CDC37
KIF5A YAP1
CLU TGFBR1
RBX1 ZC3HC1
SETDB1 THAP8
AIFM1 HSPA1B
PRKACG TNP2
MSH3 SLX4
MATR3 RUVBL2
YWHAB CRTC2
SOS1 SRRM1
EGFR FAS
LRPAP1 SMAD2
EP300 NEDD1
CSF2RB PTPN11

RHOA RHPN1
PARK2 SLC6A3
HIST2H2BE ARID1B
NR3C1 NR2F6
EGFR HIST3H3
CDK9 TUBB2C
CUL4A PHLDA3
CTNNB1 RUVBL1
SOCS5 ALK
GTF2I SRRM1
SAFB TJP2
DAB2 INPP5D
SIP1 SRSF1
MYC ACTB
AXIN1 HBM
BTK DAAM1
TRIM23LNX1
MAP4K3 COPS5
NDUFA7 ELAC2
TNFAIP3 TICAM1
IHH PTCH2
FGFR3 SMG7
HLA-DQA1 HLA-DQB2
TAF1C TAF1D
NAPA TRPC3
GRIN2D DLG4
CRKL SOS2
OLFM2 FANCF
EWSR1 CPSF7
PSEN2 NCSTN
SLC25A6 GNB2L1
CBR1 FTSJ1
DAND5 SRY
TRAF3IP3 MOBKL3
FLNA PIK3R1
PPP2R1B PDCD10
ACTN4 MAP3K3
CRK DPPA4
GATA1 HDAC1
CDH1 PTPN14

IL3 IL3RA
LMO1 NHLH1
AP2A1 DEK
SUZ12 WDR77
IKBKE DDX21
NPM1 FANCC
CREM KCNIP3
VCL TRIP6
PTPN6 CTNNB1
CTNNB1 TLE1
ANXA6 RASA1
NR3C1 TXN
REST RNF2
PELI2 IRAK4
DHX9 TNFRSF14
RARA PRDX6
FHL2 TRIM63
RAC1 UNKL
YWHAE MAP3K1
DNM2 SORBS1
VAMP2 STX3
STK32CRPRM
CDK2 E2F1
PGK1 DISC1
PTPN6 SLAMF6
NOS1AP PTPRN
CEBPE GTF2A1L
INHBA ACVR2B
EIF2S2 EIF2B3
CFL1 ACTA2
SMAD3 GGA1
NOS1 DLG2
LEPR GRB2
GTF3C1AKTIP
ACTC1 SCIN
YAP1 HNRNPU
TFRC SH3BP4
EFEMP2 SGTB
PHB SGIP1
COMMD3 ZNF337

YWHAB PARD3
KPNA1 ELAVL1
C17ORF61 FAM45A
SLC25A37 ID2
TEC MED28
HSP90AA1 DAND5
SRRM1 RBM8A
IQGAP1RAC1
PTPN4 GRB2
HDAC1 BAZ2A
CRIP2 PRKG1
MAP4 MARK1
MAPK6 ZCCHC8
AURKADPEP3
CD46 ITGA2
EXOSC2 EXOSC8
DPY30 ASH2L
IGF2BP3 CNBP
SLC16A4 BSG
MAP1A MAP1LC3A
SIP1 IKBKG
NFYA ZHX1
RASSF5TERF2IP
APC MBD5
COBL PACSIN1
BRCA1 CSTF1
YWHAZ SRGAP1
JAK2 CSF2RB
DPPA2 DVL3
LZTR1 KDM2B
MAPK3 PTPRR
NRP1 SEMA3C
MYC PDS5A
PCBD1 CPLX2
SNCA PLD1
TUBG1 CTBP1
STK19 POLR2G
NOS1 RASD1
GRID2 DLG2
TGFB1 MAPK14

INSL6 SPG7
CASP3 SREBF2
YEATS4 KIAA1009
TIMM23 BRF2
STAT5A STAP2
ZFPL1 ATP5J2
HDAC3 NFKBIA
DOK2 DNAJB11
SMAD3 CFDP1
COPB1 TAP1
MAPK3 PTPRK
PTN GLYAT
PRUNE2 RCN3
RUNX1 SMAD2
RUNX1 SMAD1
GSTP1 MAPK8
ACVR1 USP39
PSMF1 RNF126
PRKCA AKAP5
TRIM41IKBKG
TRIM27NFYC
ERBB3 BCAR3
YWHAQ MTNR1B
UBL4A CDK9
HAP1 GLTSCR2
SGK1 IARS
UBR7 UBQLN4
SRSF2 HABP4
PTPRC PPFIA1
POLN POLDIP2
ABP1 FGD1
HCK PIK3CB
LZTR1 RERE
PDXK YWHAZ
PKN1 HDAC5
STAT3 ZNF148
ZCCHC10 LUC7L2
GEMIN4 DHX9
BRCA1 UBE3A
PRTN3 F2RL1

STAT5B EP300
CCND1 CDKN1C
PTPN6 PTPN11
FABP3 NR4A1
TCEA2 CENPT
WWP1 IKBKG
AURKAAURKAIP1
PSIP1 HCFC1
CYCS TNFRSF10D
GPT2 USP20
NHP2 LYAR
NPM1 YWHAZ
CAND2 TBP
DAND5 MEF2D
GTF2A2 TBPL1
XRCC6 GAL3ST4
PRMT5 CLNS1A
FN1 THBS1
APP CASP3
ZFPM2 UBQLN4
BNIP3L DOK5
GNPAT RAB35
STX5 COG4
PPP3CACRTC2
SRP54 SERP1
RPA2 KIAA1377
CRYABCRYBB2
TJP1 MAGI3
CNN1 CALM2
PAX2 BBS4
CTNNB1 CBY1
CEP350 PLEKHA5
PAK3 MYO6
TDP2 SKIL
TUBB4 YWHAG
MYL1 ACTA2
ABI1 CBLB
STAT2 EP300
PARP1 SENP1
GPC1 GRB2

DVL2 THAP1
HOXA11 HDAC2
DFFA EWSR1
MYO7ADFN31
RBX1 FBXO31
MEPCE ARHGAP23
TUBG1 RPS27A
DDIT4 BTRC
DNAJB1 ECSIT
UBC IRAK1
ARL1 GOLGA4
MAP2K4 ARRB1
RPL7 RAN
YAP1 TP63
ETS1 TTC3
BIRC5 KCNJ6
PFAS TRAF6
PXN PARVA
CCR5 CXCR4
IMPDH2 ARF6
SH3KBP1 FAM125A
RB1 CCND1
MINK1 KIFAP3
HNF4A NCOR2
PCNA PRDX6
CDC5L SRRM2
RELB COMMD1
RAC3 DDX46
HSPA5 CAV1
F2 PLAU
TOP2B TOPBP1
F2 F9
MYC ZBTB17
LCP1 CNN3
MYST2 ING5
CD3D RPS27A
IKBKE CYLD
BAG2 MAP3K3
ACTC1 SYNE2
PPP1R7 PLCB1

ASNA1 SEC61B
TBP CKLF
SRF RXRG
RPL10 MAP3K1
TNFSF11 ZNF675
F2 PLAT
SSSCA1IL16
MRE11A ATM
DDX11 DSCC1
RBM34 IKBKG
VIM CAMK2D
ZNF10 NDEL1
RCN3 PRUNE2
TUBA3C IKBKG
MED28 MED9
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SPTBN2 MAP3K10
PAPPA SMAD2
MLH1 RPS16
NPM1 H2AFX
TAF2 TAF8
TRPV1 ITCH
PARP1 RNF4
CDC42 DOCK8
IFIT3 CDC37
CSNK1G2 SMAD3
C19ORF60 MDFI
NUP214TNPO1
PRKDC KAT5
TXN NCF4
ALDH2 CRMP1
BAX TOMM22
PRKAR1A PLEKHF2
STAT3 RELA
WASL WIPF1
TRIM6 TRIM5
HUS1 FBXL15
TPT1 RBBP6
CAMLG PARD3
CDKN1B RNF123

NOS1AP LRP2
HPS6 MARK4
XRCC5 CD40
CYCS RNF7
UBC CDC42
SLC25A4 TNFRSF1B
XRCC6 NR1H4
HSBP1 CCDC53
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CENPA CENPI
FGA SERPINF2
PRPF40A UBR4
SKP1 FBXO46
RFWD2 COPS8
HSPA4 BRMS1
PSMD12 PSMD4
HOXB13 ZNF490
HLA-B B2M
TWF2 KRT82
SNW1 PABPN1
NEFH WNK1
ZFYVE9 EIF4G1
NR3C1 ETS1
GOT2 PSMD4
ITGA5 CBL
AIFM1 TSC22D4
GRIA2 SPTBN1
FLNA MTNR1A
GABARAP TFCP2
TNF CSF1
NFATC2 NFATC2IP
PDPK1 PRSS23
GTF2E1 TAF11
SPI1 SIN3A
GNAI2 LPAR3
PLG MMP3
SF3B1 SMNDC1
IKBKB EIF2AK3
ZBTB16 TRAF2
STX7 STX6

CSNK2A2 ERH
HSP90AB1 RPL7
MCC KCTD12
NFKBIA HDAC4
SYK SLC6A20
IKBKB TRPC4AP
KCNH4 TAOK2
HIST1H4I DYRK1A
CSTA DSPP
INSL6 ANKRD24
RPL27ASUMO1
TNIK CNPY2
MED28 MED20
RET AKAP5
GPN1 GPN3
RPAP3 PDRG1
NR4A1 MYBBP1A
NAA38 GTF2I
COPS4 COPS7A
SLC3A2BRF2
SYT1 SYT4
GRB2 PAG1
MYBL2 LZTR1
COL6A2 DISC1
MOAP1 TRIM39
CENPE SKA1
TBP GTF2B
HLA-B CYCS
PLK1 ANKRD33
ARRB1 TRAF6
ELL HNRNPU
BNIP3 HDAC1
HOXA11 CREBBP
NBN ATR
PAX3 HDAC1
MYST2 KCTD13
PTP4A3 KIAA1279
AKT1 RAC1
NPM1 SWAP70
NCF2 CDC42

EIF4G2 OPTN
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LYN CASP3
SNX1 SNX6
HDAC4 PPARC
SIN3A HDAC5
TULP2 MEOX2
SAP30 TAF6
VIM TJP1
WWP1 KLF2
UBE2E1 ZNRF4
S100A4 METAP2
RPS11 MAP3K14
MYC MAPK7
CSNK2B PRKCZ
TADA1 TAF9
F2 HGFAC
UEVLD GALM
SMARCA5 SOD2
DPEP3 TAF6
EIF3E TNFRSF14
TARS PRKAG1
ITGB2 PLAUR
DMWD NDUFA5
VAV1 SHC1
MYO1BEIF4A2
VAV1 PTPN6
GPRIN1DLG2
PRKCSH IKBKE
VDAC1 TOMM20
CCT4 STRN3
CBX2 MDFI
MCM2 SSRP1
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RPS27AXPC
SPP1 CSNK2A1
TFG NFKB2
DLG1 GRIK2
CARD8 IKBKG
YES1 PTK2

LDB2 ISL1
XRCC4 APLF
TGFB1 AMHR2
TNFAIP3 CCDC50
PIK3R1 CDC27
COL1A1 MMP2
MYC NUP133
MCM4 MCM6
ZAP70 NFAM1
IGFBP5 FHL2
YWHAB USP8
ZIC2 RNF180
ARID1A CARM1
MAX MYC
OTUD4 MOG
PGR RNF4
TCEB1 TCEB3B
HSP90AA1 HSPA1B
AR SMARCA4
NOTCH1 LEF1
ERBB2 ERBB3
AR SMARCA2
WNT1 SFRP2
MAPK6 DST
ELN LOX
MYC GEMIN4
EGFR CALM2
SMAD6 RUNX2
PDGFRB SH3KBP1
MAPK3 PEA15
SRSF1 PRPF4B
SCAMP1 ITSN1
CALM2 NRG1
HOXA10 EP300
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CHD3 KPNB1
GNA14 OPRL1
STIM1 ORAI1
MYB SDC2
SMAD1 ERBB2IP

HCK UNC119
NFKBIE MAPK7
SUMO1 MAL
CDK1 PPP1CC
SUMO1 MUL1
MATR3 GSTK1
SIN3A PA2G4
ATG16L1 MAP1LC3B
PDK2 HIC2
HDAC3 HIF1AN
CAD IKBKG
MYC ACACA
MAPK9 GRB2
KCNH4 UTRN
CHMP2A NOL4
CROCC KLC3
EEF2K EEF2
TARBP2 EIF2C2
KAT5 NDUFA4L2
ADRB1 GIPC1
CBX3 DNMT3B
ARPC1B ARPC5
CDK4 MYOD1
ZEB2 CTBP1
DHX9 LYAR
LAPTM5 WWP1
GSN VDAC1
FNTA PTP4A2
WASL DNMBP
TPD52L1 MAL2
SAP18 KIAA1279
MATN2 MATN3
GABARAP MAP1LC3B
CRY2 TTC1
FKBP8 BRE
TLK2 FEZ2
GH1 PSMC3
MID1 UBE2E1
STXBP3 VAMP2
DDX23 TP63

CDC42 SRFBP1
GATA1 IKZF1
G3BP1 KRI1
SOX30 NUDT3
PCNA CCNA2
BAG6 KLHL12
DVL2 RBFOX1
TEAD1 MAX
ELF3 KRT31
VDAC1 SF3A1
SDCBP EFNBI
PPP2CASET
GABARAPL2 MLX
ZYG1B1 WNK1
NFKB1 G3BP2
SLIT2 ETS1
APBB1 KHDRBS1
SERPINA3 KLK4
TCERG1 CPSF6
GNB3 GNG4
SLC38A1 TLE1
XRCC6 ATP6V1E1
PNLIP YWHAE
STK38 HERC5
TRAF5 MAP3K5
CDC34 CDK9
PRKCA AKAP12
SMAD2 TBC1D1
HLA-B PDCD6IP
AKTIP KIAA1377
VAMP3 IKBKG
MKRN3 UBE2U
HIBADH YWHAB
BTF3 VHL
SMAD1 MED15
ZEB2 MTA1
NOS1 NOSIP
CCNE1 CDK2
UBE2I RAD18
PDPK1 STRAP

HIST1H4I HDAC1
SNAP23STXBP3
RAC1 PLEKHG2
ITPR3 SIGMAR1
HLTF USP7
KCNB1 STX1A
PTPN6 STAT6
CCND1 CDK6
MSN L1CAM
SQSTM1 GLG1
CYP2C9 MAST1
CHEK2 TSSK1B
FN1 PRELP
HRAS MAPK8
FYN FCGR2C
MAPK1 GMFB
COPS8 COPS7A
FYN FCGR2B
NPHS1 MAP2K3
CCR1 CCL23
SLC25A5 RIPK3
IGHM CEP72
STIP1 FKBP4
CRB1 INADL
FYCO1 MAP1LC3A
C10ORF118 PLEKHA5
ZMIZ2 SALL2
GATA3 MDM2
TUBB4 TRADD
EPHB2 SDC2
LCP2 MAP4K1
DLG4 KCNA1
NFKB1 VPS4A
YWHAE CHAF1A
TNFSF14 BIRC2
FGFR1 SHB
MYO1DPELO
PEX1 PEX26
GSPT1 RANBP2
NFKB1 TP53BP1

HIST1H1A EZH2
EIF1B SAR1A
PLCB3 CAMK2B
PLCB3 CAMK2G
STK11 MARK1
APP SNCB
MYF6 ID1
ARHGAP1 EPB41L1
NR4A2 CISD1
APAF1 BCL2L1
CAST CASP7
CSNK2A1 HES6
GPRIN1DLGAP4
ZBTB37SH3BP4
ATN1 TEP1
ERBB3 TXK
MAD2L1 ADAM15
ERBB3 ABL2
LHCGR GNAS
FGA HRG
SLC9A3R1 AKAP10
ARF6 DCTN1
RAC1 YY1AP1
PSEN1 METTL2B
GRIP2 GIT1
AKT1 IRAK1
AP2A1 EPS15
ARF6 DYNC1H1
SSRP1 SUPT16H
PTHLH ARRB1
TUBGCP4 OBFC1
FANCA HSP90AA1
HLA-C PSME3
TUBA3C TAB1
ISG15 FUT4
USO1 PTP4A3
SLC2A1STOM
ADAMTS4 HP
MLLT4 YWHAZ
SUPT3H KAT2B

NCOR1 ZBTB7A
SUPT3H KAT2A
UBE2I SALL1
IKBKE ISYNA1
SLC2A4PSMD7
SMAD3 SVEP1
DNM2 PACSIN1
PTPN6 PAG1
TGFB1 OCLN
MCM3 HLA-B
DLST UIMC1
ZBTB7A BCL6
TGM2 HTT
DOK2 RASA1
FXR2 AP1M1
PLCB3 TRPC3
EGFR PTK2
CDK2 CDK20
EWSR1 SERP2
CSPG4 GRIP2
RBX1 CAND1
CCT4 IGBP1
FGFR1 RPS6KA1
HSP90AA1 DAPK1
SIP1 STXBP2
TAF5L TAF9
PIK3R2 IGF1R
BRAF RANBP9
GNB2L1 IKBKG
RNF123 MAP1LC3B
DSC1 PKP1
SP2 NR0B2
SMAD2 GATAD2B
COL1A1 VWF
KRT15 APC
IKBKE ACOT13
LRP2BPCOPS3
NCAPH NCAPD2
EWSR1 CD177
HSPA4 HIF1A

PCBP4 PCBP1
SPTBN2 DCTN1
MPDZ AMOT
HES1 FANCF
PPP2R1A TRADD
UBE2D1 STUB1
CCT5 THEG
CCT6A RPAP1
COL2A1 FGF7
ABL1 TRIM39
DDA1 ANKFY1
GRIA2 SQSTM1
KIF1B EEF1A1
DEGS1 PCMT1
RPL3L G3BP2
TNKS2 LNPEP
TADA3 XRCC6
GADD45B GADD45GIP1
CHAF1A ASF1A
RAD51C XRCC2
RAD51C XRCC3
NANOS3 MPRIP
DYNLL1 TRAF3IP3
PTGS2 COPS5
WBP4 SNRPA
CHEK1 BLM
LRP1 KAT5
SNAP25DNM1
HAX1 ABCB1
GABARAP ATG5
CDC42 FNBP1L
ALB PRB3
DYNLL1 POLQ
MEGF10 KIAA1598
TUBA4A C5ORF25
PRNP CWC15
FIBP GEMIN4
PLEKHA5 PICK1
MBP BMP2K
JAK2 IL6ST

MAPK8 REL
HGS MED7
UBE2B IRF7
UBE2D3 IKBKG
ARPC1B ACTR2
ARPC3 ACTR3
NDUFB9 HAP1
TNFRSF1B EEF1A2
RPS6KA3 SHANK1
PINX1 DDX50
NFKB1 TBK1
ARPC1B ACTR3
IGFBP5 KPNB1
TGFB1 ARHGAP31
SULT2B1 SULT1E1
PLEKHA5 SPTBN5
APAF1 HSP90AA1
TUBA3C NFKBIB
YWHAG SF3B3
RNPS1 PRPF8
PSEN1 KANK2
PLEC KCTD13
SNTB2 KCNJ12
NR2F1 COPS2
HIVEP2 RPS6KA1
SNUPN RAN
TRADD HSPA1B
EGFR HDAC6
RGS16 GNAI1
PRKDC CAMKK2
ABL1 NPVF
YWHAQ HDAC5
CDC42 ARHGAP31
SYNGAP1 CAMK2A
RNF4 TCF20
SRF TEAD1
TSC2 GSK3B
IPO5 NUP62
IGFBP3 CAV1
PAICS MOBKL3

DSPP PKP2
SYT7 STX2
IRF7 MYD88
ABCD3 USP32
RAD23B ADRM1
YWHAQ CAMK2A
HNF1B HIST1H3J
ZBTB6 ATF7IP
TTR CHD3
SNTB2 SCN5A
ACTA1 PARVA
UBE2G2 MALT1
DVL2 PARD6A
CCL5 DPP4
BRCA1 SMARCC2
SUMO2 CNTN2
JAM2 TJP1
TECPR1 GSG1
BRCA1 GF11B
DDB1 DCAF16
DDB1 COPS8
CASP1 ATN1
MYBPC3 TRIM63
ZNF250 TRIM23
RPS20 IKBKG
MLH1 C3ORF75
SNAPC5 NMI
TUBA3C TRADD
ACTL6A SMARCE1
RPS6KA1 SHROOM3
SRF ELK4
PPFIA2 PPFIBP2
ELL USPL1
CASP1 ATXN3
PTH BAG6
TBP SETD7
STAT2 SMARCC2
TRPC3 PLCB1
ACTN1 COIL
WT1 FHL2

IRS1 PRKCQ
MAPK8IP2 DUSP16
DDIT3 PICALM
HDAC1 RCOR1
AR GNB2L1
SNRPD1 CDC5L
NCOR1 NR1D1
APTX TSPYL2
BRE SSR3
PEBP1 MED10
SRC SHROOM2
MAP1A KCNMA1
TCAP ANKRD2
DDA1 LARS
PCMT1 CHD3
PHF17 MEAF6
TRIM29SNAPC1
CDK1 DAB2
ZFYVE20 VPS45
VHL TCEB2
INSC GPSM1
HIRA H3F3B
GOLGA2 TMED2
FBN1 RHOB
BUB1 CRK
MCM3 HAUS1
NKX2-3 ZNF182
AXL RANBP9
HIP1R DYNLL1
GRB2 ISG20L2
APOA1 SCARB1
JAK1 PRKCZ
JOSD2 AHCYL2
TMEM33 C20ORF24
PHC1 CBX8
VWF FURIN
EIF2S2 PRKDC
PRKCA GJA1
CALCOCO2 C20ORF195
SUMO2 HDAC2

COPS6 BTBD2
SMARCA2 RBBP7
RAI14 FEZ2
MYST2 ATN1
HDAC1 APPL1
SERPINE1 KLK2
YWHAG KRT31
CIITA HDAC5
PDCD10 FGFR1OP2
HLA-E PPP1R16A
ARF6 SEC11A
SMARCA2 ARID1B
HSPA1B STUB1
SRSF7 CDK19
FYN CD48
UBE2H UBASH3B
TRIP6 RNMTL1
PCNA HLA-C
MNAT1 INSL6
VHL TCEB1
CBX3 MIS12
KAT5 IK
CCDC130 EEF1A1
CUL3 KCTD5
CCT3 YWHAZ
HSPA1B PACSIN2
OR10J1 TRAF6
CD19 SOS1
ACTB ATF7IP
VHL PCBP1
ZNF707 MDFI
HAP1 COL9A2
TNFRSF1B FANCI
MTUS2 ZFP64
CALM2 TAB2
AIFM1 WWC1
FOS NCL
LGALS3BP NFKB2
SQSTM1 KEAP1
EIF3F EIF4E2

CDC45 CDK4
LCK CD79B
ABCA1 SDHB
SLC2A4FAR1
BCL2 TP53AIP1
SPRY2 CBL
TNFRSF1B ATAD3A
SIN3A BAZ1B
HRAS FHOD1
SMAD7 RPF1
SMAD2 DOCK8
EXOSC2 KHSRP
CTNNB1 PKP2
KRT15 PRPH
PRKCB RPS27A
LYN KHDRBS1
ITGB4 PRKCA
ATF2 SSFA2
RHOB ARHGDIG
TRIP6 LPAR2
WDFY3 ATG5
SRSF7 SRRM1
TGFB1 DUSP13
E2F4 RYBP
RPS3 IKBKG
SMAD7 YAP1
TGOLN2 FURIN
FNBP1 AKAP9
MAPK9 PRKD1
TALDO1 CHD3
PGR APEX2
ACTB TJP1
ZNF165 SCAND1
ZZZ3 PBXIP1
GRB2 RALGPS1
MAPK9 SRFBP1
HOXD4 XRCC6
MECP2 LBR
UBE2H RNF2
DAB2 PIN1

TSC22D1 FASTKD2
CNTNAP2 EPB41L3
TGFBR1 DAPK2
SKP1 FBXO34
NR4A1 MAPK8
ELN LOXL1
FRAT2 GSK3B
XRCC6 CDCA5
POU2F1STIP1
UBE2D1 TRIM26
HLA-C HLA-B
RAP1A FADD
DYNLL1 PKIG
PABPC1 GSPT1
HR RARA
ILK HEATR2
RIPK2 CD40
EXOSC2 UPF1
PSMB1 FTSJ1
PIAS1 SUMO1
UTP3 HAP1
EFEMP2 UBQLN4
PIWIL1 DICER1
TRIM23POLI
SMARCC1 BCL7C
LMO4 TSEN15
YWHAE MLH3
GRB2 PITRM1
BCL2 BCL2L10
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NFKB1 HSPA9
GKAP1 SH3BP4
DVL2 ATN1
HNF1A SMPDL3A
PRKCB RASGRP3
RAC1 ARHGAP31
DCC CASP9
NPM1 PLCG2
SUMO2 SLX4
BRCA1 WDR48

PDCD7 FEZ1
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CDCP1 ST14
TPST1 CCR2
RNF4 TRPS1
KCNA1 DLG1
GADD45B CDK1
RAN SSRP1
ZNF410 BLZF1
TOPBP1 RPAP2
PLCG1 LCP2
CLDN4 EPHA2
FZD9 MDFI
IMPDH2 AKT1
TERF1 DLG5
PPP1R3D YWHAG
USO1 ARF6
RALA RAP2B
TNK2 WWOX
GABARAPL2 RAPIA
HAND1 MYOD1
HSPA1B NQO1
CASK DLG4
ST13 DAPK1
RELB KIAA1967
RAB27B SYTL2
BMI1 IMMT
COPS6 QTRT1
VIP UBQLN4
SCN4A SNTB1
DSG1 PKP2
PAX8 EP300
PGR DAND5
MYH1 SMYD2
NIPBL MAU2
PSMD11 SMAD4
RGS12 ITGB7
MCC MMS19
PPARG KAT5
INPPL1 FLNC

KCNJ10IL16
PRKCB ADRBK1
VAV2 USP38
DDB1 COPS7A
CRK PTK2
PIN1 NONO
DDX58 UBC
FANCA CAPN1
UBE2C UBASH3B
MET STAT3
YWHAB ADAM22
COPS6 BTBD1
AKT1 SMARCB1
YWHAB RAI14
PRKDC DCLRE1C
RGS12 GNAI1
PLCD1 KPNB1
MAP3K1 RUVBL2
MYC CDC6
FUS PRMT1
SEMA7A NCK1
SNPH STX1A
ATXN2 ZNRD1
SURF4 TMBIM4
GPN1 ARMCX3
ARPC2 SF3B1
KRT9 TANK
INSR FABP4
DYNC1H1 PHB2
PCP2 LAMA3
TBC1D4 RBM12
COX4NB TSC22D1
EFEMP2 PLSCR4
SRC ERBB3
SDC2 ITPR1
FOXO3 ATM
WRN NLRP2
VCP FBXO2
UNC119 QTRT1
RPS6KA3 SLC45A2

RBBP6 NDUFB9
PCNA UNG
CTNNA2 CTNNBIP1
NCOR1 BAZ1B
DIAPH1RHOA
RPS27ARUNX3
YWHAB SH3BP4
PEX14 MED8
GK GCKR
H3F3B EHMT1
CSTF2 KIAA1377
AURKABIRC5
CUL4A NEDD8
TINAGL1 MED31
PRKCA CASR
ZMIZ2 PIAS3
SRA1 NCOA3
YWHAB PRKCD
CAMK2B CAMK2A
PLG F2RL1
YWHAG FRMD6
SKP2 CUL1
MAPK9 SHANK1
IL16 DMRTB1
SKP2 CUL4A
EIF5B NR3C1
TGM2 CASP3
CSTF2 CPSF2
RPS6KB1 MAPK8
HDAC1 DNMT3L
RPS6KB1 MAPK9
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ADRB2 GPRASP1
CCNB2 CDKN1A
NCSTN PSENEN
SMAD7 SRF
WDR83 EGLN3
COPS6 CLPB
FLOT1 FLOT2
TACR1 TAC4

DDX1 NDRG1
PSMD8 PSMD6
ZNF225 ERBB3
KAT2B CDCA4
XIAP TBK1
EI24 UBE2D1
C1QBP EXOSC6
FXVD1 PRKACA
PRKCA OPRD1
PRPF3 WBP4
SF1 RBPMS
NCOA4 KAT2B
MAP2K4 FLNC
MLL HCFC2
AIMP1 IKBKE
GMNN SIX3
UBA1 DZIP3
CSF1 CBL
RBPJ SIN3A
CDK5 FSD1
HDAC1 LEF1
PBX3 RABAC1
RBPJ SPEN
IKBKAP CSTF2
CDK5 CABLES2
HOXB6 KRT15
GRB2 POLR1B
MYBPC1 USP25
WBP4 EWSR1
CPSF4 MARK3
MTA1 FOXP1
ATXN7 TAF12
UBXN7 HIF1A
HDAC1 ING1
FAM46A EGLN2
UBE2K RNF138
DIO2 USP33
TAF9 FEZ1
GRAP2 HNRNPK
CDH1 SRC

UBC NBR1
CUL4A GSTK1
RHOA ARHGAP10
RPS6KA3 FAM65B
HSPD1 TLR1
TAF1 BRMS1
POU2F1AES
GABRB1 PIK3CA
SURF4 NEK6
FOS IDS
PRKAR1A GABARAPL2
RASA1 CAV1
HMGA1ORC1
HMGA1ORC2
TRAPPC2L GSG1
APC MAPRE2
TEC PIP4K2A
RGS5 GNAQ
JAK2 MPL
SLC9A1MAPK14
PSME3 FTSJ1
NFKB1 CTNNB1
TNFSF11 MMP1
SNRPD1 SRRM2
DNPEP UNC13A
MYC KAT2B
ATP5B YWHAZ
NFIX RPS6KA1
MAVS TICAM1
MAFG NFE2L2
SLC9A3SHANK2
EPRS HSP90AA1
ATN1 MYST4
YWHAG DOCK7
ALDOAPCNA
SEC61BARL6
NCK2 DOCK1
SP100 HIPK2
CBL PXN
PSMD11 UNC119

SRC SPTAN1
MIER1 CREBBP
VCP SYVN1
ZNF8 SMAD4
CA2 PTCHD2
PRICKLE3 TRIM29
BAG2 SRRM2
PDIA3 PLXNA1
EDC4 DCP1A
PSMB6 IKBKE
UBE2D1 UBE3A
MED28 MED17
WWP2 EWSR1
MYC KAT2A
WWP1 RNF11
EPB41 EPB42
KRAS PGGT1B
ABLIM1 USHBP1
YWHAZ ADSSL1
SERPINE1 IGFBP5
KEAP1 NFE2L2
TGFBFR1 ANAPC5
SMC2 WNK1
HSPA9 MVD
YWHAG RNPS1
EHMT2 THAP7
SF3B1 YWHAZ
MCC MSH6
HLA-B FSCN1
ZNF691 HAP1
JAK2 IGF1R
ST5 SMAD2
TPD52L2 TPD52
CXXC5 SMAD5
YWHAG RABEP1
KEAP1 ZRANB1
HCK ABL2
RAB25 KPTN
NOS1AP SYN1
TIRAP TICAM1

EIF3E EIF3A
CUL3 GABARAPL1
ATG10 MAP1LC3B
ATXN1 R3HDM1
TAF5L MYC
IDO1 PPP1R16A
GPRIN2DYNLL2
ATXN1 DAZAP2
MED24 TRRAP
CCDC88A DISC1
MYC TUBA3C
SERPINA1 MMP11
PPFIA3 PTPRS
KCNK3 YWHAZ
HMGB1 CRMP1
TNFRSF10C ZHX1
RPGR RPGRIP1
IGSF1 HECTD1
STAT1 EP300
MRPS26 USP42
SDCBP GRIA1
SDCBP GRIA3
SDCBP GRIA2
ADAM15 MAD2L2
HLA-B CPSF6
EWSR1 C18ORF10
ZMYND19 HACL1
IQGAP2NFKBIB
PAPOLA CREBBP
MAPK1IP1L LENG8
GRIK1 HOMER1
PPP2R1B SGOL2
CCDC136 ZNF408
ACP1 MRPL20
GRB2 WDR44
TP53 YWHAZ
CRP HIST1H2AL
MYC CREBBP
TUBA4A SRRM2
ACTA1 JUB

CCNC CREBBP
PRKCG NRG1
UBE2U TRIM35
EIF2AK2 CASP3
MSH6 CLSPN
ENO2 C16ORF45
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CBFB DHX36
RPS27A HDAC1
SIN3A ING1
BTBD2 CCDC90B
PTPN11 PTK2B
TUBB MAP1A
EIF3B EIF3M
KHK AP2S1
MATK EWSR1
ZNF91 CHMP5
MAP3K7 HIST1H4I
MYH9 GRB2
PFDN1 IMMT
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MYC ITGA1
GTF3A EPN1
SNCA ARHGAP15
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MLLT3 AFF4
ARIH2 EEF1A1
ACTA1 CTTN
PBX1 PBX2
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SKP2 ORC1
GABARAP ATG10
NAPA RTN4
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CASK DFNB31

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MED14 PARP1
MDFI SLC25A10
RPS27AMAP3K3
SERPINA5 KLK1
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CD247 GAB2
GRIN2B AP1M1
PCGF2 USP11
PCNA XRCC5
ITGA5 ITGB5
SMAD4 ATF7IP
PARP1 CHD7
NCOR1 DDX20
TIFA SDCBP2
ACP1 VHL
TAF9 UBE2Q2
DEK HIST2H2BE
VAV2 SERBP1
GPS2 SETDB1
NCK1 MAP4K5
LCP2 STAM
IMMT SRRT
RUNX1T1 NEUROG1
CDK5 CDK16
HDAC1 CTBP1
DRAP1 TAF9
COL2A1 BGN
CLTC PRKAB1
RBM10 SREK1
GABARAPL1 TBC1D2B
FTH1 UBC
RAB25 RAB11FIP2
GSK3B IKBKG
DCTN1 DAXX
MAP3K1 UBE2D4
UQCRQGRINL1A

RAD21 PDS5A
CD247 SH2B3
SAP30 ZNF395
XIAP SERTAD1
OBSCN TTN
UBE2R2 BTRC
UGCG RTN1
FOXO3 NR1H3
PLCG1 CHAF1A
TRAF2 PSMF1
SLC25A6 KRTAP4-12
POLR3A RPAP3
EFEMP2 LINGO1
MAPK3 SMAD2
GP1BA YWHAH
PIK3R1 TIE1
PIN1 RNPS1
GRB10 DOK1
HPRT1 ATG5
PDCD4 FBXW11
PHF2 PRKCB
SNRPE GEMIN6
DYNC1H1 CDC5L
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FBXW4 NLK
CCT8 MOBKL3
YWHAH ING1
INSR PTPN11
FKBP4 UBA5
NEFM TNIK
KAT2B SERTAD1
MAPK1 SHC1
HNRNPU MAP3K14
NCOR1 DACH1
YARS FTSJ1
PRLR NEK3
CDC16 MDC1
GATA3 HDAC5
TNP1 PRKCA
TGFB1I1 TGFB2

GPRASP1 MTF2
ZNF646 NINL
PRPF6 NR3C1
HNF1A PCBD1
RB1 CDK2
NAA38 DBF4
NKRF NFKB2
SMARCA2 HIF1A
HOXB9 MYBBP1A
CUL4A VPRBP
CTSL1 ARSA
KIT CLTC
SHH HHIP
YWHAH RIMS1
NR2F1 ISL1
CSNK2A2 ACACA
NCK1 SF3B4
RARA EZH2
PTPN6 GAB2
ZNF8 SMAD3
CAPZA1 ACTB
NF2 DDB1
S100A8 PPIA
VHL SF3A1
PLG RAP2A
YWHAB KIF5B
RARG RXRB
YWHAZ MVP
HSPA1B DYX1C1
EXOSC7 EXOSC4
DPP4 CXCL12
GFI1B NELL1
ABL2 MAP3K10
CBX7 HIST1H3J
EIF3F USP3
FBLN1 NOV
RPL35 MAP3K1
BRAP KSR1
ALB FCGRT
GATA2 SMAD4

ANAPC1 ANAPC4
ANAPC1 ANAPC2
CKS2 EEF1A1
TNFRSF10C SLC27A6
CPSF1 WWOX
ANAPC1 ANAPC5
ANAPC1 CDC23
PAICS TRAF6
HCFC1 MYST1
HIST1H2AE KAT2B
SKP2 SMAD4
CCNA2 RBL1
ATRX H3F3B
SPOP H2AFJ
GTF2I PRKG1
FRYL YWHAG
LIG1 CSNK2A1
C3 VSIG4
ATAT1 SMARCC2
CHD3 PIAS4
EFEMP2 ATN1
CR2 HNRNPU
EFEMP2 ATXN1
MTDH OTUD6B
PSMD3 NFKB2
VAV1 TYK2
CX3CR1 CX3CL1
AKT1 PPM1A
IL3 PIK3CA
NCOA6 RBBP5
PLN PPP1R3A
TNFRSF1B BMX
BCL10 IRAK1
POLE POLE4
HAP1 DCTN1
CSNK2A2 PAK1
NCF2 ACTB
FOS MAP1B
ROR2 IKBKG
SQSTM1 TOE1

RPF1 SCNN1G
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MAGOHB RBM8A
PTEN MAST1
SRP14 PINX1
YWHAB LRFN1
TCERG1 CYFIP1
ZW10 ZWILCH
CENPF CHMP2B
RPF1 SCNN1B
CSNK2A2 EIF2B5
ALOX12 TRIB1
MAP2K2 COPS5
PRPF38B USP33
RANGAP1 RANBP2
G3BP1 RPAP2
STRN3 ZRANB1
EMILIN2 EMILIN1
DVL1 ATN1
EEF1D CCAR1
EHMT2 UHRF1
WNT7AFZD5
DDB1 DDIT4
ABL1 MAVS
ADIPOR2 APPL1
SFN GRB7
ATP1A1 TPT1
CREB1 C14ORF1
ECSIT RNF32
VARS EEF1A1
LUC7L NFKBIL1
KIAA0182 C7ORF64
TRIP6 NUP210
KIAA0182 EXOSC6
SLC3A2FAM57A
YES1 TP53BP2
RTCD1 RNMTL1
APOA4 GPLD1
SUMO2 RCOR2
MED25 MED28

FASLG SRGAP1
PDGFRB GRB14
ATG16L1 IKBKG
BAI1 BAIAP2
UIMC1 SSU72
HIPK3 MTMR4
CDK5 PURA
IFIT3 A2M
GSK3B SNCAIP
PRKCI MARK2
IKBKE SAR1A
TH MAPK1
CALCOCO2 FASTK
CHRNA3 UBQLN1
FOS KIAA1267
PACSIN1 STMN4
ARPC2 SNRNP200
YWHAB GAPVD1
SOS1 ABI1
SRC TGM2
ADAMTS4 ACAN
FYN IL7R
UBE2N XIAP
MAPK3 MYLK
HBP1 TCF4
RGS16 EGFR
CLTC RIPK3
WAS PACSIN3
PTPRF PPFIA1
NPPA HNF4A
MAP2K2 NAA10
SMAD4 STUB1
SRI SMAD2
YWHAG JAKMIP1
MKX SIN3A
HDAC3 TCF19
PLCG1 PAK1
EPB41 NHP2L1
CNOT3 CNOT6
REL C1QBP

PDGFRB GRB7
MCC TP53RK
PCNT CALM2
TBP GTF3C2
PIK3R1 IRS1
EIF1AX EIF5
FAM123B BTRC
MBD4 HDAC1
TAF9 RNF138
PRKACA PHKA1
SMAD2 RIMS1
MYH10 DAXX
SHKBP1 SH3KBP1
SP100 CBX3
TPM2 MAP4K5
H2AFX SUPT16H
FYN PLCG2
MT-ND4 MAX
GMNN REPIN1
GNA14 CCR1
ANGPTL1 NR2F6
UBE2D1 RNF150
UBE2H DTX3L
GORASP2 KCTD5
NPM1 CDC14A
CD247 STAT5B
OGT NFATC1
HSP90B1 MTPP
PML SENP2
RAB8A BIRC6
AR UBE2I
MAP4K4 SCAF1
STX1B VAMP8
PRKACA AANAT
S100P S100A4
GPRIN1 TJP1
CDC5L HOOK1
ITK G3BP1
HDAC1 MBD1
MEIS2 ZNHIT3

DAND5 ARNT
GNAI3 RGS7
MAP1A UPF2
CCT8 STRN3
GRAP2 FASLG
PBK KIAA1377
RANBP2 CDCA8
CREB1 ZHX1
CDK1 ITPR1
TSEN15NBPF3
ITGA2 ACTA1
KAT2B KLF15
HCK PAK2
RHOG VAV3
YWHAQ PANK2
SMAD3 ANK3
PRKACA RRAD
MAPK6 C4ORF41
HBP1 ZG16
ARHGEF9 GPHN
SORBS3 ZBED1
RRAD CAMK2G
P4HB TNFRSF14
USP2 RPS27A
CLNS1A WDR77
MYC HDAC2
CBFA2T2 WDYHV1
RAMP3 PDCD6IP
MED24 MED9
APOH LRP2
XK CSNK2A1
DST MAPK6
HDAC3 MAPK11
SMARCA4 ACTB
NOL8 RRAGD
RAD23A LOXL4
HDAC4 CTBP1
FADD CASP10
DUT PPARA
UNC119 BTBD2

VAV2 RAC1
TRIP6 AFAP1L1
CD79B SYK
ATG2A WIPI1
CD79B ZAP70
TCERG1 WBP4
CLN3 GANAB
PSMD14 ADRM1
MEGF10 ITSN2
SUMO2 MEF2A
ITGB1 FLNB
CDC27 TTK
SRSF5 SMAD2
PARN CSTF2
IER3 PPP2R5B
HIST1H1A SUZ12
ABCC12 VCPIP1
YWHAB PRKCZ
COPS2 COPS8
HGS MAP3K7
GABARAP GABARAPL1
HSPG2 ATN1
APC MAPRE1
SGK1 NASP
MKRN3 UBE2D4
HIP1 HIP1R
COPB1 UBQLN4
OPA1 NR4A2
PIK3R1 ID4
HOXB8 PBX1
HOXB8 PBX2
HOXB8 PBX3
NCK1 EPHB1
SNRNP200 YWHAG
TGFB1 RHOG
KNG1 PREP
PRKDC NR1H4
TGFB1 FMOD
PRKACA GAD1
ABL1 CSMD2

BIN1 BIN2
SRC RAPGEF1
CRX DAND5
TCERG1 SF3B1
SUPT5H PRMT5
TP53 LAMA4
P4HA2 P4HB
PELI3 TRAF6
INS CTSB
NGFRAP1 VTA1
BCL2L1ANTXR1
IFIT3 RAD23A
HLA-C GANAB
ARID1A PBRM1
CTNNB1 LEO1
TRIM32MID2
RPS27ACUL1
RNF19A SUFU
VPS35 PRKAB1
SOCS7 NCK1
CRHR1 UCN
RPS27ACUL4A
SURF4 BRF2
PSTPIP1 RPL31
HIST1H3J THAP7
DAXX HIPK2
CENPA KIF23
ZFH3 NINL
FBP1 RNF183
VHL MTPN
SRSF1 SRSF5
EIF2AK2 STAT1
TEAD4 WWTR1
DAXX HIPK1
SIN3A IKZF2
CENPJ CIC
SUMO1 TOE1
CHEK2 RB1
DDB1 DTL
NUDT18 KCTD13

FXR2 MCRS1
ABL1 CDON
CAP2 CAP1
MYC RFC4
FXYD1 PPAP2A
MLLT3 C7ORF64
DDX5 OTUB1
PLRG1 CTNNB1
SIN3A IKZF3
GOSR1 GABARAPL2
PIK3C2A EGFR
MYC GATAD2B
PDGFRA STAT3
ROR2 MAGED1
MMP1 BSG
PRKCG DCTN1
PRKCA NUMB
ATG7 MAP1LC3C
SYNCRIP SYT4
PIK3R2 SOCS7
IGF1 IGSF1
MYC RFC1
GNB2 RIPK3
DYNLT1 HSPB9
IGF1R YWHAB
REPS1 PLEKHA5
PITPNAPIK3C3
HCK WAS
MNAT1 HPS6
LYN CDK2
FURIN FLNC
MYB UBE2I
SIN3A HDAC9
IKBKE FAM49B
AMPH DNMI
DVL1 FRAT1
UBE2K RING1
MYC GTF2F1
SNAP25STX3
TRIM24TRIM33

PARP1 CASP1
ATP1A1 FXYD2
STK11 MARK2
PAK7 TUBGCP4
YWHAZ RAP1GAP2
CYP11A1 CYP11B2
CTBP2 BAZ2B
HOMER1 HOMER3
MYBBP1A NR2E3
MAP1A DLG1
POLD1 GSTK1
DLEU1 CCDC90B
AP1G2 RAB5A
MED12 EHMT2
MAPT STXBP1
TRIP13 PLSCR3
ECHS1 SMURF2
USP8 CHMP7
WDR5 WDR53
F11 SERPINF2
RGS14 GNAI2
MYC EP300
CASP7 BIRC7
ARID4A HDAC2
GFAP PSEN1
MUC1 SOS1
CREB1 RAB1A
LBR SRPK1
SNTA1 CNKSR2
SMARCA5 USF1
TCP1 RELA
AIFM1 C20ORF24
DCC SIAH1
IL18R1 IL1F7
HSP90AA1 MAP3K8
TCF3 MAPK1
PAK2 GIT1
GSK3B MCL1
FLT1 STAT3
HGS RHOBTB3

CETN3 INSL6
TP73 UBC
ARNT UBE2I
A2M ANXA6
PTPRZ1PXN
TOP2A TOP2B
YWHAE RIN1
OMA1 MYO6
LDB1 LMX1A
EID3 APPBP2
LCK CD55
PAK2 MYLK
ERCC6 BAZ1B
PRDX2 CDC37
KRT10 SMAD3
MYC CUL1
EPHA3 EFNA5
SPIB CREBBP
PTPN6 LAIR1
NEBL SMURF2
PIR NFIX
PIK3C2A PGK1
ITM2A APP
PPP3R1 PPP3CA
STK11 MOBKL3
CREB1 SREBF2
EFEMP2 LRDD
NCOR1 HDAC9
NTS PREP
RNF32 FBXL12
YWHAE DYRK1A
DDX17 EXOSC3
RPS19 PINX1
DDX17 EXOSC5
USP7 MAGEC2
YWHAZ INPP5A
HSPA1B BAG1
RAB11A VPS24
RGS12 CACNA1B
CAV1 SOS1

IGFBP3 CSNK2A1
ARHGEF6 GIT1
HLA-A B2M
TAF1 APC
CDC5L MYT1L
NDUFB1 EWSR1
GOSR1 BET1L
LAMC2 SLA2
UBE2D3 HDAC6
TFCP2 NOM1
BMP7 NCOA3
MED30 MED20
APP MAPK6
PDGFRB COPA
TMPRSS3 EEF1A1
DCTN1 AKTIP
HNRNPU NDN
GPS1 MALT1
NAIP XAF1
ITGA6 GRB2
PTPN1 PIN1
MAGEA11 PNKP
AURKBRCC2
PDGFRB COPB1
RANBP10 THSD7B
MCC VPS35
NR3C2 FKBP4
HIST1H4I MAP3K1
RGS3 HES4
SGTA EFEMP2
GRB2 ZNF141
INADL CNKSR2
COL2A1 HTRA1
PCNA CDC25C
BRAF PRKCA
WAS ARHGEF7
MSN SYK
PIN1 MTRF1
NPHS1 CTNND1
SNX3 NCK1

CAPZB BCCIP
SMAD2 CCDC25
RAB8A RAB3IP
RAF1 RHEB
UBC BMI1
UBC PCGF2
M6PR GGA3
ALDH2 IGSF21
REV3L HDAC4
DDB1 CNOT2
MMP2 COL6A3
FOXO3 SMAD4
CPNE3 USP42
MMP14 GORASP2
FOS CARM1
PIK3R2 SOCS6
CDKN1B YWHAG
RANBP10 CNTNAP4
SMAD7 MAP2K3
CHD3 MTA3
TLX2 ZNF502
SMARCA2 MECP2
TRIP13 PLSCR4
IL6ST PLAUR
ARNTL NPAS4
RUNX1T1 HDAC2
HDAC3 PML
ACTN2 ACTN3
COPE CASP4
SRC DGKZ
SRC SNW1
INS LRP2
PIK3R1 IL13
AIRE RANBP9
PIK3R1 CTNNB1
POU3F3SOX8
YWHAQ CDK16
SMARCD1 NR1H4
TXNDC9 SETDB1
PTPRB WAS

FYB FASLG
CCNT1 PURA
CRHR1 CALM2
TNPO1 NXF1
NCK1 MYLK
CFLAR TUFM
PRKCA RGS19
TGFB1I1 HIPK3
QKI PRMT1
MGRN1 UBE2W
STIP1 NEDD4L
CEACAM1 CD209
POLR1C POLR3D
MED26 MED19
COL4A1 KLK6
RBPMS POM121
XRN1 HEATR1
POU2F1 LIFR
NT5E LAMA1
HLA-B NUP43
ACTN4 GSN
P2RX1 P2RX2
SOAT1 WNK1
XPC ZNF512B
NKX2-1 CRK
NUCB2 NDN
YWHAB LBR
MYOD1 MDFI
GNGT2 GNB2
HTR1D HTR1B
MYC MXD1
ARPC3 EFTUD2
ADRA1B STAT1
YWHAB CGN
CREB1 DACH1
RNF123 GABARAPL1
PRSS23 ODF2L
ABCA1 DLG3
ABCA1 CREBBP
PKIA DYNLL1

RAN SMAD1
RAN SMAD2
CHAF1B ASF1A
LPL PLK1
VAV1 CDC42
HSPG2 NID2
CTNNB1 HDAC7
MARK2PARD6A
LDB1 TOLLIP
ADRB1 GOPC
ILK GEMIN4
ZNF91 MEF2C
FES HSH2D
MBP NEK9
MAPT SRC
MCM2 ELL
PXN BCAR1
SLC38A1 KCNA4
WAS EVL
ETS2 CREBBP
REL FOXP3
GATA2 HDAC1
HOXD4 ZSCAN18
SDPR CAV1
DZIP3 UBE2E2
PRPF40A DHX9
ATP6V1H PHLDA3
ATRX EZH2
ORC2 HAUS1
MBP MAPK15
ITGB1 GULP1
TRIM37TRAF4
MYH10 TNFRSF10D
TBP MDM2
RNF125 UBE2D4
PTPN6 CLEC4A
DRD3 GIPC1
SUPT5H PRMT1
CD2BP2 TXNL4A
KIF5A KLC3

SNRPB PRPF8
ARPC2 ZMAT5
HRAS ZHX2
SOS1 LAT2
SYNCRIP HNRNPH1
UBC PHB
LRP2 GPRASP1
CELF2 APOBEC1
TERF1 ZBTB16
PPARG CREBBP
CAV1 LRP1
TCP1 SH3BP4
TGFA GORASP1
MEN1 STUB1
LRSAM1 PHF23
RGS16 GNAI2
SART3 C3ORF26
HDAC3 NR0B2
USP7 CBX8
TUBB4 LAPTM4A
SMAD3 MAGI2
F2 AANAT
YWHAE ZNF839
CEP110 MAX
KRT78 CDC42BPB
PDCD6IP PLCB1
EIF2S1 EIF2AK2
TP53 TFAP2A
GNL1 ZNF182
GABRB3 ARFGEF2
HSP90AB1 STARD13
PLCG1 MST1R
DAZAP2 NDUFA5
HBP1 GKAP1
FXR2 CYFIP2
KIFAP3 RBFOX1
NFKBIB HSPA1B
ABL1 APP
RHOB RHPN2
JUB LATS2

LRP6 WNT1
NAA38 IGHMBP2
HNRNPC PHKB
PIN1 STIL
PAFAH1B2 TIMM50
EPC2 ING3
MUC1 GALNTL2
GNB2 TRAF6
GFI1B COPS5
IKBKAP NIPSNAP3A
PDGFB PDGFA
FXR2 FMR1
FN1 HGF
HNRNPU GPRIN1
SGK1 TUFM
UQCRB TOLLIP
MRPL4 DDX24
CSNK1E OCLN
QTRT1 NDUFA4L2
NASP GABARAPL2
RAF1 NR3C1
PFN2 SIN3A
PHLPP1 USP1
DDX3Y RPAP1
EEF1D SUPT6H
GPR158 PITX2
SF3A2 CCAR1
IL2RB JAK3
OGG1 PRKCA
HIST1H1C F10
DYNLL1 MYO5A
KLK3 PTHLH
SPN SIGLEC1
PAX5 CREBBP
EFNB1 TIAM1
HDAC3 SAFB
MPDU1 HERC2
CLN3 CCDC47
ARID1A SMAD2
KCNH4 MAPK14

ARHGDIB CUL3
TOP1 BTBD2
PPP1R13B TP63
PLAT ANXA2
GHR STAT5B
ANTXR2 SMAD2
EXOSC7 EXOSC6
ANAPC2 FZR1
PRKCA RGS7
SHBG C17ORF65
TNFRSF17 TRAF3
ABCA1 SNTB1
PFKM ATP6V0A4
HCK LCP2
ARL1 GOLGA1
LMNA SRRM1
PPP1R15A POU3F3
UBA1 HSPH1
VPS36 SNF8
MEPCE ARID3B
RIPK2 VDAC1
UBOX5 UBE2D4
RAC1 ITPR2
RPS27A RASGRF1
RAB4A PRKCI
BCL9 TCF4
FUS PTBP2
CDH1 PKP4
TFAP4 FBXW11
IPO4 NEK6
FOS CEBPG
NTRK1 PLCG1
POU2F1 SOX2
USP7 ARNT2
SNTA1 GLS2
HCFC1 SUDS3
CCNB1 HERC5
JAK2 ALK
PTN PTPRS
SURF4 SERINC3

POU3F2GTF2B
MAP3K7 HSP90AA1
CSTF2TUBQLN1
RPF1 CASP6
RPF1 CASP7
F2RL2 SRC
RPS16 CNBP
HOXB9 KRTAP4-12
PRLHR PICK1
BSG ATXN10
STRN3 CTTNBP2
H2AFX EIF3L
CHMP1B CHMP4B
STAT1 CSE1L
RHOA GMIP
H2AFX RUVBL1
HDAC1 PLAGL1
ZNF1X1 UBE2D4
CDKN1B CASP8
PRMT5 JAK2
RUNX1 HIPK2
ADRB2 MAGI3
SMAD2 NOTCH4
YES1 KIT
SMAD3 ZNF329
PLK4 FAM46C
SMAD3 BPTF
PRKCD PTK2B
CBX2 RNF2
MSX2 TLE2
YWHAH KCNH2
PAN2 TWF2
BCOR CPNE4
MSX2 TLE1
SF3A2 SUGP1
RUNX3 TCF7L2
AHR SMARCA4
BLVRA MAP2K1
BRCA1 NUFIP1
ITGAV ADAM9

SMAD3 RSPH3
GFAP PSEN2
INSL6 BRMS1
PTPN11 GRB7
SUMO2 SENP3
PGRMC1 EIF1B
F2RL2 ABL1
COL1A2 SPARC
RAF1 RAP1A
RAF1 UBE2D2
TAGLN2 IKBKE
MYC CTNNA1
FN1 FST
GNAO1 TSHR
PRKCD PPARA
ABCC9 STX1A
HIST1H1B EHMT2
APC2 CDC16
NOTCH1 HIF1A
RPL7 NFKBIB
HIST1H3J EHMT2
ECHS1 HLA-B
CCNA1 MCM6
MAPRE1 COPS5
SNAP25STX5
UBE2I ASF1B
CSF1R RASA1
TP53 SUMO1
PDGFRB NCK1
SRC PTPN11
CCKBR GRB2
TSC2 YWHAH
SF3A2 CHERP
GNGT2 GNB1
HOXB9 HOPX
PPM1D TP53
SERTAD1 PRDM4
SELE GLG1
FAM46A RNF14
MBP PRKCD

CSNK2A2 TCOF1
EXOSC7 EXOSC5
ACE COMT
ITGA2BTLN1
TADA3 CCDC101
HNRNPA2B1 TOB1
TGOLN2 ITGB1
TP53 PPP2R2A
MX1 TRPC3
CEBPE ZMYM2
VHL KRTCAP2
GRB2 RAB6B
ACTR3 WASF3
BCL2 ATP2A2
ARIH2 SCAMP2
LSM1 TMEM214
CYTH2 ATP6V0A2
CBFA2T3 SIN3B
BRMS1 HDAC5
PNP MCC
PIK3R2 CD28
MYD88 IL1RAP
BPGM AKT1
YWHAZ WDR61
CALCOCO2 PTBP1
MAP3K1 DTX1
SHC1 PTPN11
HSP90AB1 SUMO2
TP53 ADH5
TOM1L1 RAB18
ZEB1 SMAD3
HIP1 TFAP2A
SMAD3 FOXO1
PDGFRB PTPN2
TUBA4A RACGAP1
GNAI3 RGS2
POLD2 WRNIP1
SOCS3 EPOR
GNAI1 CD47
SMAD3 SREBF2

MMP3 SPOCK3
UBE2Z PLEKHF2
SMC1A SRRM1
NCK1 PALM2
GRK5 AVPR1A
VPS36 CHMP6
MARK2KIF13B
ELK4 ID1
DAND5 MAPK3
CTNNB1 PITX2
MCC CDKN2A
HDAC1 PADI4
PCGF2 PHC1
H2AFX MAPK8
NCK1 NCKAP1
GRIA2 SPTAN1
PCNA HLA-B
CMPK1 PRKAB1
PIK3R2 KIT
MAVS MFN1
BDKRB2 PRKCD
GGA2 BACE2
RB1CC1 MAP1LC3C
AP2B1 AP1M2
STAM2 UBC
DDB1 DCAF4
CDC42 VRK2
PKN1 ARHGAP26
ZNF24 INSL6
BRCA1 MED13
LDB2 LHX9
MAPK9 SF3B4
GRB2 ECT2
HNRNPA2B1 MAX
LYN TRIP10
AP3D1 MAP2K7
PHB CWC15
POLR3D POLR2H
ADAM9PACSIN3
MYO1CNEK6

GRB2 KCNH7
TBP TAF15
PRKAR1A MYO7A
ATP1A1 SNX6
ANXA2 S100A10
APOE MAP2
MYCN MXD1
TGOLN2 IGF2R
GRB2 DROSHA
MET RPS27A
HLA-B PPP2CB
B4GALT3 ARL15
ISL1 RLIM
PPARG COPS5
MET GRB2
RAB17 RABAC1
CREB1 HDAC8
REL UACA
PRPF40A UBQLN2
KCNK3 SFN
EIF2S1 PPP1CC
KCNK3 YWHAB
PFDN1 PFDN2
HIST1H4I PAK1
YWHAZ WWTR1
CAPN2 CAPNS2
YY1 EP300
AIRE HIST1H3J
NLGN2 WNK1
SMARCA2 MCPH1
DCX TRIM39
HCK ELMO1
DCD TNFRSF14
CAPNS1 CDK4
ERBB2 VAV2
GSN LIMK2
EIF4G1 NCBP1
SPTBN1 MEF2C
AASDHPPT USP22
CXCR2 CXCL6

ANAPC1 FZR1
ACCN2 PICK1
PRKCA GSK3B
PRKCA GSK3A
BCL3 MAPK3
PLAT LAMA3
CCT3 PPP2CA
EDN1 ECE1
PRRC2A WNK1
TAF13 TAF15
CCT6A MAP3K1
IRS1 ALK
NPM1 PADI4
ANXA2 CD99
AGXT2L1 WNK1
VCP UBXN6
IL1R2 IL1RAP
AKT2 FOXO4
ATXN1 RCN1
SFPQ SMARCA2
CTNNB1 PHB2
AKT2 XIAP
PTPRC GAB1
E2F3 DAND5
SLC9A3R1 CFTR
CALCOCO2 ZNF426
NUDT18 RABAC1
NCK1 TPSAB1
KRT18 PRKCE
APP CDC37
CDR2 MORF4L2
MAP4K4 MAP3K1
SUMO2 DDX17
NR3C1 MAFF
MAPK3 TGIF1
MAPK3 CAV1
KCNK3 YWHAH
PTPRB TEC
CD4 CD44
RAN GIT1

TG HSP90B1
GATAD2A DPEP2
GNAI1 S1PR3
CREB1 CHD3
MAPK1 CMTM3
HNRNPR PRMT1
ACTA1 MARK4
TXN TXNIP
AHSG AKT1
USP11 USP7
CTNNB1 IGF2BP1
RPS27ARNF43
OTUB1 PRKAB1
TARS ELF3
MEPCE DDX17
CHD1 SSRP1
SLC25A38 ZSCAN16
APBB1 EGFR
SHC1 PPP2R5A
RAB11B OPTN
NR3C1 RARA
PDLIM1 PGS1
ATXN7 PSMC5
MED7 LZTR1
GAST MME
NR3C1 AR
TGFB1 NAT8
COL3A1 HTRA1
SMARCA5 HDAC2
PSMA7 PSMA5
SPINT2 SUMO4
NFKB2 FBXW7
SMARCA2 SMARCA4
CA4 SLC4A5
ARAF YWHAH
UBE3A PHF17
RHEB RPTOR
NTRK1 MAPK3
TGFB1RAP1 UVRAG
CUL5 ASB7

APBB1 ABL1
TBL1X HIST1H4I
SMAD3 TRIM33
RBFOX1 NOC2L
CSNK2B FKBP3
WISP2 IGF1
PRKAR2A SFN
ABL1 CKAP5
TP53 UCHL1
HSPD1 GLUL
NPM1 ALK
SF3A2 SMURF2
ZZZ3 ZBTB9
PTEN SLC9A3R2
PVR PVRL3
MAP3K10 KIFAP3
KBTBD7 OBSL1
CASP7 RAD51
TGFB1 CHN2
TRAF3IP2 CD40
SUMO2 ERCC4
HNRNPA1 KHDRBS1
ENTPD5 PRKCA
KIF5B RRB1
ZNF461 TOX2
CSDE1 PABPC1
RPS6KA4 CREB1
FANCC RPL18
NCK1 DLGAP4
TACR1 TAC3
ICAM3 CLEC4M
TBP CITED2
DVL1 DVL3
PHLPP1 CSNK1A1
DVL1 USP13
CD8A HLA-C
SYNJ2 SH3GL2
GAST CPE
CDK1 AURKB
SUMO2 RAD50

BCAS2 CDC5L
EIF3F TRAF6
SPAG9 MAP3K3
MYPN TTN
USHBP1 KLHDC5
TNKS1BP1 CNOT6
YWHAZ MST1R
POLA2 ASCC2
PSMD10 PSMD2
RPA2 MED31
RPS27AMICA
BMP6 SMAD5
DNMT1 EZH2
EZR CNOT8
RNF8 UBE2E2
MAPK10 MCL1
CUL4A WDTC1
PTEN CAV1
TAX1BP1 TBC1D17
PRPF40A EVL
DDB1 MAP3K3
GALNT11 MUC4
KRT18 HSPA4
SLU7 PPIL3
APP TAF9
TPP1 NMB
NRAS RASGRP2
TARBP2 DICER1
CUTA NR4A1
PRPF40A WBP5
PIAS1 PIAS2
EEF2 PPM1A
PCBD1 CACNA1C
ID1 IFI16
SNRPC EWSR1
RNASEH2A JDP2
CXCL12 CXCR4
PRKCA RGS2
UPF3B USP21
TMED2 GORASP1

NAA38 PDCD2
MLLT3 APPBP2
PTPRC LEPR
DCTD NUDT18
UBE2D3 RNF14
HSPD1 CDK9
NCSTN APH1B
APP HMOX2
KLF4 HDAC5
HSP90AB1 RIPK3
POLR1A CSTF1
TRIP13 SEMA4G
HSPD1 SF3A2
TERT RPS6KB1
EIF3G EIF3B
ZNF259 CDK5RAP2
CSNK2A2 KLF1
MYC ICA1
NMT1 ARL5A
CDC45 TOPBP1
ITGB1 FLNA
ARHGEF15 MOBKL3
FAM175B BRE
TNFRSF17 TRAF1
EYA2 SIX1
LDB1 LHX3
CHM RAB1B
EIF2S2 EIF4G2
SMAD9 ZNF83
YWHAQ MST1R
PIAS2 SIAH1
MYOD1PHB2
UBE2D3 TRIM39
PPP3CARCAN2
CASK UIMC1
KDR SH2D2A
RAB1A MAPRE3
BAX BNIPL
CALCR TOPBP1
PIM1 MAX

CCDC42 TSC22D4
UBE2H RNF139
SRSF2 PPARGC1A
TGFB1 WDR33
AKT1 SERTAD4
KLF10 ZNF512B
PRKCD GNA13
OXT PREP
CENPB HAND2
DVL2 PRPF3
C7ORF64 C11ORF49
PHF2 SMC1A
LALBA CRYAA
NMI HDDC3
PPARD HDAC1
HSPA1B SRRM2
PML UBE2U
RAD51 FANCD2
CD82 HLA-DMA
CD82 HLA-DMB
S100A8 NCF2
STX4 LLGL1
MYC COPS5
PDCD6 DAPK1
PPP1CANOM1
JAK1 ELF3
GSN PIK3CG
RGS7 GNAI1
PTPN11 NEDD9
SKP1 NFKBIB
EGR4 NFATC2
CDKN2C NHP2L1
YES1 ADAM15
SMAD3 HDAC5
UIMC1 ERP44
CBX5 HDLBP
WNK1 TNS1
PRKACA RAP1A
EGFR ARF4
GAPDH ARL15

LRRC18 KCTD17
CLTC TRAF2
CD3D VCP
IL1RL1 IRAK4
EEF1A1MAGED2
COIL BYSL
SMAD9 RFX1
RAB26 RPH3AL
MUC7 GALNT14
BAX RNF144B
MYC SMARCC1
PRKCA TNNT2
GRB10 MAP3K14
MARK3 ANKRD7
PIAS1 UBE2I
CEBPD CEBPG
VHL JMJD1C
PEA15 AKD1
NR3C1 ZHX1
MYH9 TRPM7
MEPCE ARHGEF1
ITK SMAD4
MCC PUS7
LAMA5 PLG
DPM1 DPM3
NFKB1 BRCA1
TPR IFI16
ITGB5 FHL2
ANXA2 CDC42
FASLG DOCK4
MAP4K4 NCK1
MAGEA11 PSMF1
RASSF5MAP1LC3C
DAZAP2 ZFAND2B
MCC LRPPRC
IPO4 BRF2
FES RASA1
SYNJ1 SH3KBP1
HIST1H4I SUV420H1
CCR10 CCL7

ZNF177 PIGM
KDM6AZNF281
TERF2 POT1
RAB25 MED31
MXRA8 WNK1
TGOLN2 AP2M1
NCL CSNK2A1
PAK2 KDM2A
LMO7 UBAC2
NASP MAPK6
MAPK8 MAPK14
PLK2 DLGAP4
SPTA1 SPTB
LAMP1 SUMF1
GPRASP2 DISC1
ERBB3 SHC3
HDAC1 HDAC9
PDCD10 STRN4
HDAC1 REPIN1
APOE PSEN1
RARB RXRA
TAF1 CSNK2A1
RAD1 RPA1
RPN2 ADRM1
MYC ARHGEF2
CD151 PTGFRN
HIST1H2BJ LOX
EGFR PTPN1
FEN1 BLM
PSPH MOBKL1B
PRKCZ PRKCD
MYC HDAC1
SRF FHL3
ADAMTSL4 SORBS3
SRF FHL1
RBBP6 FBXO7
GLP1R CALM2
MYO1A USP20
MAPK3 PPP2CA
MCM6 USP49

DEK HIST1H4I
LDB3 MYOZ2
ACTR8 RUVBL2
ORC4 CCND1
SHBG KLK4
GPRIN1ERBB4
PRKCE TIAM1
RFWD3 UBE2W
MYC IQGAP2
DEDD CASP3
MYC SNW1
CUL2 TCEAL1
STK16 MBP
STAT3 NDUFA13
GABARAP GABRG2
COL4A2 HABP2
STK4 RASSF1
GATA2 NR2F2
MYC KAT5
PLCG2 BLNK
RFC1 SMARCA4
SNRNP70 DDX17
CCNA1 GANAB
TP53 UBE2I
CLNS1A EIF4A2
CHRM1 PVALB
MSL1 MSL2
EZR ARF6
COL1A1 MAG
MOBKL3 RB1CC1
NLGN2 NRXN1
KCNQ2 ARIH2
ZNF165 TCEB3B
FYN CD36
ERBB3 PIK3R3
RPS27ACKLF
PFKL TAF13
MYC SET
MITF MAPK1
CFTR SLC9A3R2

USP13 FAF2
NPM1 PPID
LAMA5 PLAT
SNUPN DDX20
PLEKHA5 PPP1R13B
PRKAR2A SCTR
PCM1 EXOC8
TCERG1 PIAS4
PLAUR FAP
YWHAB RIOK1
SMAD4 TRIM33
AIRE DDX5
CDK5 DNMI
MBP PRKCZ
GRB2 GRLF1
SNRNPB SRRM1
UBE2I MARCH5
CDH2 FGFR4
CDH11 ATF7IP
IKBKE TBCA
COPS6 FBXO44
SPARC COL13A1
TWF1 IKBKE
SYMPK CPSF2
GRB2 MYLK
SNRNPB PSMA3
CTNNB1 CDH11
CTNNB1 CDH8
CTNNB1 CDH6
RYK FZD8
PRRC2A GRB2
ADAMTS4 FURIN
AKAP13 BAK1
ITGB4 SHC1
PCNA CCL2
TGFB1 CDK17
TGFB1 CDK6
TGFB1 CDKL1
EP300 DDX24
SNX3 MCC

MEPCE LRRC40
TCTA SMAD4
NPHS1 KIRREL
BMPR1B SOCS6
MAPK8 FASLG
SRC GRB10
ATG2A GABARAPL1
TNFRSF10A TRADD
SYNCRIP CDK9
TEX11 RIBC2
THRB CNOT1
ALB ST13
BIN1 PLD2
MAP2K1 GRB10
TOM1 IL1R1
IL28RA IL28A
CRK ISG20L2
GRB2 ELF2
CHRNA4 CHRNB4
JAK1 ARRB1
MUC1 ERBB4
LLGL1 ACD
ABCD3 BRF2
FGR CBL
ABL1 FLNC
PLCG1 PDE4DIP
ESR1 SLC30A9
NFYC GLTSCR1
DLEU1 MED31
IPO8 KPNB1
TMPO LMNB2
PSMD4 PSMD6
RB1 ELF1
SHC1 PAG1
SUMO1 MEF2A
POLD1 UPF2
NTRK1 NEDD4L
LDB3 MYOZ1
MLH1 RPS5
PCSK2 PMCH

VCP STUB1
SMAD9 SMAD3
PIK3R1 PIK3CA
PIK3R1 PIK3CB
LHX2 LDB1
MYF5 TCF3
IL2RB IL2
ARHGEF6 PARVB
SMAD3 SVEP1
CDK1 CDCA2
HIST1H3J PHF20
EIF4G1 MKNK1
EPS8 PLDN
COX5A PINX1
TTF1 BAZ2A
LGALS1 LGALS3BP
PABPC1 TRAF6
NPM1 SREBF2
ARF1P1 AP4E1
PHF17 ING4
RHOC TRAF6
HDAC1 CCDC6
PPP2R1A TRAF3IP3
MAP2K5 BAD
LIN7A GRIN2B
MAP3K14 DDX21
SMARCE1 NCOA3
MED14 ESR1
HNF4G NR0B2
HNRNPA1 TOPORS
EEF1A1 CRCT1
GYG1 POM121
DVL2 CCDC33
NFKBIA SPRR3
TP73 HRAS
TRIO BLMH
DNMBPENAH
ITGA6 PXN
DHX29 TBC1D17
STAMPB MAP2K5

CDKN1A CASP3
NID1 LAMC2
LATS1 MYC
ADAM15 PACSIN3
GRIN2D NF1
CTNNB1 CDH15
FXR1 INSL6
YWHAG THRAP3
YWHAG WBP11
SNRPE GEMIN5
GIGYF1GRB10
FOXP3 HDAC9
RPF1 CPSF6
UNC119 RUFY3
CDK1 CALD1
LUC7L3 TLR10
ILK ARMC6
PLK1 SGOL1
FOS CSNK2A2
RAF1 PEBP1
PJA2 UBE2N
YWHAG LUC7L2
ACO2 SRRM2
WDR5 MAVS
NDUFV1 EWSR1
MAP2K7 BFSP1
NFKB1 RELA
SSR1 SEC61B
GPS1 COPS7A
CRK PPFIBP2
SF3B1 SAP130
APP PRSS2
DLX5 SOX10
SRC PLD1
MAPK13 SPAG16
CDK9 RQCD1
FN3KRP USP43
RDBP RPAP2
LCN2 LRP2
CLU XRCC6

PJA2 UBE2D3
YWHAG GIT1
AURKBNUF2
TAL1 TCF12
PABPC4 PINX1
SULT1E1 EEF1A1
PIIB MCC
RPF1 MLANA
MTUS2 ZFP64
HOXC4 PRKDC
NCK1 AGER
MYC TFAP2B
WT1 PAWR
ARAF PKM2
YWHAZ ARHGEF16
TAB2 TRAF6
SOX1 CTNNB1
RPIA VTA1
RAB11A FTSJ1
HSP90AA1 PAK1
YWHAG MAP3K2
RPS27A GRIN2B
UBE2D1 TRIM55
AKT1 MDM2
POLR2K SMYD3
IGFBP5 PAPPA2
MCL1 BOK
CAMK4CAMKK1
MAP7D1 GPRASP1
RFC4 RFC3
RFC4 RFC5
CASP3 ATN1
TCEB3 TCEB2
LIG4 APLF
KHDRBS3 HNRNPK
GRB2 SUV39H2
MCM7 TRAF6
HSPA1L MAP3K3
MCC NAA10
ZFPM2 MTA3

C4ORF17 COPS6
TCEB3 TCEB1
RPS27A MAP3K1
PSMD3 PSMD13
ZBTB7A SIN3A
APP BCAP31
MAPK13 KIAA1967
NR2F6 THRB
CCT8 GPN1
HPGDS HK3
PLCG1 FLNA
NT5C2 NUDT18
CHEK2 PPP2R5B
KCNC1 ANK3
CASP2 XIAP
DVL2 CPSF7
PBLD TRIP13
CHEK2 PPP2R5A
LDOC1 ZNF250
CUL3 KEAP1
CTNNB1 PKP4
BAD PIM2
PRKAR2A AKAP5
RB1CC1 CDK19
BAD PAK7
NBPF3 EWSR1
EPB41 CBR1
NFYB DRAP1
WASF1 NCKAP1
FN1 TH
BUB1 PLK1
OFD1 VOPP1
SLC9A3R1 SLC22A9
RXRA PRKD2
TGM2 RELA
CDC25B YWHAZ
CTPS YWHAG
BRF1 POLR3F
PSEN2 ECSIT
GTF2F1 GTF2A1

USO1 RAB1A
MYC ATP2A2
VCAN XCL1
WNK1 CENPJ
STAG3 SMC3
ARL2 TBCD
FUNDC2 ARL15
MEF2A ITSN2
RAD1 FEN1
MCC IARS
TAF10 FAM48A
FOS NEFM
C17ORF28 RBBP8
SAP18 NCLN
EPS8 MYO15A
BAG2 RELA
CTBP2 PNN
CRYAB HSPB1
RPF1 NFE2
NEFM ETS1
GTF2E2CKLF
BRF2 CCDC59
SMAD3 PRDM4
IKBKE VAMP3
BRF2 PTPLAD1
RPF1 SRSF7
TP73 TTLL5
PEX6 PEX26
UBC IKBKE
ZBTB48C7ORF34
RIPK2 RPL38
VCP NSFL1C
YWHAH RIMS2
ESR2 MED17
ARF6 FANCI
TOP1 SRSF11
HLTF BRF2
FURIN ADAM19
PSMD11 IGSF21
HOXD13 SMAD5

UBE2E2 STUB1
PPP4R2 DDX20
ACTN4 CTNNB1
SOCS3 PTPN11
ACTN4 NOS2
MTIF2 NFKBIB
HSP90AB1 PPID
YWHAG RSRC1
CDC37 LOXL4
NUDT21 NIF3L1
PTP4A3 CDK2
GTF2F2 POLR2G
RAB1A GOLGA5
XRCC5 HSF1
ACTN2 ST7
ITGB1 GNB2L1
AKT1 PAK6
CDC25B FOXM1
PPP2R1A NFKB2
ATXN1 TRIP6
MAP3K7 PPM1L
CD4 PTPRC
THRA SLC16A2
PIAS2 NAV2
MAP3K8 LGALS3BP
TES TLN1
SHC1 CD81
PRMT5 CTDP1
MAP3K7 RELA
SNUPN PEX5
TMED10 APH1A
CCDC130 EEF1A1
CDC34 PPP1CB
INADL KCNJ15
TLE1 SIX3
ANGPT2 TEK
SCAND1 ZNF434
MEPCE MOBKL1B
UBQLN4 MIF4GD
RAF1 YWHAQ

MAPK13 PRKD1
IKBKB SRC
XRCC6 KIAA0182
XRCC6 NCOA6
USP14 CXCR4
PLCG1 ITK
TCF3 TAL1
PSMD11 TUBB2A
CHMP2A USP8
CASP3 NFE2L2
SQSTM1 SH3KBP1
SNAPC5 NOL4
CASP9 BIRC7
TK2 C7ORF64
AP2M1 LY9
PSMD1 TNFRSF10D
HNF1A KAT2B
CSDA PCBP2
KRT31 LYAR
UBE2D3 RNF11
CSTF2 CSTF1
HMOX2VOPP1
PTPRC CD79B
LZTS2 PAK7
CCL4 CCR1
ATAD3B USP20
NFYB TAF6
SNRPD1 SNRPD2
LGALS3BP MAP3K1
PBX3 AGTRAP
PSMD14 SUCLA2
CDC20 RASSF1
TSHR GNA11
DNPEP PADI4
SRF GTF2F1
HSP90AA1 TRAF1
PPP1CBRIPK3
BACH1 BRCA1
KIF3C DISC1
GATA3 TBX21

GLIS3 SUFU
SSR4 SSR3
PDK2 ISOC2
ALOX5 MAPKAPK2
POLE2 EEF1A1
AP1G1 NECAP2
NCKIPSD DIAPH3
NIF3L1 MLXIPL
NFYA ELF1
RAB25 PKIG
FYN NCK1
VHL HIF3A
SCAMP2 YWHAZ
VHL USP20
GRIN2B CAMK2A
SSSCA1CCT5
EWSR1 ZNF383
CREB1 PPP1CA
FSHR ZBTB16
ATG13 ULK1
PHB SIN3A
KDELRL1 WBP5
STX11 VAMP2
RASA1 EPHB3
ASH2L HCFC2
ERCC5 TAF10
WDR5 KIAA1267
NKX2-5TLE1
SYTL4 USP20
HSPA1B TTC1
SMNDC1 SNRNPB
SAP18 HSPB1
CALCOCO2 TP53RK
ACTN2 DISC1
PNLIP GRB2
C7ORF36 KIAA1377
RDBP THIL
PABPC1 MAP3K14
SNCA SLC6A3
RIPK2 TRAF2

MAP2K6 MAPK12
PSMF1 CTBP2
PKM2 YWHAZ
MYO1APHLDA3
ELL ZHX1
SEMG1 SEMG2
MCC GNPDA1
IRF9 DACH2
MCC EIF2B1
STK25 STRN3
CREBBP CDK5RAP3
AZGP1 USP53
POLE TOPBP1
KRT85 DLG3
CGN TJP2
RNF31 RBCK1
UBE2D2 BIRC3
CCL18 C14ORF1
PTPN6 PILRA
INPPL1 SORBS1
PTPN6 PILRB
MDC1 SMC1A
DNM2 CCR5
RAF1 MAPK3
TOM1L1 GLUD2
HNRNPL DOCK4
FBXO18 PIM2
MMP1 CCL7
BRCA1 MAP3K3
BTK IBTK
EIF2AK2 STRBP
KCNC1 KCNV2
GLRX3 ADAMTSL4
PCBP1 PDLIM7
FSHR YWHAQ
STAT3 CTR9
HSP90AA1 FAM162A
SNRPA SMAD5
UBE2E2 TRIM2
ANXA2 S100A4

EED DNMT3A
GTF2B NCOA3
KHK CDK5RAP3
BRCA1 BARD1
SPTAN1 IKBKE
PIK3C2B PDGFRB
DARS EEF1A1
TEC FASLG
MLH1 RPS27A
MTNR1B HNRNPA0
STX6 VAMP4
KAT2B NOTCH3
PLRG1 BCAS2
HIF1ANASB4
PDIA6 TNFRSF14
APP LDLRAP1
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SPTAN1 ABI1
TOM1L1 PIK3R1
SRSF3 NXF1
PPP3CAFKBP8
KLRB1 CLEC2D
DNAJA1 RIPK1
OPRM1 GPRASP1
WNK1 MSL2
C4ORF43 LYAR
AHR DAP3
KIF5C CSNK2B
NFKB1 COPB2
MCM7 PRKAB1
FANCA PRPF31
PRNP TSC22D4
GRB2 SH2B1
MELK CDC5L
SLC22A5 PDZD3
PTEN STK11
BRE SLC25A13
HSPA1B MAP3K5
BRCA1 RBBP8
SCNN1A RPF1

LANCL1 YWHAZ
PABPC4 INSL6
G3BP1 NUP188
CDK1 CSNK2B
MPHOSPH10 PPP1CA
IKBKE TICAM1
FANCA FANCM
XRCC5 NFKB2
PLEKHA5 RBFOX1
DLGAP1 PIK3R1
YWHAG EPB41L3
CALML3 KIAA1683
BCL2 MCL1
FOS NACA
USP11 AMOT
BCL2 BAX
PIK3R2 ERBB2
BCL2 BCL2L1
CAPN1 UFSP2
PI4KA MTNR1B
PIK3R1 SSTR2
API5 PRKAB1
YWHAB RP5-862P8.2
ILF2 MEPCE
RRAS SOS1
GRM5 HOMER1
ITPK1 TRAF2
NOL3 BAX
VHL UFC1
LCK TRAT1
PARN NCBP1
ARHGEF18 WNK1
ZYG1 ENAH
ARF6 SMARCC1
SRC ADAM15
TFE3 NAP1L1
PSME1 ITGB3BP
CCDC116 KRTAP4-12
YWHAG PTPN14
PHF14 ETS1

ADCY2 GNAS
CD44 ARHGEF12
ANXA5 PPP2R1B
ATP5J2 FBP1
ACLY CCNA1
PBX2 CENPBD1
XRCC6 ZNF512B
ANK1 SLC4A3
TAF13 TAF9B
IPO7 YWHAZ
TLE1 MPHOSPH6
MSX1 TLE1
LIN7A SLC6A12
ABLIM3 ACTC1
PARD3 PARD6A
TM4SF1 TUBA4A
MCM3AP TRIB3
HOXA1 EFEMP2
VHL MRPS23
RAB11A TRAF6
ESD GRB2
ARAF TH1L
GRIN2B EXOC7
VHL MRPS16
PPP4C CCT2
PPBP SCFD1
SOX3 SUMO1
SRC NCOA6
GPC4 SQSTM1
MED22 MED28
CDKN2C APLP1
EIF4B RPS6KA1
GNAS SNX13
CCNT1 NUFIP1
YWHAB WDR77
MPG PAFAH1B2
DLK2 KRTAP4-12
WNT3 FZD1
PKD1 PKD2
KRT31 DLG3

LIN7A KCNJ4
VHL CCDC82
FASLG SNX18
PTPN6 SPATA2
VDAC1 KIF5B
POLR2E MED19
SNIP1 DROSHA
MBD4 FADD
RPS27A TARDBP
TRIP13 PARP11
FLT1 ATR
RIPK2 GXYLT1
PIAS2 STAT4
SKP1 FBXO6
LDB2 RLIM
SYNCRIP SYT8
PSTPIP1 DSPP
SKP1 FBXO8
CXCR2 ST13
CREB1 KIAA2026
RPL5 RPL23
PTP4A2 CNNM4
TNKS MCL1
PRKG2 LASP1
CANX PDIA3
SYCP2 CAV1
MYOD1 RPS27A
ACTA1 ACTR10
RPS27A AIMP2
AR NR5A1
RPS27A FADD
TCAP MYOZ3
RAB11A MYO5A
MCPH1 SMARCC2
YWHAG NCKAP1
HDAC3 CBFA2T3
NOP56 MEPCE
FN1 KLK3
ACP6 DHCR7
PRNP APP

CYP27B1 MED12
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RBFOX1 MAGED1
PARK2 HOMER1
RB1 CBX1
SIPA1L1 SFN
STAT5A SMARCA4
PRPF3 USP39
VHL MOBKL3
SNIP1 TOPORS
THBS1 CD47
EWSR1 SALL2
KAT2A TACC3
RB1 RING1
GNG7 GNB3
SKI SNW1
HLA-B SND1
PCGF6 PRKAB1
ACTN4 SLC2A4
TRAPPC3 FASN
MCM7 RBM8A
POLR2H IKBKE
RLF RIT1
EIF4E2 MDFI
MED28 MED4
RPS27A PAK2
RPS6KA3 PEA15
MON1B VPS33A
MAPK14 DUSP22
EWSR1 PRKAB1
PARK2 FBXW7
RBBP7 NR2E3
FAM3A PSMD4
PPP2R1A PPP2R2C
CRMP1 FAS
MKRN3 UBE2V2
EXOC7 ARFGEF2
OMA1 APLP1
BCL3 CYLD
MAPK14 DUSP7

MAPK14 DUSP6
MANF IKBKE
GPRIN1PLCB4
CD8A CD8B
RTCD1 RPL28
MCM7 ORC6
A2M MMP2
PAK3 NCK1
SH2B2 EPOR
CSNK2A1 SIN3A
GRB2 PTPN14
PPP4C IGBP1
YIF1A YIPF5
UFM1 UBE2D2
RABEP1 GGA2
RABEP1 GGA1
PTPN6 TFG
CASP3 BLM
PAX8 RSBN1
GH1 LTA4H
RPS27A TRAF3
CBFA2T3 NCOR1
AGPS ATG16L1
RAF1 RSU1
H2AFX MRE11A
MAP3K7 EPRS
USP8 CHMP1B
EEF1A1RSRC1
AXIN1 MYC
PTP4A3 EIF4G2
PTP4A3 GTF2I
VCL VASP
BCL10 CARD11
BCL10 CARD14
EEF1A1BBS2
GTF2B MKX
AKAP17A EIF4A2
GHR NCK1
SNAI1 TP53
CDH1 ACTG1

HDAC3 BRMS1
LPHN1 DLG4
RPS5 RELB
TOP1 TOPORS
PTPN6 SIGLEC10
GPS2 NR0B2
ITGB2 PRKCA
TBP TCEA1
CHAF1B SETDB1
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CCNT1 AFF4
EFS SORBS3
STAT5A BRCA2
CASK HGS
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SUPT7LSERTAD2
ZSCAN20 SCAND1
CD79A FCAR
AR SELENBP1
TPT1 VHL
MITF PAX3
FYN PDGFRB
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APP NF1
GSK3B RCAN1
APBB1 ERBB2
FKBP8 WNK1
HSPD1 BAX
KDR CRK
CCNA1 SOAT2
PIWIL1 TP63
UBE2D2 RNF2
NCK1 SNX17
MZT2A IKBKG
NOL3 ETNK2
PPP1R8 C7ORF64
HTR2C LIN7C
COL4A1 ACHE
SMNDC1 KPNB1
RPP30 BVES

PTP4A3 PSPH
KALRN FASLG
CAND1 DCUN1D1
MAPK1 CALCOCO1
GRB2 FAM59A
NCK1 ACAP1
CDH5 CTNNB1
SYNCRIP TP63
CDH5 CTNNA1
MITF PIAS3
HNRNPM RELA
PARK2 PLCG1
RCBTB2 COPS4
PPP1CACDC5L
PRKCA SEMG2
GOSR1 SNAP25
AP2A1 MYC
IKBKB LYZ
NUDT21 RNPS1
APP APLP1
NARS IKBKE
NCOR1 HDAC7
FN1 P4HB
CCNA1 RBM4
CASK APBA1
SLC9A3R1 ATP6V1E1
DNTT XRCC6
LDB1 LMO3
UBE2D1 RNF26
ATG16L1 GABARAPL1
ITGB1 FBXO2
INSR IGF1R
HAT1 HIST1H3J
POLR2B RPAP3
GRB2 HMGN3
TRAF2 TIFA
RGL2 CCDC90B
MAPK1 STAT3
SUPT5H DBN1
PPM1A PRKCD

CCL4 CXCR5
NOP2 MAP3K1
PGR SORBS1
HOXB9 BTG2
FAS MAP3K5
MARK3HDAC7
NFKBIA RELB
QKI RNF138
BCL2L1SPNS1
ALOX5 ALOX5AP
RGS14 GNAO1
MED10 MED20
LDOC1 SETD5
PPBP DMWD
HSPB3 UNC119
CASK EPB41
HDAC3 NR2C1
SMAD3 GGA1
RAB3D RIMS2
MEN1 FANCD2
SYT1 SIN3A
TPST1 GPR1
CLU VLDLR
AK2 IKBKE
PIK3R2 SOS1
POU2F1RELA
HIST1H3J PHF20L1
RUNX2 TAF1A
NOTCH1 CNTN1
INHBA INHBB
OMA1 ITGB5
FYN CTLA4
VTN PLAUR
ACTN2 DLG4
TCF3 PRKACA
SLC7A9STRN4
ITGB1 EPS8
ABL1 ITGB2
PTN PSMD2
CUL4B DCAF8

SLC1A1EWSR1
NCOR1 ESR1
BCR PTPN11
SMARCB1 KLF1
EPB41 CD44
TCEA2 CENPT
LIN7B GNG13
NECAB2 CCDC33
MTM1 MTMR12
CENPA ACTB
BCAR1 YWHAZ
GRB2 MEPE
PXN RAB8B
SAP18 RPN2
RASSF5ERP44
MAP3K7 XIAP
MYH11 STAT1
RNF213 MCRS1
APOA1 APOB
SRCAP CARM1
TTI1 PTP4A3
EIF4G2 EIF3A
ST13 MEF2C
RIPK2 UBE2I
DPEP3 GATAD2B
ERBB2 GRB2
FASLG FNBP1
GSK3A SPICE1
ERBB2 RPS27A
INTS8 UBE2Z
MAP2K2 CNKSR1
RCHY1 GORAB
USP7 CLSPN
STX2 STXBP2
CNTFR APPBP2
SCN5A SNTG2
SLC25A6 NFKB1
EIF2B2 MAPK14
GRB2 SH2D4A
STX2 VAMP3

RIPK2 ACTG1
RPLP2 NFKB2
LUC7L3 COLEC11
MSN FADD
MCM6 IL1F5
CASP3 XIAP
CUL4B WDTC1
RNF8 MDC1
APC USP9X
SMAD3 LEF1
TADA3 CTNNB1
RIT2 RGL1
TRIP11 TRIP6
EID3 CREBBP
CBL MYO1E
MAGEC1 ECHDC2
ACVR1 NEK8
TGFB1 CTGF
STX6 VAMP8
UCMA MEP1B
SMARCB1 ATM
STRN3 CCT7
GPN1 DPEP2
TGFB1 PLEKHB1
NFKB1 MYH10
PAXIP1 SMC3
POP7 RPP25
JAK2 STAP2
IKBKE LRRC59
BNIP3L TMEM11
FER DNM2
UCMA MEP1A
EEF1A1 BTBD2
DAND5 SRF
CBLB ARHGEF7
HLTF UBE2V2
ERBB2 RPS27A
RUNX1 SIAH1
CCT6A STRN3
MOBKL1A LATS2

MLL2 CTNNB1
NFKB1 MYH9
HDAC3 KDM4A
NFKBIA C14ORF49
PCNA DHX9
TUBA4A TAOK2
DCK MED19
SMAD5 MTMR10
GH1 MTHFD1
ERH RNPS1
MYH10 STAT1
SIN3A MXD3
DAND5 CDK4
ELN NID2
MT-ND5 DAND5
LCK STAT3
MYO7AVEZT
BMPR1B NKIRAS1
ACTA1 CLIC5
VAMP4 VTI1A
PIP4K2B BTK
DYNLL1 PHLDA3
ZNF607 MDFI
PSMB4 POMP
KRT34 YWHAG
TPM3 VDAC1
BRF1 PCBD2
RPA3 RAD52
GRM7 GRIPAP1
DAND5 SP3
YWHAE GRAP2
UBE2D3 PRKAB1
SKI SMAD4
ABL1 PPP3CA
PRC1 TRIM37
MBP RTN4
CFLAR TRAF2
USP2 BEGAIN
ULK1 SYNGAP1
IGF1R PIK3R3

APOE ECSIT
NOTCH1 LFNG
OPRK1 GPRASP1
TLE1 HLA-DQA1
VPS28 TSG101
APOA1 LCAT
VIM DEFB1
SRC KCNB1
TDP2 TRAF2
NPM1 HLA-B
TUBG1 CEP55
TRIM23GGA2
NPM1 RELA
CD2BP2 KHK
TLX1 PPP2R5A
TRIM37EWSR1
GAPDH GSS
IKBKAP MAPK8
OGT SRF
TP73 MYC
RHOQ CDC42BPG
GNMT NUDT18
EPHA3 EFNA3
TLE1 FXYD6
EPHA3 EFNA4
EPHA3 EFNB2
BMPR1B RASL12
BCL2L1BCLAF1
S100A1 SMAD2
MF12 DERL1
ACAN FBLN1
LRPPRC ARF6
STAT3 CSF3R
KDM1ASETDB1
MYOD1RORA
BLOC1S3 MUTED
TNFRSF10B TRADD
KCNH4 GRB2
MAPK11 DUSP10
RB1CC1 SMCR8

AGRN DAG1
UCMA GRPR
CLINT1 GGA2
ACVR1 DUSP13
RAF1 RRAS2
YWHAG TAB1
DMD ACTA1
HSPA1B HCFC1
BAG6 EP300
DRAP1 PIK3R3
VHL NEDD8
PCBD2 DYRK1B
BIN1 ZBTB3
TAL1 RBBP7
LMNA KAT5
FOS CUL2
FSHR APPL1
UBE2U ANAPC11
FOS PPP5C
TOB1 KHDRBS1
CSNK1E CRY1
PSTPIP1 RPL35
SQSTM1 NSUN4
CLU LRP2
RAB14 SMURF2
COL4A2 FAM46A
SKIL CPNE4
YWHAG LRCH3
CREBBP HES6
FGD1 ELMO1
PSTPIP1 WAS
NUDCD1 USP36
CCT6A YWHAZ
NFE2L2NCOR2
PEX14 PEX13
SHC1 RET
HNF1A CREBBP
HLA-A PRKAR1A
PTPN11 LILRB4
ARF6 KHSRP

UBE2H RNF133
CEBPE DENND4A
EIF4E EIF4G2
HSP90AB1 UBA1
PIK3R2 CBL
PPP1CBIBKKG
PFN2 WDR33
COG3 COG8
PPFIA2 PPFIBP1
TAB2 NUMBL
CSNK1A1 ACTA1
HDAC1 ZNF148
WAS CSNK2A1
FES CSF2RB
UBE2D3 TRIM17
NTRK1 RUSC1
ATG12 KRT82
TAB2 TNFRSF11A
GRB2 TP63
IFFO1 RNF183
USF1 PRMT1
FGF2 CSNK2A1
GRIN2D SPTAN1
TGFB1I1 PTPN12
AIRE GRB2
SRPK2 RNPS1
ARHGAP21 WNK1
MAP2K1 TRAF3
NAT9 LUC7L2
ZNF250 HOOK2
SRC TRAF3
HSPA13UBQLN1
IARS AKTIP
FOS SUMO2
SORBS2 MAP4K3
DUSP19MAP3K5
RB1 PPP1CC
VCAN SELP
IL27RA IL17D
SETDB1 ATF7IP2

SF3A3 SREK1
YWHAQ MDM2
RPL30 NFKB2
CCL21 CTSD
MDM4 RPS27A
DPEP3 SRRM2
PIK3R1 GNAQ
TNF CDC42
TCEB1 ARID1B
ZFHX3 PIAS3
SMAD7 SMURF2
EXOC3 EXOC4
FLT3 INPP5D
CTSB ACAN
SFN CCDC101
CDK9 SKP1
MAF CREBBP
KDM1AHSPA1B
RAB1A MICAL1
DPPA2 AP2M1
TIMP2 NPEPPS
TP53 CYP27B1
AKAP14 MYCBP
C7ORF30 CHMP2B
NCK1 ERBB4
UNG RPA2
HLA-B TAGLN2
DPEP3 MBD3L1
FYN HOXC8
ATP1A1 CFL1
MCC DDX21
ENG ACVR2B
ITGB1 PDIA3
BTF3 MED21
TUBA3C TAB2
MED26 MED21
DNMBPWIPF2
GNA15 HRH4
USP13 ITCH
BCL10 CARD9

DRD3 CLIC6
MAGI2 DSCAML1
BMPR1B FANCL
LMX1B LDB1
PRKCB PPP2CB
IGF1R ARHGEF12
DNAJB1 CDC37
YWHAB CTTN
GBAS TARS
HCK INPP5D
CD1D P4HTM
COL2A1 MATN1
MYB NCL
APOM KLF6
CPN1 CPN2
PREPL USP22
CDKN2A MCM10
LCK PTPRC
UBE2D3 RNF114
VPS35 TRAF6
FGFR1OP PPP2CB
LRP3 GGA2
TNFSF15 TNFRSF25
LRP3 GGA1
EIF1B CSNK2B
PSMD14 RBM15B
COG2 COG4
RPS29 STYXL1
CREB3 EMD
CALCOCO2 TRAF2
CUL4A WDR5B
PPM1B S100A8
CDC73 FIP1L1
SFN EDC3
RPL5 RPL11
ADORA1 GNAS
GATA2 AKT1
MAPK14 PI4K2B
NTRK1 IRS1
DNAJC19 TIMM17A

QARS PRRC2A
ATG16L1 GAN
CYP2C8 BLMH
LYN CD22
FCHO1 ZBTB16
MYH9 MARK4
NCL S100A11
ASXL1 BAP1
STK25 YWHAZ
SUMO1 CNTN2
RPS6KA4 MAPK1
SEPT4 SNCA
SOX10 UBE2I
DLST DLG5
MAD2L1BP KAT5
XPA MSH2
PACSIN1 PACSIN3
ACVR1 PLEKHB1
TUBB2B HDAC6
CASP3 PKN1
CASP3 PKN2
XRCC4 C9ORF82
MRPL41 TRIM63
CTSL1 CD7
NEBL ZYX
MED12 MED10
EEF2 NDRG1
DNASE2 RUVBL2
SUV39H1 RUNX3
CIAO1 MMS19
CBX1 EHMT2
ACTN2 MYOZ1
RBFOX1 NUMBL
IMMT FAM173A
GRB2 SS18
CBL PTPRJ
SRC CBLB
MAGEA1 TRIM31
EMD DPY30
TICAM1 AZI2

MTA1 BCL11A
DVL1 SMAD7
PARP1 RBM14
SS18L1 RFX6
SIAH2 AFF1
JUND DDIT3
GHR PRLR
TFAP2C CITED4
ATG2A MAP1LC3C
ITGAV PDGFRA
RELB CIQBP
EED EZH2
CSTF1 BARD1
DNMT1 CXXC1
YWHAZ SYNPO
THRA CCND1
UBE2D3 TRAF6
AP1G1 CLINT1
TOP1 TDP1
IL2RB PIK3R1
PTN GNB2L1
RPS27AXRCC4
VEPH1 TSC22D1
OMA1 APP
MCM7 IKBKG
PAPSS1 EEF1A1
HOXA11 FOXO1
CCND1 HERC5
WDR48 GPN1
HSPA1L MAP3K14
MTF1 AP1M1
LHX1 LHX3
PIN1 CHPF
PDGFRA PDGFC
UBE2D3 RNF115
ARHGEF19 DAAM1
ROCK2 IKBKE
CIAO1 FBL
YWHAG PGAM5
RAB37 EWSR1

CEBPB PPARG
PITX1 NR5A1
RPS27A BIRC3
PAK7 LZTS2
ABL1 EPS15
EIF1B SEC11A
MARK3 PKP2
HIST1H3J TSSK6
ESR1 RELA
RPS27A SMAD4
RAMP2 IAPP
FYN SPN
COX5A VHL
PPM1B ISG15
KIFAP3 DISC1
ATG16L1 ATG5
CENPN AKTIP
TPM3 SUMO4
GIPC1 NTRK2
RPS27A BIRC2
TACR2 TAC1
GLRX3 EFEMP2
ZNF155 NDRG1
PWP1 LYAR
ACVR2B IGSF1
PRPF4 VBP1
RB1 BDP1
FYN ITGB4
SMAD4 SMAD9
ARID1A HIC1
ZNF587 RAPGEF2
MAP2K1 PAK1
PSMD8 SMAD2
RPS6KA3 GSTK1
COPS6 COPS3
ACTA1 KIF23
MAP1LC3C ATG4B
EMD YWHAE
SNAP91 AP2A2
HES1 FANCL

SNAPIN BLOC1S3
ABCD3 ABCD2
SNAPIN BLOC1S2
DLGAP1 CTNNB1
KCNH4 MAPK3
ZAP70 GAB2
GRB2 ARID2
GTF2B CTDP1
XIAP XAF1
TGFB1 DCAF12
CCNT2 RB1
NIF3L1 PRTFDC1
MDM4 CDK1
MYOD1DDX5
FSHR GRK6
DDX5 SMARCA4
DEK EP300
NEDD4L NDFIP2
SRC PAK2
GRM5 PRKCD
FXR2 C19ORF50
COPB2 TSC22D1
CASK NRXN2
HSF1 PPID
ARHGDIB RAC1
VIM INSL6
TNFRSF1B TRAF3
S100A9 ILK
SMARCA4 SMARCD1
HSPA1B HSF1
PDPK1 PNN
PSMA7 RIPK2
GNB1 MST1R
VDAC1 C9ORF163
HDAC2 WHSC1
SNRNP70 PRKD2
GRB2 PTPN23
KPNA3 RELA
PSMD10 PSMC2
PSMD12 PSMD10

MDFI LRDD
HTT RPS27A
PPFIA3 PPFIA1
TADA3 KAT2A
MDM4 TP73
CSK DAG1
EZR PRKCA
C14ORF48 SKA1
TERF2 TERF2IP
KRT33B USP15
BCL6 EP300
TADA3 KAT2B
TNP2 PARP2
PRMT2 ESR2
PSMD6 MTHFD1L
YWHAZ KIAA1429
UBC FBXL15
MYC NUP205
DCTN1 BICD2
STAT3 EP300
FXR2 RTN3
MYC GCN1L1
CSK SCARB2
PSMB4 TRAF6
GNB2L1 GOLM1
MYOG MEF2C
TCAP SMURF2
TUFM TRAF6
SDPR PLEKHF2
HSP90AA1 HSPD1
DVL1 AXIN1
GRB2 HIPK3
PSMB6 EZH2
TGFB1 ASH2L
HNF1B CREBBP
SYT1 RBM14
STK16 ADAMTSL4
SNRPB STXBP2
ACTN2 MYOZ2
CYTH3 CYTIP

DUSP1 SKP2
DOK2 SRC
VEPH1 SMAD1
HSPB3 PRPF4B
ATG12 ATG3
COL1A1 CD36
DST PRKD2
RB1 SKIL
HSPG2 FGFBP1
RB1 SKI
HTT GRB2
SH3GL2 ASAP1
GFI1B RINT1
EGFR RPS27A
DLG4 ATP2B2
SNTA1 KCNJ12
TRIM32UBQLN1
TUBA4A ARHGAP1
PPIH PRPF18
ACTB PFDN4
ENSA ENO2
IL1RN IL1R2
HDAC1 MTA3
TP53BP1 MCPH1
EGFR GRB2
RPS27A PIN1
GSPT1 ATXN1
AIRE HIST1H2AC
GTF3C1PRPF38A
DNASE2 RUVBL1
ANAPC7 ANAPC10
CD3E ZAP70
EPS15 CLINT1
UQCRC1 CYCS
CD3E SYK
CSH2 TSC1
PTPRC CSNK2A2
MARS NFKB2
MXI1 MYC
ERBB2 MUC1

GEMIN4 GIPC1
SNTA1 SCN5A
PER2 TIMELESS
PABPC1 ATXN2
MYCN CSNK2A1
NR3C1 PRKDC
CDC45 CDKN1A
PLCG2 EPOR
ZFP36 YWHAB
MAPK9 DUSP10
KPNA3 RAC1
ZFP36 SFN
HPRT1 VHL
TNFRSF1B TRAF1
YWHAZ MINK1
HMOX2CSNK2A1
RPS27ASQSTM1
EIF1B UBE2I
KRT4 APC
TLR4 BCL10
TCERG1 SFPQ
CALU APCS
GRB2 TMX1
SLC9A1CALM2
GNG4 GNB4
XRCC5 NAA15
HDAC3 SAP30
PRKCH FAM50A
RFC1 RELA
PRKCA CD9
ITSN1 PIK3AP1
WFDC5 SMC3
SNRNP200 PRKAB1
MSN ROCK1
ZAP70 SH2B3
KIF5B RANBP2
WAS CIB1
TIMM23 TIMM17B
CBX7 H3F3B
CSK FHL2

RGS20 TRMT112
SAP18 PCBP3
GAS8 TP63
DRG2 MAX
IRAK1 IRAK1BP1
PML ANKRD2
CLTC SNX5
EEF1A1 PSG4
CCND3 NPDC1
EIF3F DKC1
CLTC SNX9
IL18 IL1RL2
NANOS3 ACTN2
GRB2 C15ORF24
PRPF40A ZHX1
ATXN1 SC4MOL
CCT7 TBK1
PPARA PPARGC1B
JTB LRIG3
IKBKE IGF2BP1
MARK3 ASB13
YWHAQ MEF2C
RPAP1 ANAPC1
MAP1LC3B TMEM160
BAG6 PTPN12
SPI1 MYST3
CD5 PTPN6
SPI1 CREBBP
MEN1 PSIP1
SGK1 GSK3B
SGK1 GSK3A
NES SRRM1
UBE2D1 AMFR
SFN FAM53B
MECP2 HIPK2
ABL1 NEDD9
CBL BTK
APRT VHL
RAC1 ARHGEF7
RPS6KB1 MAPK1

DPEP3 SMARCA2
BCL7B RPAP3
UBR5 PMS1
PIN1 EFTUD2
PRR14 SH3BP4
NOTCH1 LEF1
MYC CCNH
TRIP12 MEPCE
CASP1 HTT
YY1 YAF2
TBP TAF1B
HDAC3 GMNN
TUBGCP2 BTRC
PPP5C ESR2
HIST1H3J AURKB
MED12 MED19
CALM2 GPRIN1
SART1 UBL5
BAG2 STUB1
KIF5A RAPGEF2
HIP1 CLTC
KRT6A KRT15
PRDM1 EHMT2
HOOK3 HOOK1
SMAD3 STUB1
AASDHPPT TRAF2
YWHAZ EIF4G1
UBAC1 RNF11
KRT1 TANK
CBX4 H3F3B
AP3B1 ARRB1
GNAI3 RGS19
TAL1 RCC1
GNAI3 RGS3
LPA SETDB1
PTN APOBEC3G
EFNB2 DLG4
KIF5B KLC2
EIF4G2 EIF4A2
ARF3 GGA1

COG4 COG5
ARF3 GGA2
APC SFN
CRADDCASP8
SFN HNRNPD
SDC3 TUBB2A
LPL ASCC2
DMD ACTC1
ARNTL RPS27A
SMAD7 ZBTB44
BRCA1 COBRA1
POLR1A RRN3
DLL1 NOTCH1
TP53 HSPB1
PABPC1 TOB1
PDHA1 WDR20
KDM1AASCC2
TMED2 ARFGAP1
HTRA2 MAPK14
PSEN1 RAB11A
UBASH3A UBE2L3
TLE1 TLE2
ACE2 GHRL
IMMT ECSIT
CFLAR PSEN2
PCBD2 KCNIP3
LATS1 MOBKL1B
IL2RB JAK1
BAG6 XRN1
MLNR GPRASP1
RPL5 GRB2
KRT1 EVPL
RAC1 DOCK1
CDC5L CTNBL1
HSP90B1 EIF2AK3
PSEN2 APBA1
FGFR2 PTK2B
DDX5 EP300
KAT2B ING1
YWHAQ SLC8A2

ALOX12 KRT85
AHR STUB1
RAB25 SMURF2
MCC MLEC
MCM2 UBA5
MCC SCRIB
RELA LARS
PSMC2 PSMD4
YWHAZ NOLC1
HADHA IKBKE
NHP2L1 INSL6
SRF FLI1
RANBP1 RANGRF
HNRNPA1 PRMT8
PDLIM1 GFAP
CST3 ATXN1
YWHAZ KPNB1
TLR2 HMGB1
MOCS3 XRN2
PLSCR1EFEMP2
MYO7AUSH1C
NDST2 GRB2
YWHAZ NUMA1
MCC EIF3A
RPN2 TNIK
DRD2 SLC6A3
FXR2 TRAF2
SFN MAPKAP1
ZFP36 HDAC1
PSMD11 RUNX1T1
OMA1 ITGB2
CETN3 SASS6
PLCG1 CTSS
CAT TLR10
ACTC1 SYNE1
CDC37 STAMBPL1
PTPN11 SLAMF6
YY1 RELB
CBX5 HDAC5
ZAP70 LAX1

MAP2K7 ALK
CDK1 ZBTB16
YWHAE RASGRF1
TGFBR1 RTKN
SRC GRIN2B
RAB11A RAB3IL1
DVL2 PRKCA
SIRT1 PPARGC1A
PROX1 ZBTB3
CNOT8 CNOT1
ITGB1 CRKL
MAP1LC3C RABGAP1
USP49 ANKRD33
MAP2K1 MAP3K1
CBL PTPN11
PLSCR1PGLS
RPL30 MAP3K14
RGS10 GNAI3
BCL3 STAT1
NRAS PIK3CA
RFXANK CIITA
MAP2K7 VRK2
MAP3K11 SH3KBP1
AR HIPK3
ARAF SFN
TTC35 FAM158A
NANOS3 EFEMP1
NUP107NUP93
RGS16 GNA13
MCPH1 TERF2IP
ILK XPO7
YY1 BRCA1
DAND5 ELF1
SPAG8 UBQLN4
SDCBP CD6
PRKCB GABRG2
HDAC4 CAMK1
TOM1 EEA1
PIK3R1 TEC
PIK3R1 ABL2

ESR2 MMS19
MCC ICT1
HLA-G LILRB1
HNRNPH1 GPN1
ORC1 TERF2
PSMD7 NFKB2
PRKCB GNA12
EPB41 FKBP1A
SDC3 CUX1
SLC38A1 TCF25
SUMO2 MAF1
RAF1 YWHAE
MAP2K4 MAPK10
CDK1 MAPT
IL6ST CDK9
DRD1 HRH3
NGFRAP1 TSC1
CDH15 GNA12
RAB3A SYTL4
KAT2A TRRAP
MAP2K4 MAPK12
ACVR2A TGFBR3
ATG12 EIF3E
GLA OTUD4
PLCG2 TEC
TP53 TOP2A
TP53 TOP1
ELAVL3 MAST1
UBE2K LRSAM1
ITSN1 WBP11
GLRX3 NADK
SRC SHANK2
TGOLN2 GRB2
BMP2R2 PRKG1
MICAL3 RAB1B
TPST2 CCR1
AKAP13 MKNK1
ITGB1 CD46
BDNF MBTPS1
PPP2R1A GNA12

TRIP10 SBK1
BCL2 PXN
ENO2 TUBA4A
EWSR1 MRPS18B
SMARCD2 CHD7
TBK1 IKBKG
RBM10 PTBP2
HIST1H1E NCK1
PRPF40A AKAP8L
RIPK2 BCL10
CD40LG RPS27A
SYN1 PRKACA
SUMO4 DNAJB11
PF4 CXCR3
KCNJ11 AP2M1
GRIN2C INADL
TES ACTL7A
PRPF40A SFPQ
RBBP5 CXXC1
RPS27A SKP2
TIMP2 ECHS1
SRC GAB2
MCC CAPZA1
CDC25C RPF1
GATA1 MAPK1
SPTBN1 SMAD4
ETHE1 IGSF21
STAT5B PPP2CA
AKAP5 DLG1
GTF2B REL
TGFB1I1 PTK2
TP73 LRPPRC
ABL1 CDC27
MYC NFYC
SQSTM1 MRPL38
HCFC1 RBBP5
RELB NONO
ATF7 RASA1
UBE2D3 POLL
NTRK2 TRAF6

UBC WRN
TAF10 TAF2
CLTC EPN1
PPP1R8 CDC5L
PHC2 LMO3
GRB2 SF3B4
GRB2 SAFB
CDH1 GNA12
MAPK14 MAPKAPK3
ACTA1 COTL1
IGSF21 BTBD2
FXR2 THAP1
HDAC1 SATB2
UFD1L VCPIP1
NFYA TAF12
SRC TYRO3
MEN1 HCFC1
GRM5 PRKCZ
CRYBB2 CRYGC
PAK2 SNX9
GRB2 RPS6KA1
EPCAMLCN1
USP11 OSBPL10
LCP1 GCA
CDC25A MAP3K5
TRAF2 FAM120B
EIF3B SRRM2
GNB2L1 PRKD1
PPARA NCOA1
USO1 IKBKG
ELANE CXCR4
CTNNA1 ZGPAT
ARPC2 ARPC5
PRKAG1 PRKAG2
RTCD1 RPL36
PARP1 NCAPD2
KLK3 SEMG2
PRPF4 SRSF1
HSD11B2 HDAC1
GNB2L1 PLEC

COMMD1 COMMD8
AR SMAD4
MCC ACOT13
SERPINC1 PLCG1
MYC CD52
MAP3K12 MAPK8IP1
DRD1 COPG
DVL2 C9ORF100
MAPK9 USF2
CTSG LRP1
XRN1 SPATA20
NCK1 CELSR2
RHOA ARHGAP8
SRCAP CARM1
ENTPD6 ATXN1
ABL1 ABL2
NCK1 NPVF
UBTF RUNX2
TFE3 VCP
XRN1 UPF3B
OGT BAP1
NCOR1 BAG1
SMAD7 SMURF1
YWHAG DDX27
OXTR ARRB2
PSG2 SMAD4
PRKDC SGOL1
GRB2 SHB
NPM1 PA2G4
DRAP1 SMAD2
NCOR1 PPARG
CHD4 BCL11B
TNFRSF1B MAD2L1
ACTA1 PRKCE
MS4A1 CSNK2A2
RAB40C FBXL15
MAPK8IP2 MAPK8IP3
DTNB TRAF2
TBP RRN3
FOS KCNH4

PPP1CACASC5
STAU1 UPF1
VCAN CD44
EGFR SEC13
ARHGEF1 CNKSR1
POU3F4HNRNPU
DSPP CASP2
TFAM IKBKE
EPOR GAB2
SIN3A DDX20
MAP2K7 KIF26A
ERBB2 CHN1
SKIL CAMSAP1
CBLN3 CBLN2
POLR3A POLR3H
MYBL2 SND1
MCM10 ORC3
PABPC1 PAIP2B
RPA2 C7ORF64
TFCP2 SERINC1
AKT1 FOXO1
HSPA1L REL
PRKACA MEP1B
ATM WRN
INSR PLCG1
YES1 GP6
IKBKE RBBP7
ASAP2 FYN
HSP90AA1 MCF2
GYG1 GYS1
HDAC3 SAP30L
AIMP2 FUBP1
SNRNP200 SMAD2
LZTS2 ZNF581
TJP1 KIRREL
SMARCA5 SMC1A
SERPINE1 UBQLN4
HAP1 KAT5
TPD52L1 MAP3K5
WEE1 SMURF1

ANXA3 REG3A
POLR1A USP11
TMBIM6 TRAF6
USP11 ATAD3B
USP47 FBXW11
MMP1 TFPI
LHCGR GIPC1
GLP2R CALM2
CPSF6 UBQLN4
UBE2N MID2
NPY PMCH
FGR CYP27B1
SMAD1 LEF1
SMAD3 MYO5B
MCF2 STUB1
IKBKE RAB5A
SMEK2 FEZ1
RAF1 RCAN1
VIL1 TEX11
RUNX2 SMAD1
RUNX2 SMAD2
GABARAPL2 TBC1D2B
NCK1 TRIM39
ARHGDIB CASP7
EPM2A GYS1
SERPINB8 CAPI
SMARCB1 HDAC1
TMEM11 SCMHI
FYCO1 MAP1LC3B
STX2 SYT4
SF3B1 SF3B5
ORC4 MCM6
FYN DOK3
SUMO1 RAD51
UBE2D1 RNF126
TK2 APLP1
KIAA0182 NUDT18
CYBA NCF4
MBL2 MASP1
SNAP23KIF5B

CA12 TOE1
H2AFJ HSPA4
VCP AMFR
IGHM CD22
CLTC IKBKG
TGFB2 SMAD3
PFKL TAB2
TLE1 HIPK2
PFN2 FAM173A
SNAP91PLCG1
PRKCA PRKCE
OMG RTN4RL1
ANXA6 CR2
CDK9 MRPS27
HLTF PHLDA3
IKBKE UGGT1
EEF1A1MDM2
CTPS YWHAB
MDH1 MPP3
USP11 MAP1LC3C
MED14 CYP27B1
RPS27AORC1
CDK5RAP1 EXOSC3
CDK5RAP1 EXOSC5
RAD23A EWSR1
XRCC1 CSNK2A1
WAS PACSIN2
NOTCH1 REL
SUMO1DCPS
OGT THAP1
PRKCB LMNB1
USP2 BEGAIN
GABPB2 LMO3
PRKCSH GABARAPL2
FOS PPIG
SIN3A DACH1
PRDX2 SUMO4
HNRNPA2B1 DHX9
HAND1 TCF3
SGK1 PIP

MED22 MED25
SMC1A NUMA1
SNAPC1 SNAPC3
NR3C1 CD3D
MAGEA4 ZBTB17
PSMA7 CUL1
HIRA HIST1H2BD
MAP1B AMBRA1
CUL4A TSC22D1
TAF6 NFYC
CHD4 IKZF2
CHD4 IKZF3
MED14 GATA1
TF GRB2
GLI1 STK36
EWSR1 STK24
PTGS2 CUL1
DDRGK1 CDK5RAP3
F10 F3
PTGS2 CUL4A
PDGFRB PIK3R1
ABL1 YAP1
PPP1CA PPP1R13L
TRIP4 NCOA1
ATN1 IRF9
PIM1 CBX3
TLE2 DDB1
NTN1 DCC
MNDA RBL2
TCERG1 GRB2
MSX2 POU2AF1
EIF3F EIF1B
TNFSF18 TNFRSF18
PCDH7 PPP1CA
ITK LCP2
YLPM1 PPP1CA
PIK3R1 WAS
HSPA1L NFKB2
BIN1 AP2A1
PXN NEDD9

NDC80 ZWINT
HDAC3 NCOR1
CDC25A RPS27A
CASR VCP
RBL1 RBBP8
LST1 PRKCB
NCK1 SNX8
ERBB2 HDAC6
FGD1 CTTN
NCOR1 DAXX
MMP10 BCAN
MCM4 MCM2
UBTF FBL
AXIN1 TSC1
PPFIA2 PPP2CA
UBXN1 ACVR1
SMPD1 NGFRAP1
GABPA KEAP1
HIST1H3J SETD2
SFN TRIM25
PIN1 SRRM1
ACTN2 NRIP1
ESR2 MED12
KAT2A TAF9
MED12 MED18
EIF3H HLA-B
PLCB3 PARD3
EPOR PTPRJ
NCK1 GPR45
PTOV1 TMCC2
GOLGA2 GORASP2
IL6 IL6ST
NUDT21 EXOSC6
SRC MAPK8IP3
CDC14A BRAP
ATM DCLRE1A
PSMD7 PAAF1
GMNN MYST2
NUDT21 C7ORF64
CALM2 CALD1

CUL3 GAN
MED24 MED19
CDC5L AKAP9
SERPING1 ELANE
ERH SETDB1
ASAP2 REPS2
CASR RNF19A
RPS27A TNNC1
SKI TRIM28
FXYD1 DMPK
RAF1 CDC25A
XRCC5 HDLBP
SET IKBKE
STK16 MKKS
RAF1 CDC25B
PTK2 AEBP1
F8 LRP1
PML RELA
MTMR9MTMR6
CSNK1A1 SLC18A2
MTMR9MTMR7
MAP3K10 RP5-862P8.2
CASP8 CASP10
YWHAZ NFATC4
NGFR SHC1
THRA RXRB
MYCBPAP CDK19
PRMT5 DNMT3A
WAS SNX33
ATP1A1 PRKCA
CDC42 CSPG4
FGF6 FGFR1
MAPK8IP2 MAPK8IP1
PPIA ITK
SOCS3 CSF1R
ID1 GATA4
MYH7 TEAD3
RNF166 UBE2D4
RPF1 ARRB1
ETS1 BRCA1

MUT MAAA
CD5 HNRNPU
WEE1 NEK6
PAICS FTSJ1
PCMT1 TNIK
SMARCB1 MED21
NFKBIA COMMD1
FAM58A LIPE
JUP PKD1
APP PDIA3
EPHB2 ALK
SPATA2L CYLD
EZR AHNAK
AKT1 ACTA1
PACSIN1 ASAP1
USO1 SCFD1
HNRPDL RAPGEF2
DCX AP2M1
PDK1 SGK3
ABCD4 TMEM66
FGFR2 YWHAZ
DSPP DSC1
DPYS DPYSL5
SYNE1 DISC1
CRK THOC2
CALM2 ACE2
UCP3 YWHAG
SFXN1 UBA5
CDX4 HOXA5
PHF14 PCBD2
FYN MEPE
GLYAT VOPPI
RAD23A UBL7
IPO13 PAX6
OGG1 SNRPF
MYL6 EWSR1
SYNJ1 FNBP4
GLUD1 HIST1H2BJ
SUMO2 NOL9
GFI1B NELF

FGFR3 RPL8
MAX KAT2A
FN1 TGM2
EFEMP2 CCND3
RPL31 EWSR1
HOXD9 PBX1
SRC FAS
CDK1 SPAG5
MED6 MED1
SIN3A SAP130
NFKBIA CDC34
POLR3A IKBKG
ATXN1 EIF4ENIF1
ESR1 MED20
USP11 PGAM5
KNG1 KLKB1
PRKCB IKBKG
AR RAN
CRK GABBR1
RANBP2 MVP
FSCN1 TRAF6
KNG1 F11
PA2G4 TRAF6
CALM2 MRPL20
SDCBP RNF11
UBE2E1 RMND5B
MED24 SMAD2
MED24 SMAD1
BMI1 KIAA1377
POLR2H MED10
MAP2 MARK4
RALYL LMO3
COL4A1 NID1
VDAC1 GSTK1
RNF10 UTP14A
MDM2 KAT5
RELA MED15
RXRA SMAP2
TXNIP ZBTB32
RXRA SNW1

DYNC1H1 DYNLRB1
JUB AURKAIP1
FYN ITPR1
AHSA1 STK24
CSNK1E MDM2
PTP4A3 ATP1B3
HSP90B1 LRP1
MSN PRKCQ
RXRA TDG
PLSCR1SPG7
GSK3B DHX36
AIRE RUVBL2
THBS1 LRP1
ITGB4 ATXN1
RPF1 SMAD5
GNRH1 GNRHR
UBE2L3 XIAP
CDC42 FHOD1
SYVN1 DERL1
PIAS1 MX1
RAF1 JAK1
NRP1 SEMA3B
SSRP1 POLR3E
NFIC CREBBP
GOLGA2 TUBGCP4
HSPA9 IKBKG
CDC42 PPP3CA
SPINT1 UBQLN4
CRMP1 NAT9
ORC4 ORC2
PPIP5K1 CYLD
MC2R MRAP2
ORC4 ORC1
CCL21 UBQLN4
GTF2F2 C3ORF63
NCAM2MYB
TRAF3IP1 TRAK1
VASP PRKG1
PRKAR2A PALM2
RPF1 LITAF

DARC CCL17
SRC TNS3
FSCN1 RAPGEF2
SYT1 PPARG
KCNH2 KCNE2
NDUFA7 MDFI
BUB3 PARP1
DYNLL1 PKIB
FYN CD79A
NPPB NPR2
LMO4 TINAGL1
FRK RAC1
NUP160EXOSC1
RBL2 EZH2
GH1 EIF2S3
NPM1 EP300
DPEP3 TRIM27
CABYR GSK3B
CCT3 RFWD2
CREBBP MYST3
ADAMTS4 BCAN
CPSF6 GIN1
WDR5 CXXC1
TUBGCP2 NFKB2
SCAND1 ZNF167
RPL23 MAP3K14
NBN MSH2
SFPQ PSPC1
NFKBIA ARRB1
GRINL1A HIGD1B
GATA4 HAND2
MRPS18B EWSR1
CEP63 SMC3
CD5 LCK
HP HBB
BYSL MAP3K14
TRAF2 TRIM31
ACTG1 DISC1
DNMT1 RPS27A
HIPK2 BTRC

RARA NR1H2
PTN HSPBAP1
PTPRC CD22
VHL MOBKL3
RAP1A RAPGEF6
ATXN1 PUM1
APOL1 APOA1
APLP1 CRCT1
GMFB MAPK14
NFKBIA ZNF182
MLLT4 RALGDS
MYST2 KIAA1377
RB1 CASP10
RND3 ROCK1
FOS SMAD3
PSEN1 CASP7
PSEN1 CASP6
XPO1 SET
ITGB1 TGM2
UBE2D3 TRIM26
CDC42 CDC42BPB
STAT6 CREBBP
AR RUNX1
CD5 FYN
PSEN1 KCNIP4
PPP2CAPPFIA1
SUMO1 SMAD4
AKAP9 DAXX
S100B S100A1
ILK DDB1
HABP4 TOPORS
YWHAQ KIF5B
PPP1R2 CSNK2A1
CCDC33 NINL
NRP1 SEMA3F
TMEM11 PHLDA3
SNCG DYNLL1
CDC16 CREBBP
CDC20 MAML3
PANX1 P2RX7

EMX1 TP63
ARCN1 PHLDA3
HDAC3 EED
NRAS PLCE1
TXN TRAF6
SFPQ SREK1
ERCC3 SMAD2
MDM2 COPS5
AMOT NEDD4L
INSR PTPRC
PTPRG CSK
RB1 KAT2B
NOTCH1 RELA
RPF1 PDCD6IP
HMGB2CSNK1A1
HRAS SHOC2
UBQLN4 ELF5
NCOR1 TBL1XR1
STMN3 TRPC5
COL5A2 PCP2
YWHAZ PCM1
DAB2IPMAP3K5
SERPINB9 C14ORF1
SPTBN1 ZNF512B
SNRPD2 GEMIN7
PLCG1 VAV3
BRMS1L BRMS1
NUMB DPYSL2
HSP90AB1 EEF2
SRSF5 SRRM1
TRIM21YWHAG
COL7A1 CBF3
SERPINB9 ZHX1
LRRC3B SIN3A
HCK DNM2
AKT1 ILK
PRKCB RB1
ARRB1 STK38
MLH1 AMOT
RHOQ CDC42BPA

APEH MCC
GRB2 FAM59B
IKBKE MRPL32
ATRX ZNF512B
UBE2D1 MAP3K1
UBAP2 G3BP2
FLOT1 TOLLIP
HDAC3 SF3B1
FYN RTN4
ABLIM1 TRAF2
PCDHB5 DGKB
CDH1 ITGA6
VDAC1 CASP4
EPB41 TRMT112
IMPDH2 TNIK
ATRX HDAC1
AR CALR
RANBP2 SPTBN5
PARP1 CASP3
MTA2 MTA1
DSC2 PKP2
AR PATZ1
PIK3R1 IL1R1
FAM160A2 REEP6
TLE1 AES
NF2 RPS27A
LRP6 APOB
BDKRB2 ADRBK2
TNNI2 CALM2
HSPA1B FANCC
TP53 MAPK1
MLLT4 NRXN1
SOD2 PRDM2
SF1 ITCH
PSMD4 NAP1L1
DLG4 FZD2
HNRPDL TRAF6
SOS1 EPS8L2
CD4 CD82
DSTN RRBP1

HGS DECR1
KIAA0182 RCOR3
TP53 ZMIZ2
ING3 TRRAP
NCOR1 MECP2
MDM4 RB1
TP73 AGLB2
PAPOLA SIRT1
SASH1 SKIL
PLCG1 DDR1
HBP1 ADRM1
SOCS2 EPOR
GTF2H1 ZSCAN1
CAPRIN1 PRMT1
SIN3A INGX
APOD LEPR
MDFI CHIC2
RDX CPNE2
EWSR1 MNS1
CALM2 TRPV6
RPA1 FANCM
ACTB RAB35
DPP4 CPAMD8
PRKACA IQGAP1
RAF1 PRKCA
C1ORF124 RNF11
AKT1 GRB10
TP53 NMT1
MAP3K8 RUVBL1
UBC YWHAZ
TGFB1 KATNB1
TNF2 POT1
GADD45G TSNAX
DDX5 TBP
CSK YTHDC1
STX1A VPS18
YWHAZ STK38
USP14 PSMD6
NKX3-2SMAD1
APEH HLA-B

CSNK2A1 MAF1
STRN4 STK24
CCNB1 TSPYL2
TF IGFBP2
GRM1 GRASP
PRKCB CDK1
TCP1 PPP2R2C
ROCK1 GAB1
ABHD16A PTGS2
SGTA F11R
CSNK2A2 STX1A
KCTD13 USP25
RAB5A USP6NL
LSM3 LSM7
NCOA6 PAXIP1
NCOR1 SMARCA4
SDCBP SLC6A5
RAC1 UBQLNL
BCL2 PRKCA
SMG1 UPF2
FANCA MX1
PLAU NID1
MSH2 IKBKG
POLR2B MED10
HMGA2SMAD9
EXOC3 MLH1
BFAR UBE2D4
CEBPD EP300
GTPBP3 PARP11
BARD1 ING5
IRAK1 IRF7
MED28 MED11
MAP3K8 KSR2
GRB2 BCL2A1
PDZD2 ERBB2IP
PRKCD NCF4
PSEN2 RHEB
RPA1 MUTYH
MSN FASLG
ILK DHCR7

TCP1 RFWD2
UBE2D2 ZNRF4
PYGL SMAD3
NRAS SRI
DLG4 GPRIN1
GDF9 GADD45G
SFPQ SRRM1
TUBB TBK1
NRIP1 KPNB1
LDB2 SSBP3
RPF1 UBE2E1
WEE1 BRSK1
GRB2 TAL2
MSN BCAP31
RRN3 EIF3L
BMI1 UBE2I
RARA KDM5A
SSR4 TMBIM4
UBC YWHAB
RFX3 RFX4
ITGB1 CD9
ATXN1 SAR1A
PIK3R1 TUB
PBX2 MLKL
AKT1 PDE3B
CPSF7 WWOX
ESR1 GTF2H1
UBE2N STUB1
FABP4 USP15
MYB SND1
PEBP1 MAP3K14
KCNIP2KCND2
PLEKHA7 USP20
ESR2 DDX17
RANBP2 SUMO2
FASLG SAMSN1
PTK2 NEDD9
TG LRP2
GABRB2 PPP3CA
IGF1 IGFBP2

PTP4A3 MMS19
CAMKK2 FANCI
MTA1 RBBP7
ACVR2A INHBC
F2 GGCX
PLD2 GAPDH
RBX1 DIO2
GTF3C1KLF6
MAPK1 DAPK1
TNNT1 SMURF2
CPSF1 COPS5
PROC SERPINA5
SNRPB WDR77
CEBPE MED16
GRB2 JUB
CHMP1B CNOT10
GRB2 MAPK14
CHGB FGFR3
GH1 DSG1
EMD HNRNPU
VEPH1 GSTK1
RTN3 RTN4
ATP1A1 FXYD7
TSC22D1 TSC22D4
CST3 CTSS
AKAP8 RELA
FSCN1 PRKAB1
SNCA PRKCE
HSPA5 CASP7
COL4A1 COL16A1
MTHFD1 TNFRSF10D
GADD45A MAPK14
CD44 CD9
BCL2 ITPR1
IQGAP1MAP3K3
PRPF40A SERPINB9
UBE2E1 RNF111
UCHL3 USP20
IQGAP1TNFRSF10D
SF3A2 SAP30BP

RXRA TMPRSS3
MX1 TRPC1
GTF2F2 TBP
FAS SUMO1
PRKCA GFPT1
MDFI LRRN1
ITGB5 LTBP1
CUX1 EHMT2
SERPINA1 MMP26
AVP AVPR1A
ILK SMC4
CHEK1 RB1
PGAP3 HIF1A
SIP1 SNRNP70
TXNDC9 PTN
ZNF367 SIRT2
ADRB1 GPRASP2
WIPF1 CTTN
DPEP3 GATAD2A
CDK5RAP2 C14ORF1
S100A11 VHL
KRT10 AKT1
PLCG1 ASAP1
LRP6 DKK1
TCERG1 HSPA5
GADD45G PLEKHM1
GPRIN1 SYNGAP1
PSMC2 TRAF6
CLTC NFKB2
GFI1B BRE
HNRNPK PCBP1
KCNA2 KCNA5
HNRNPK PCBP2
NMU NMUR1
IRAK1 COPS5
STAT1 MAPK8IP3
PSMB9 POMP
IQGAP1 PPARGC1A
PCNA RUVBL2
USP2 TRAF2

CD79A BLNK
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TRIM37NGFR
CENPJ GF11B
SMAD1 CREBBP
CD5 PIK3C3
KCNA2 KCNA4
KCNIP2KCNIP1
NEFM MAP3K12
C2ORF18 PSMG2
BMP2 BMPR1A
RHOA CASP8
UBE2D2 MKRN3
HP APOA1
HP APOE
RBP1 SIRT1
EP300 HIST2H2BE
USP11 RAE1
STRN CCT2
MDM2 FBXW11
DDX6 YWHAQ
MCM7 TH1L
SNAP23STX2
CTSL1 GEM
CBX3 SRRM1
TLK2 FEZ1
HSP90AA1 FKBP5
PCNA POLQ
POLA2 ULK2
NPY MC4R
YWHAZ GABBR1
KHSRP TRAF6
SS18L1 SMARCA4
PRRC2A ATN1
CDC34 BTRC
BRCA1 TP53BP1
VPS16 VPS18
PRRC2A ATXN1
NLRP1 NOD1
NGF SORCS3

CTSO FGFR3
UBE2L6 RNF144A
MYST2 RERE
TLR4 NOX4
EIF4G1 USP10
TGFBFR1 SMURF2
SREK1 SUPT16H
GH1 PSMC2
DLGAP3 SRC
NR0B2 KLF6
EMD FYCO1
WBP2 ITCH
NFKBIE RELB
XPA ATR
SRC PTPN1
YES1 TRPV4
MAPRE2 MAPRE3
G3BP1 WDR36
FGF5 FGFR4
ETS2 SPI1
BMX ITK
IRS1 RPTOR
SSTR2 SHANK1
CDH1 IRS1
TLL1 CHR1
ARCNI COPG
CREBBP NEUROG1
RPS27A GGA1
AIMP2 LMO3
FGFR1 SHC1
NR2F1 GTF2B
EEF1D ASCC2
GRK4 CALM2
TUBA4A STARD13
RPS27A SIM2
ABL1 KIT
TP53 CDKN1A
HLA-DRA PRPF40B
CD79A PTPN6
SNRNP200 RNPS1

MAX ARHGEF2
IKBKAP MAP3K14
SYCP2 EHHADH
AHCY HLA-B
SUMO1 SP3
AMPH NECAP1
SNRPD1 DDX20
MAP2K3 MAP3K4
LSM3 EEF1A1
BRCA1 UBE2I
MAP4K4 SSRP1
MED9 MED11
OXCT1 TFCP2
GABARAP NSF
PML DAXX
FLNA SREBF2
KIF5C SNAPIN
TRIO APC
GEMIN4 RNPS1
ILK ATXN10
COX4I1 TMBIM4
EPHA2 TNFAIP1
MED24 MED1
VPS16 UVRAG
TGFB1 YWHAZ
PRDX3 RPS6KC1
HDAC1 WHSC1
KCNJ1 PRKCD
EDN1 MME
RBFOX2 DEDD2
TEAD1 VGLL4
EXOC2 EXOC7
TTR VIM
EPB41 PFN2
CBX4 CBX8
MRE11A NEK1
SYK SH3BP2
PAX9 NR0B2
SIAH2 TRAF2
UBE2K CBLC

MDFI APLN
GEMIN4 BRF2
CCR1 CCL8
BIRC2 MAP3K14
MLLT6 DOT1L
S100A8 C14ORF1
TPT1 PLK1
EBAG9 SNAPIN
LAMA5 MYOC
RPA1 POLL
S100A4 MYH9
SMAD7 SOX7
RELA SIN3A
EDF1 FOS
HADHBMAP1LC3A
WIZ CDYL
PPP2CASTRN3
BUB1B CENPE
VHL KIAA1967
ANXA2 PAK2
ARG1 NOS1
BACE1 GGA2
EIF3B UPF2
PAX6 SOX10
BDKRB2 PTPN11
TXN PRDX2
S100A4 MYH10
RHOQ CDC42EP3
MET CNR1
EGLN3 HIF3A
CDC34 ATF5
HSPA2 EWSR1
PLCG2 LCP2
RANBP2 KIAA0100
FCHSD2 MSL1
MDFI TINAGL1
TGFB1 PPP2R2A
CCR1 CCL7
JUP RIBC2
BLM TERF1

TSPYL4NINL
PPP1R15A PPP1R1A
RAD51 MCPH1
CDC42 MAP3K4
LDB2 SSBP4
GTF2E1 GTF2E2
PLSCR1 MED15
CAPZA1 TWF2
CTLA4 STAT5B
OTUD4 MYCBP
PIK3CG GRB2
STIP1 HSPA4
IKBKB PRKCB
PFKFB2 YWHAQ
MAX COPS5
PSMA3 PSMB5
RORA ZXDC
RB1 SNAPC3
SRC CD59
FOXO1 RFX2
KRT4 USPL1
PPARA PPARGC1A
AP3B1 CSNK1A1
EGFR CCDC50
PCM1 CCDC53
CDC42 WASF2
RAN NELF
ABI1 WASF2
PRKCA MARCKS
SCNN1B ANK3
CETN1 USP49
SAP30 INGX
C15ORF29 HAP1
RAMP3 CALCRL
P2RX6 CDH5
SIK1 VAPA
PFN1 DLG5
YWHAZ DHX9
TGFB2 LTBP3
GRB2 FUBP3

EYA1 DACH1
ARNT CSNK2A1
TNNT1 SMURF1
RXRG CREBBP
CBX3 YAF2
CHD4 RBBP7
GSPT1 ETF1
PDPK1 RPS6KB2
EIF3J EIF4G1
PSMD14 PSMD4
IKBKE TMEM173
FGF2 CEP57
POLR2B ZSCAN1
NPM1 MCC
YWHAZ RNPS1
ATXN1 PHPT1
RPL38 MEPCE
SIAH1 UBE2D4
PAX2 PAXIP1
NCOA6 NUMA1
ZBTB33WDR48
CASP7 MEF2D
GRB2 EP300
CRMP1 KLHL20
APOD GRINL1A
FYN SPHK2
NSL1 MIS12
CRKL ANK3
TRRAP TELO2
STRN4 AK5
CDK1 RPS6KB1
PRKCI YWHAH
CHD4 TAF9
PSMB5 ABCB5
AMOT MAGI1
SRC ADRB3
ARPC3 LTA4H
USP49 HUWE1
STAT1 RAC1
FGFR4 RPS27A

UNC13B STX1A
ADRB2 NOS1
ERH CTDP1
MEIS1 PBX1
TBC1D15 MAP1LC3C
HAVCR1 UBQLN4
RB1 BRF1
COLEC11 YWHAG
NPM1 EIF4B
MEIS1 PBX3
PKN1 MAPK14
PAX6 DLG1
CDK5RAP3 UFC1
CD19 CD9
CEBPB NRF1
RARA NFE2L2
MAPK3 SYK
DZIP3 UBE2W
LIMK1 LIMK2
HLA-A PDIA3
PRMT2 PPARA
STAU1 CDC42
HOXC9 HOXD1
CDK1 UIMC1
FYN NEDD9
CREB1 TRIM22
MRPS28 USP42
TDP2 TNFRSF1B
WDR33 ZHX1
ZBTB8B AP1M1
RPS11 RUVBL2
BCAP31 TNIK
CDKN1B RPS6KA1
AR GADD45GIP1
ERBB2 PTPN3
TRIM9 BTRC
MCM10DPPA2
NFKBIA ELP3
RIPK2 PHB2
PPP1CCRYR2

PPP3CB CABIN1
MED1 MED17
EIF3D EIF3A
MAPK13 AKIP1
UBA1 SEMA3F
ARHGEF2 CGN
WASL HSP90AB1
LCK CD44
BIK BCL2L2
SNAP91 TRAF3IP1
UBE2I FLNC
HNRNPD IGF2BP2
APBA2 CLSTN3
SMAD9 CEP135
SUMO1 TDG
TFE3 EIF3A
TNFRSF10B MAPK8
TPM3 ACTB
FGFR1 SOS1
LDB2 RILP
PA2G4 PRKAB1
EIF3D IKBKE
RGS16 SRC
SMURF2 AIMP1
MYO10 TWIST1
MBTPS1 HDAC2
GNG7 MPP3
ZNF174 ZNF434
SIAH2 RBBP8
CEP55 VPS37D
PTK2 CAPRIN1
ATN1 USP54
FLRT2 GRB2
SYN1 NOS1
SMAD2 MYOCD
FAM175A RBBP8
UBC RAC1
TALDO1 TRAF6
NCAPH NCAPG
CD5 DYNLT3

INPP5F FAM109A
HSP90AB1 STAT1
SMAD1 KAT2A
SMAD1 KAT2B
CIAO1 MRPL24
GADD45A HIST3H3
SEPT7 ANLN
PTK2 GRB7
FSCN1 DNAJB9
TSC22D1 LAS1L
ELK3 CTBP1
FLNA BRCA2
ATP5B PSMD4
FKBP4 LOXHD1
IRF2 STAT1
TBL1X SIN3A
GABRG2 PPP3CA
FGF2 RPS19
CNTFR IL6ST
HIVEP2 SUMO1
PRKD1 MARK2
VAMP1 BCAP31
CALM2 KIAA1683
EP300 HIST3H3
DLEU1 COPS6
UBTF TAF1
YWHAG ERC1
NDEL1 TACC3
ZNF512B CREBZF
ZNF512B DROSHA
CCNA2 CHAF1A
SLC9A3R1 CAPN6
MED1 MED9
SMARCC2 TSG101
FYN TULP4
CSNK2A2 PPP1R1B
RET PRKAR2A
JAK3 ALK
ESR1 PTPN1
MCM2 SNF8

RAC1 SH3RF1
MET PLCG1
HMGB1H3F3B
TP53 CDC25C
TTR PHYHIP
HIVEP2 YWHAZ
MCM3AP CRMP1
NFKB2 FBXW11
AP1G2 AFTPH
ESR1 SMYD3
DNAJA1 TRAF1
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GAB1 ARHGAP32
RBP1 LRP2
KRT15 NIF3L1
TPST1 SELPLG
RBBP6 ZBTB38
MYCN GSK3B
AKT2 GSK3B
IQGAP1TSG101
GPC3 WNT7B
STRN ZRANB1
FAM98B PRKAB1
SRRM1 ASH2L
SNF8 NIF3L1
AR RNASEL
APOB HSPA1B
SGTA SERP1
PRKACA CDK16
PIAS1 NR5A1
FAS BID
CDK14 YWHAE
FN1 GALNT6
UBE2B UNC119
ATXN1 UBQLN4
GRB2 MOG
HDAC2 HIF1AN
HSP90AB1 TCP1
UQCRC2 UQCRC1
FLNC USP53

SCNN1B CNTN1
TGIF1 MKKS
PGAP3 CRY1
MPP1 AMOTL2
RPS27AJDP2
CYB5A CYP17A1
ASS1 YWHAZ
MSH6 EP300
TBX4 FAM46A
COPB2 PRKAB1
GNA15 GRM4
CEBPB TAF9
ABL1 BRCA1
C7ORF64 TAF9
HNRNPC RBM41
HRAS IL3
BCL2L1CASP8
SRSF3 SRRM1
APOD GRINL1A
CTBP1 HDAC9
U2AF2 U2AF1
CBR1 MCC
TSC22D1 TELO2
RPS27AHNRNPD
TPD52 TPD52L3
YWHAZ PCBP1
PKN1 HDAC6
PRPF40A DAAM1
FES PTGES3
PDPK1 PKN2
GZMB CASP3
ANXA1 DLG3
SNRPB2 SF3A2
PDPK1 PKN1
MAP3K3 BCL7B
PRPF40A ZFH3
PLG SERPINB6
SCNN1B RPS27A
POR CYCS
ITSN1 SNX5

CHD1 HMGA1
PLEC SRRM2
PRPF40A ZNF451
RPL23 MAP3K3
POLD1 ARF6
MAPK1 NCOA3
STAT1 IFNAR2
EMD BCCIP
RB1 CASP8
NAP1L1 TRAF1
IL7R STAT3
TGFB1 TTPAL
AXIN1 ANP32A
SFN ANKS1A
WASL NCK1
BCL2 CASP8
SNRPB GEMIN4
FBXO41 DISC1
KIF20A CDC14A
UBE2N LRSAM1
HSPA1B STIP1
RPS27A KEAP1
BAX TOMM20
EP300 CTF1
RELA TRIB3
RAB10 MLPH
ESR1 CALM2
RHOH CNKSR1
CARD11 IKBKG
TF FNBP1
HSPA1B YWHAB
WISP2 IGF2
NTRK1 RPF1
INPPL1 EGFR
DDX24 G3BP2
CARM1 RABGAP1
CDC42 ARFGEF1
GGA3 RNF11
ITGAV P2RY2
SGK1 PABPC1

POLA2 AKTIP
TCEB2 CUL5
GPRASP1 MARK2
LYN DLG4
MEF2C HDAC9
PSMA5 PSMD4
AKT2 TSC2
MTA1 HIF1A
RNF17 UBE2U
PSMC2 UCHL5
INPPL1 ABL1
MPO CCND1
MCM6 SRRM2
NPM1 NOP2
STK11 CDC37
APP APBA2
GTF2B TAF9
CSNK1D PSEN2
ATP2A2 OPRD1
C8ORF41 RUVBL1
STX3 SYT4
FAS UBE2I
TMPO USP7
MEPCE SF3B2
EXOSC10 EIF3M
GDI2 RAB9A
CRK OPTC
ARPC5 ARPC4
HGS PTCD3
EIF4A3 UPF1
APRT IKBKE
HSP90AA1 RIPK1
SOX6 SUMO3
XPOT RANBP2
COL1A1 FGF7
TRAF1 NONO
MAP4 NR1I3
AKAP17A RNPS1
XPOT NUP153
RPS27AIKBKE

UBE2L6 RNF216
SYN1 SYN2
PTPN1 CDH2
PRPF40A UBQLN1
MTMR9EMILIN1
DOCK10 RHOJ
HERC4 HERC6
SMAD7 CXXC5
CREBBP KAT2B
CREBBP KAT2A
MYC MMP10
NFKB2 IKBKG
RPS27A EIF3A
GEM GMIP
CHMP4C VPS4A
FABP4 EXT2
ITGB1 VCAM1
ESR1 PGR
GTF2F2 PFDN2
JUP CDH2
ACTN2 LRP12
ETF1 PPP2CA
WDR62 RALY
IQGAP1KBTBD7
CD247 TRAT1
MDFI DNPEP
CREBBP DDX17
NKX2-1 WWTR1
RPS27A DOCK1
CDC42 EPN1
NLGN1 NRXN1
ESR1 PSMC5
CXCR4 RPS27A
UBE2D1 ZNRF4
SH3GL1 SH2D4A
IRAK1 TAB2
RPL31 YWHAZ
GRB2 DLGAP2
SLC9A3R2 OTUD7B
ZNF512B SMYD2

E2F1 UBXN1
SMAD1 NEUROG1
SLC24A1 CNGA1
CDK5RAP3 PRKAB1
ATXN1 SPEN
CDK5RAP3 RPL36
APOH CLEC4G
TRAPPC3 GSG1
EP300 HIF1A
MON1B VPS18
RAB11FIP3 RAB11A
ARF1P1 ASAP1
VAC14 PIKFYVE
FAM123B FBXW11
SNRPD2 STXBP2
ACTG1 MAP3K3
SMC2 GSTK1
DLG4 KCNJ12
FUBP3 QKI
TRAF1 CASP10
PPFIA3 PTPRF
ZNF365 NDEL1
KIF1C YWHAE
RPS27A SH3GL2
NCK2 LIMS1
PAK2 ARHGEF6
SMURF2 NEK6
SNRNP200 IKBKE
SMURF2 TNPO3
EZH2 RPN2
HNRNPA3 POLR1E
COPS5 DCAF11
MGEA5 MAST1
XPO1 STAT1
PRPF40A PIAS3
COL4A1 SERPINE2
TADA2A CTNNB1
UIMC1 GLTSCR2
PARP1 TERF2IP
FLNA GRIK1

CASK RPH3A
WDR37 EWSR1
CHEK2 PPP2R5D
TAF4 AHR
SRRM1 DPY30
AKT1 THOC4
ADAM10 TGFA
GTF2B TCEA2
MAGEA11 RADIL
PRPF40A WASF2
TUBB MDM2
FOS LMNA
CTSG PARP1
DLL1 NOV
MAPKBP1 MAPK10
PEBP1 PACSIN3
LYN PRKDC
RPL13 PIK3R1
TGFR1 AP2B1
AMOT SCLT1
MMP1 BCAN
PLCG2 CBLB
CASP7 CASP8
COPS6 COPS7B
MYST4 ING5
GTF2B TAF11
PSMA4 PLK1
GNAI1 GPSM1
S100A1 AGER
ERN1 COPS5
CDK1 KIF11
SRC MEPE
PAX6 TRIM11
ABL1 MAPT
TRAF2 HSPBP1
MDM2 CREBBP
PCM1 TRIOBP
HIST3H3 IPO4
STAU1 TUBB
ATF2 ATM

CARM1 UBE2D4
PLCG1 SNX7
KAT5 SIRT1
VCAM1 IL13
MAP1S RASSF5
COL7A1 LAMB3
UBE2D3 BTRC
COL7A1 LAMC2
FIP1L1 SRRM2
POMC MEP1A
ATP5A1 SIRT3
PAK2 SEPT2
INHBC ACVR2B
PSEN2 KCNIP3
FRS3 NTRK2
STAT1 DUSP3
CASP3 PSEN1
MRPS21 USP42
SGTA SPP1
ARPC2 PRPF6
CREBBP IRF7
GAPDH POU2F2
RARA COPS2
SPG20 SMURF2
RPS27ABAG1
KCNA4 DLG3
FEZ1 DISC1
STX2 VAMP8
BRCA1 SUMO1
SF3B2 SMAD2
EIF2AK2 TAB2
BMP2 ACVR2B
USP33 ROBO1
ID2 TCF12
MDM2 RYR2
CTAGE5 TRAF6
PSMD11 INSL6
CTSL1 COL18A1
CCK MEP1B
SCTR CPAMD8

RALB RALBP1
ARPC1B ACTB
PIK3R1 CSDC2
PCF11 THOC4
VIP VIPR1
CCK MEP1A
TP53 RPL23
EIF3F PRRC2A
TGFBR1 BTBD2
ATF1 BRCA1
KRT1 PRKCE
TP53 SAE1
TRAF1 TANK
FKBP4 SMURF2
HTATSF1 ZNF512B
GPAA1 GRIK5
CREBBP KAT5
CDC42 ATXN10
ITGAM ICAM4
NF2 AGAP2
ZBTB9 CHURC1
TAF6 SMARCC1
DIAPH1GAS7
TP53 CCL18
SGCE ARIH2
TLR3 TICAM1
RHPN1 ROPN1
NR5A1 NCOA1
GADD45A HIST1H4I
WASL ARPC1B
XIAP NOD2
PROP1 PITX2
AGRP MC5R
RXRA NCOA4
AKT1 KTN1
SKIL PYCR2
EIF3J GOLM1
RALA EXOC8
ITGB2 RANBP9
NBN RECQL5

TNFAIP3 TNIP2
LDLR PDIA3
BARD1 GIT1
SRSF1 SRPK1
TBK1 RUVBL2
EEF2 MAX
EWSR1 MAPK1IP1L
MAP3K3 TUBB6
SLC38A1 GNB2L1
KIAA1715 CHMP1A
HNRNPM LYST
KRAS EPB42
IRF5 IKBKE
DLG4 LRRC1
UBQLN4 UBQLN1
JMJD5 PCYT2
PFAS CCNA1
USP12 NUP160
OMA1 ITGB7
CAD RELA
PIK3CDIL4
IRAK1 IRAK4
E2F1 ARID4B
GRB2 CLCA1
CUL2 SAP130
GRB2 APOL5
CPLX1 RXRB
PFAS HLA-B
PRM1 LBR
AIRE MCM5
CCDC91 GGA1
CCDC91 GGA2
CNOT3 CNOT8
MAPK9 KIAA1377
KCNH1 KCNB1
EPB41L2 YWHAG
LAMA4INSL6
PRRX1 MAFF
STX3 VAMP8
PPP1R12A FYN

UBE2D1 BARD1
OSM COL4A4
PSMC4 PSMD2
MPG REXO2
GRIA2 GRIK2
DNTT DNTTIP2
GNAO1 PTPRU
KRAS PIK3CA
TBL3 APPBP2
DNAJA1 MAP3K1
SF3A1 PRKAB1
NLE1 EWSR1
DLGAP3 DLG3
BRF1 DTNBP1
TP53 PPP2R1A
SSRP1 CHMP1B
TBK1 RUVBL1
GRB2 NFE2L2
ESR1 PGC
SF3B2 SRRM2
ADAM12 GRB2
TGFB1 RGS19
POU3F2EP300
GABRR2 CSNK2A1
F5 MMRN1
BAG3 BCL2
TLX3 HNRNPUL1
CASK NRXN3
SUMO2 EME1
CALM2 STRN4
SNTA1 DGKZ
RTN3 FAM160A2
GDF9 S100A8
LCK NEDD9
SGSM2 KHDRBS3
HIST1H3J KDM4C
ATN1 MAGI2
RBFOX2 ATN1
TAF1D POLR1E
PPP2CAPP2R5C

NRIP1 TRAF2
RBFOX2 ATXN1
SVIP DERL1
HLA-B LRRC40
ACTN2 SSX2IP
RORC EIF4EBP1
ZBTB16HDAC6
CDC34 FBXO7
DLG4 SCN5A
VDAC1 TRAF6
SORBS2 SEMA6A
RAF1 PEBP4
KLHL20 LUC7L2
HLA-B SFXN1
SPI1 BCL6
BAG1 NCOR2
YWHAG SAMD4B
TTBK1 NUP205
NCK2 FASLG
AIRE SRC
CD4 PIK3R1
SOCS1 TCEB3
RAD1 DNAJC7
SLC25A6 RELA
EEF1D PRKAB1
PSMB9 LGALS12
LRP1 SCN3A
TACC1 KAT2A
ARID2 SMARCE1
SHC1 IL2
EXOSC10 CHPF
ETS1 APLP2
BCR IGSF21
TGM2 MAP3K12
AKT1 NF2
ACVR1B SMAD3
HUS1 DNAJC7
PEX7 PEX13
MAPK13 SOX9
MMP3 SPP1

YWHAZ WTAP
TOM1 TOM1L1
NFKB1 SUMO1
MAPK10 TTC19
WDYHV1 RABAC1
TOP1 CSNK2A1
SNRPC SRRM2
NAMPTIFITM3
POU3F2SOX10
MATN3 MATN4
P4HB ATG5
ADRBK1 GIT1
GRB2 PACSIN1
TSC22D1 COPG
CHL1 YWHAG
GSN PTK2
RAD1 RAD9A
SIP1 GAR1
AIRE EFTUD2
RFX3 PKNOX1
RAB5A TM9SF4
FASN YWHAZ
RCC2 PRKAB1
TBK1 BTRC
CDKN2C CCDC90B
NUP160MAGED1
STAT1 RELA
RAF1 ERBB2IP
HUS1 RAD9A
BARD1 KIAA1377
SERPINB9 EEF1A1
FANCA DNAJB1
GADD45A HIST2H2BE
MTCP1 EWSR1
BRAF MAPK1
ATMIN MAPK6
RPN2 PHLDA3
ETF1 FTSJ1
COIL KLC2
FGF5 FGFR3

CCNA2 ORC2
SFN SH3BP4
IKBKE KTN1
ATXN1 USP7
CCNA2 ORC1
MRPS22 SUMO4
MEN1 MYC
NGF NTRK1
PGK1 PRKAG1
TGM2 AKAP13
RPS27ANFE2
SMURF2 GMEB1
MLL MYST1
COPB2 ARCN1
C8A C8G
RAB7L1 LSM7
TP53 COPS7A
GRB2 EHMT2
APC LAMA4
FGF2 PRMT1
NR4A1 CHMP2B
GTF2H1 BRPF1
CDC20 HDAC2
TGFB1 TGFB3
SMURF2 SMURF1
CIC PICK1
HCK CSF3R
GADD45G MAP3K4
CBX3 MGA
KIAA1217 EXOSC5
GTF2E2GTF2F1
AIMP2 LNX1
CYBB IQGAP1
ZMYND19 KCTD13
CREB1 ATM
PRPF40A SRRM2
ZFP91 PACSIN1
PRKACA CLTC
APBB1 WASL
SMARCC2 KDM5B

HGS UBQLN4
ISL1 SSBP4
DAPK1 KLHL20
KPNA3 FAM50B
MDFI NEU4
PSEN2 MAST1
GLI1 HDAC2
CTNNB1 DAZAP2
HSP90AA1 MAP3K1
ECD SKP1
CUL4A RBBP5
ITGA5 SPP1
CHEK1 XPO1
PTPRS MOBKL3
CDC20 CREBBP
PIP5K1C ARF6
CCND3 MAPK4
DDIT3 RAI1
IK KAT5
RPS9 MAP3K14
PTPRC SEMA4D
APC AZGP1
EIF4H C11ORF68
AR ZBTB16
CPSF3L INTS9
GDF9 NDUFB9
SRMS DDA1
MED1 MED29
CALM2 KCNQ5
PRKG1 SF1
BTBD2 C14ORF1
BCAP31 BCAP29
CREBBP SMARCC1
SESTD1DAXX
ECHS1 TRAF6
GFAP RIBC2
BAG6 DNAJB11
REM1 YWHAZ
DEDD SERPINI1
TGFB1 TSSK1B

BRIX1 ARX
MAP2K1 CPNE4
MARK3 YWHAB
MARK3 SFN
UBE2D1 RNF165
CHN1 RAC1
MGST3 F10
TRAPPC3 TRAPPC1
PPP1R12A RHOA
NCOR1 SAP30
SHBG MT1G
RARA TOP2B
GOT2 CDK2
TSC22D1 SRPRB
YWHAG ANKHD1
CDT1 FZR1
SH2B2 JAK1
COPS6 ORAI2
CPT1A CLN3
SF3B1 SNIP1
TRIM22CIC
BMPR1B TTC27
ITGAL F11R
HIF1A RWDD3
ZBTB2 WDR48
HP ITGB2
FAM125A CD2AP
C8A C8B
NCK1 DLGAP2
HGS EXOC7
MAP2K2 MTERFD1
CTDSPL SNAI1
BAG6 REG1B
NRP1 FGF4
RPS27ASTUB1
MED14 BRD4
ACTN4 ATP6V1B1
NDUFV1 EWSR1
MC4R MRAP
YWHAZ TJP2

CTNNB1 CDK5R1
ZNF197 VHL
DEGS1 MOBKL1B
KCNA2 RHOA
COPS4 COPS3
NFX1 SIN3A
NDC80 CENPE
IL4R IL13
PDGFB MDFI
CD3EAP POLR1A
INSR INSR
IL6R MAGI1
XPA RASSF1
ATXN1 MED15
LGALS1 SPN
MRE11A NLRP2
CDKN2B CDK8
DGKQ RHOA
NCOR1 NR1H2
SNRNPB GIGYF2
OIP5 BRAF
RASA1 ERBB4
LRRC41 MYO9B
MED30 MED16
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TAOK1 MARK2
CCNC CDK8
XPO7 DDX19B
MAPK9 PRKDC
KIF5B VHL
OMA1 ERBB3
SSSCA1 CCT3
HNRNPC YWHAZ
GDI1 UBQLN4
SHFM1 CDC42
MDFI GDF15
YWHAB SLC8A1
RPN1 IKBKE
NRP1 ITGA5
RFC2 DSCC1

HIP1R ACTA1
VARS EEF1A2
GFI1B C20ORF12
EZR ADORA2B
NDUFA4L2 C14ORF1
RPS27A TRIM25
IL33 CRMP1
CDC34 NEDD8
PRNP HSPA5
MGP BMP2
S100A6 FKBP4
BARD1 KBTBD7
EGFR NUMB
ARPC2 HLA-B
TBX4 FAM46A
LCK CD79A
MAP2K2 FAM98B
NPEPPSARF6
TGFB1 PREB
UBE2C EBNA1BP2
NR3C1 DCAF6
FXR2 MBIP
CRMP1 HNRNPUL1
TGFA MAGI2
PPP4C TRAF6
KRT6A DSPP
SRC FLNA
ANKRD28 DOCK1
PIK3R1 CD2AP
RARA PML
UBE3A BARD1
GADD45G IKBKG
SRC CDH5
TRAF1 ZMYND11
TOE1 RAB40C
GLIS2 XAB2
PTP4A3 PTPLAD1
POLA2 C9ORF25
GOT2 GH1
EEF1D TRAF6

CHD3 KIF15
MAPK12 SNTB1
CCND2 RBX1
KDM4AHIST1H4I
GHR TYK2
NR0B2 HDAC6
APC NUPL1
PLCG1 DNAJC14
NMB NMBR
PVRL1 PVRL4
CDC23 RAD54B
EXOSC9 DIS3
ATXN1 CIC
LRPPRC NFKBIB
IFIT3 IFIT5
LYN PLCG2
TRIO PTK2
EXOSC10 XRN1
ALPL TRAF2
STK19 POLE
EXOSC5 EXOSC1
ACVR2A IGSF1
ITPR1 ERP44
SF1 TAF15
EEF1A2TAB2
SRC SRCIN1
SDC4 GIPC1
UBE2D2 BARD1
MTNR1B COPA
TSC2 PTK2
FHL1 HIVEP3
LYN IL7R
UBE2D2 MAP3K1
MED6 SMAD1
RAF1 KSR2
NR2C2 CBLB
ATN1 SYVN1
PAK2 ABI3
MED6 SMAD2
H2AFJ EZH2

AIFM1 ENDOG
RAC1 MAP3K4
STAT1 SMARCA4
HTN1 MUC5B
POLB NCAPG
MYC SMARCA2
GOSR1 EBI3
CALM2 KCNN2
PRKCB IGBP1
SPTBN1 SREBF2
DNM2 RPAP2
HIST3H3 SMYD3
SPOCK2 TES
RHOB PPP2CA
XRCC1 CSNK2A2
ESR1 POLR1B
TCP1 STK24
F2RL2 JAM2
IKBKAP BARD1
GTF2F2 VAV3
MYC DNTTIP2
TECPR2 MAP1LC3C
ERH COPS6
ESR1 PTGES3
NCOR1 HEY2
CLN3 KIAA0368
WDR48 WDR20
CEND1 UBQLN4
SFN CGN
CSNK1D MDM2
FYN MS4A1
AGFG1 RNF216
TRAF1 TNFRSF14
JUND EP300
CD247 ZAP70
USP19 DMWD
MAGEA11 SNX20
RCC2 TRAF6
PDE6D RHEB
CCL20 TRAF6

ATF2 SMAD4
CASP3 CASP4
AP3B1 PACSIN1
DVL2 APC
CALCOCO2 FBXL18
ZNF439 KRTAP4-12
RBP4 RPE65
IGFBP5 IGFALS
FYN LTBP2
PCNA FAN1
GTF2A1 TBPL1
RB1 NFIX
HMGB1 HOXC6
SF1 DDX17
SIN3B HCFC1
PPP1C HDAC10
H3F3B KAT5
ILK LIMS2
CEP110 CENPJ
CDK5RAP3 SRPRB
TFCP2 HDAC2
NR5A1 TCF7L2
ABCA1 TIAM1
ZFP36 DCP1A
SRC KCNQ5
KRT16 TCHP
MAPK1 CAV1
COX6B1 TH1L
USP54 CHMP6
MTOR EIF3B
LYN HNRNPK
EXOSC6 EXOSC5
CEBPB CDK8
TPM3 RIPK3
RPS27A TSG101
FAM107A TRAF2
USP11 TCEAL2
KRT1 YWHAQ
C8ORF41 TELO2
LDOC1 C10ORF18

RPS27A PCNP
ZFYVE9 MAPK14
GABRG2 ZDHHC3
CBL SH3BP2
RCC1 CSNK1A1
SAP18 GLI1
BMP4 HTRA1
ACTL6A EWSR1
POLE4 POLE3
FYN CASP8
HDAC7 IKZF4
RPS27A TMEM173
PIK3R1 SNX8
REL SIN3A
SQSTM1 RIPK1
BCL10 CARD10
TP53 MSX1
APC NFE2L2
NCL SWAP70
CLSTN1 APBA2
ITGA6 PLEC
ESR1 BTF3
MPG EP300
TDG CREBBP
TCEAL1 KDM3A
RB1 HDAC2
MAP3K13 PRDX3
IQGAP1 GRB2
RPS27A MAST2
TUBB2B NFKB2
ZNF558 EXOSC5
NCF2 PRDX6
BMP4 BMPR2
PHF2 SUZ12
FXWD1 PPP1CA
GATA2 HDAC5
MDM2 KAT2B
ABCA1 PDLIM3
CEBPB HSF1
XPO1 CDKN1B

AKT1 EIF4EBP1
GRIA1 HOMER1
FUS TP63
NFKBIB EXOC4
CUL4B SNRNP40
HSPA1L RUVBL2
CA12 ATP5C1
E2F3 YY1
DCC PITPNA
UBC UBASH3B
KIF5B WNK1
MDM2 DDX17
SIN3B MECP2
PHC2 BSDC1
ATF7IP PLEKHB2
NR4A1 GADD45GIP1
DBH ITSN1
RRAS MRPL36
RNASEH2A SMARCA4
ZBED1 PSAP
HLA-B TBCE
FCHSD2 CCDC104
FASLG RHOA
HSPA1L RUVBL1
NTSR1 ARRB2
NCOR1 HESX1
PPARG CHD8
CALCOCO1 IPP
RPF1 GABARAPL1
ITGB3BP AKT1S1
PLK1 KIF23
SPTBN1 SRRM2
UBE2L6 RNF19A
HBP1 RBL2
GSK3B MARK2
CREB1 CALCOCO2
MAP3K7 IRAK1
ZBTB48ZBTB8B
CDH15 CDON
TGFBFR1 SMURF1

BCR YWHAG
KDM6A PPP6R3
SP100 LZTR1
MYST2 SNAPIN
UNC119 ORAI2
TAF7 SETD7
GRINL1A MYO3A
DCN FLNA
RPL36 TRAF6
POLR1C WDR20
PLG CPB2
TCP10 PARD6A
POLR3A RPF1
FXR2 RTN4
SOD2 PAK2
CDK2 TSSC1
TRAF2 USP7
RPL8 MAP3K14
AHSA1 PHLDA3
AHSA1 NEK6
SMARCC2 BAZ1B
SRSF5 SREK1
SAP18 MACF1
FBXW9 COPS6
NKX2-5 HIPK1
BBS7 FHOD1
NR1H2 NCOA1
ARRB1 CLTC
CCT3 STK24
GDF9 SLC38A1
SMAP2 MARK2
RAB14 IKBKE
NAA38 FAM63A
SH2D1A DOK1
EIF5 EIF4G1
ACTB MCL1
CASP8 TOPORS
UBTF TCOF1
POU2F1 TBP
MME NPPC

CBX3 POGZ
CYCS RNF144B
TCF3 LDB1
TRAF2 TNFRSF25
PDPK1 PXN
APOE CYP2C8
CASC3 UPF1
APOE MAPT
SDCBP TRAF6
GSC2 RNF4
ESRRA NRIP1
YWHAZ ARL6IP1
EDN1 ADM
MAPK3 GATA4
COL7A1 MIA3
NCK1 ATP2A3
SFN CDC42BPG
GNAZ OPRD1
KRT15 TXNDC11
ZNF512B HEYL
SPTBN1 ANK2
RBBP7 HIST3H3
PNKP DDX20
JAK2 YES1
JAK2 LYN
GRB2 ZNF521
RALB REPS2
HTATSF1 GTF2F2
RXRA CHD9
ARIH2 UBE2E2
VCL TLN1
PLCG1 ALK
ABLIM1 TSC22D4
SNRNP200 SF3A2
CD28 LRRC23
ZSCAN1 ZNF396
CRMP1 LRRC1
DEC1 MYOD1
PRPF40A VASP
ESR1 ATAD2

CDK1 RPA2
SGK1 CREB1
PPP3CBGRB2
CBL YWHAQ
SATB1 CTBP1
LCT SRC
KIF5A TSG101
COPS5 COPS3
IL6ST STAT1
AHSA1 EEF1D
CCNA2 SKP2
LCP2 PRAM1
HIF1A USP20
SEPT2 SRRM2
ANXA1 FPR1
TCEB1 COPS6
AKT1 TCL6
AKAP8 CCND2
PSEN1 EFHD1
NFKB1 ACTG1
NTRK1 DNAJA3
TRIM24NFE2L2
NFKBIA TBK1
PTPRC RNF11
UBE2D2 RNF138
POLR2L EXOSC5
XPO1 BIRC5
MYOT LRP12
RAC1 PNPLA6
AKT1 AHNAK
KLF6 TAF9
CUL2 COMMD1
ESR1 LCK
PHB ERC1
PRKCA PTPN11
VAV1 DOCK2
AKT1 SMAD4
SPARCL1 WNK1
UBC SH3RF3
STAG2 SMC3

TUBGCP4 MAD1L1
YWHAZ PRKD1
AIMP2 DARS2
IMMT HJURP
MDFI PTCHD2
PLG HRG
CDK4 ORC3
SRC DDX4
ATXN1 KIAA2026
CDC37 RNF32
ING3 RUVBL1
EXOC6 EXOSC1
EEF1D ZFP106
ESR1 GTF2B
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COL4A1 FN1
MBD1 PIAS3
PFN1 WIPF2
UBE2D1 MKRN3
HNRNPL HNRNPK
COPS8 COPS3
FBXO18 PIM2
CUL4B KEAP1
DAND5 ESRRA
MCL1 BAK1
TGFB1 DST
VDAC1 SOAT2
LUM TRA2B
ESR1 TBP
LGALS2 TUBA1A
XPO1 HDAC3
COL4A1 APCS
EIF1B TP53BP1
GPR108 FXYP6
SUMO2 PRKDC
CCT5 RPAP3
HSPA2 BAP1
PXN PKD1
AFP CCR5
KIF5B KLC1

ATP7B ZBTB16
UBQLN4 EPDR1
PNP IKBKE
KIF5B SYBU
E2F4 TRRAP
SRC RTN4
DHX9 PINX1
HGS ZNF302
NR3C1 TMF1
FYN PLAUR
IMMT PLA2G15
HSP90AA1 PPIL2
EXOSC5 DIS3
TFAP2A LDLRAP1
PTPRA PTPRS
LDB2 PTK2
XRCC6 CCT3
GADD45G C7ORF64
MDFI BAALC
RTN3 OPTN
ASNS IKBKE
HSPA9 GPN1
HIF1A HIF3A
PTPN1 EPOR
GTPBP3 RIBC2
USP4 LSM4
SMARCE1 BCL7C
P4HB EIF4A2
CFL1 CLCN5
NR0B2 ONECUT1
PTN CRELD1
DLG4 BEGAIN
TGFBR1 ARL4D
ARPC2 DHX15
PLCG1 DAPP1
CHD3 C7ORF36
ERBB3 AGTR2
SCAMP2 ST3GAL3
TOE1 ABCF3
TIMP3 AGTR2

RNPS1 SNIP1
ECHS1 PRKAB1
COPB2 COPG
NR2F1 THRA
SFN KIF23
TTI1 SMG1
AKAP8 CCND3
DNM1 TIMM50
NFE2L2NFE2
TXLNA STX3
CCNA2 ITGB3BP
COPS6 FBXO11
RBF0X2 HNRNPAB
RBMX SORBS3
NCOR1 RBBP7
PRKCA BTK
ING3 RUVBL2
OPA1 MYC
PIAS2 CHMP4B
SMYD2 EPB41L3
MAPK9 JDP2
SEC13 NUP133
PRPF40A ARFGEF2
RNF20 COPS5
UBC LEPR
RANBP2 KPNB1
KIF1B MAGI1
CASK ATP2B4
PRMT5 PIAS4
AIRE NUP93
APBB1 PRNP
GSK3B PCM1
CFLAR NFKB1
CHID1 STAB1
AIRE MCM2
PHC1 SFMBT1
CDK1 KIF20B
EMD SIKE1
HNRNPD LSM5
RAD9B RAD9A

PRPF3 DVL3
GRIN2D SYNGAP1
ZNF24 RLF
AR RPS27A
SELL SELPLG
PPARG ZBTB20
PPFIA1 PPP2R5D
UIMC1 BRE
PSMD11 CRMP1
MPP3 MORN2
DGCR2 SMURF2
RPA1 RBM23
TGFBR1 NEK6
USP39 DDX24
RPL36 PRKAB1
UBTF SET
VAV2 GRB2
RPS27A GCKR
HNRNPC UBE2I
SNRNPB2 RNPS1
CTBP2 HIC1
OPRD1 PRKCD
SOX10 PRRX2
RAB6A RABAC1
TICAM1 TBK1
DNMT1 MECP2
KDM6AN4BP2
BMPR2 PDZRN3
PRKCE MYH2
TMEM33 ACTR3B
YY1 E2F2
SHBG APEH
XRCC6 TAL1
THRB MED21
TP73 PFDN5
TAF1D POLR1B
PPP6C TIPRL
C4BPA LRP1
BGN JPH3
FURIN AP2M1

MPG PIN4
RBPMS QKI
PTK2 PTK2B
EEF1D RIPK3
HGS MTHFD1L
AMIGO2 AMIGO1
DDX5 GSTK1
CUL4B DTL
MOBKL3 FAM40A
APP MAPK8IP1
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ESR1 SREBF1
UBE2I HABP4
MST1R HYAL2
MAGEA11 CCDC14
EPHB2 MLLT4
NR2F2 FAM46A
PLDN CCDC53
NR3C1 ETS2
MAPT MAPK12
VAPB STX5
LUM WNK1
UBOX5 UBE2H
YWHAQ PRKCZ
TAC1 TACR3
SNX2 SNX6
APIG1 AP1B1
NR3C1 CREB1
THRB CAMK2B
PLG PRNP
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HLA-B GLRX5
PCNA POLDIP2
SELE SELPLG
AIRE RANBP2
HGS FAM5C
HDLBP AKTIP
PSEN2 RPS27A
RHOA ARHGEF18

RHOA ITPR1
HDAC4 SIN3A
TNF SPARCL1
GTF2F2 CDC23
MTOR BCL2L1
MAPK3 MAP3K14
SETD7 L3MBTL1
FKBP1A TRPC3
C6ORF203 STRAP
ACTG1 SH3GL2
APBB1 DDX3X
ASCC3 OTUD6B
GPRC5C ZNF277
CLDN5 TJP1
RB1 THOC1
BCAR3 LRRC59
YWHAQ USP8
RPS27A TSC1
SNRPD3 LSM10
L3MBTL1 ETV7
PSMB3 PLK1
TRAF3 TRAF3IP1
CFLAR FSCN1
LRRC59 PRKAB1
CBX3 DSN1
SPTA1 ANK1
AP3S2 ARF1P1
COPS6 ROGDI
PRICKLE1 SMURF2
DDOST SMYD3
FAS FAF1
ARRB2 AP2M1
LAMB1 ATXN7L2
PRPF8 MEPCE
CLSTN1 MDM2
CSK DAB2
BCL10 HIST1H2BG
ZBTB16QTRT1
RIPK2 HSPA1B
PTMS SMAD2

SNX4 PDGFRA
PARP1 ERCC6
PLD1 ARIH1
ACTN1 MYOZ3
SMTN ACTA1
APPBP2FAM92A1
KRT15 RHPN1
APC ATF7IP
EIF3H EIF3B
ESR1 PRKDC
TCP1 YWHAZ
RGS14 TRAF2
GRIN2B KDM5B
TEC BMX
TERF1 FBXO4
ITGB2 ICAM2
MAPK3 DUSP10
PPP6C ANKRD28
CTCF SUZ12
MIP FOXA2
SUMF2 FBXW7
ADAM9MAD2L2
ABCD3 MLF2
SNRPF SF3A2
BCL2L2BBC3
HIF1A BANP
VIM GFAP
TGFBR1 STUB1
MDFI FAM124B
THBS1 CALCR
HNRNPM CDC5L
MAP3K7 CLTC
NDUFA2 DIP2A
ASIP MC2R
MLLT10 MLLT1
RBL1 SMAD2
CCNB1 RAGE
STK16 PASK
DEPDC1B EXOC8
NOTCH1 ADAM17

GNAI2 EYA1
RAD17 RAD9B
TCF3 MYF6
MEF2C HDAC5
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ZSCAN30 ZNF232
POLA2 PRPF38A
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GMNN HOXD10
MSH4 VBP1
PRKACA ADD2
ORC5 MCM2
USP11 SPRYD3
BTF3 IKBKE
MPZ PMP22
DAG1 SGCA
GRM8 PIAS2
DBNL DNPEP
UBE2D2 UBASH3B
GSTM4 TLE1
SAP18 SIN3A
SIAH2 UBE2I
GRM8 PIAS1
ZEB1 CTBP2
DEK SRRM1
AIFM1 PELO
EPHB6 CBL
CHD1 HIST1H3J
ING5 BRPF3
PFKM CAV3
IPO13 NUP50
LRPPRC FOXO1
FBL PIH1D1
PGRMC1 HLA-B
ASAP2 CRK
MYC CD6
SNAP29STX3
RPS27A VPS36
FOXO3 CTNNB1
FBL LYAR

BTG2 SMAD1
TGFB1 SNX6
POLR2E TAF10
STAT2 IRF9
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NOTCH1 JAG1
TNFRSF10C TNFSF10
RPA2 GOLM1
CDKN1A HDAC1
PIR SMAD9
GNB5 FBXL15
PTPRB NRCAM
MYO10
SIAH1 SNCAIP
CRK BMX
CRK AFF2
SMURF2 RNF11
MAPK1 DYRK1B
CRYAAMIP
GADD45G CDK1
NAT10 LYAR
OAT C2ORF18
PDGFRA CAV3
VMA21 PRKAB1
AR YWHAQ
PCNA POLM
TERF1 ZHX1
TGFA ERBB4
RBBP5 ASH2L
EIF4G2 MKNK1
JAK2 STAT3
USP9X NFKB2
TGFB1 STX8
CASP1 TIRAP
PABPC1 H2AFX
HMGB1 PRKCA
UNC119 TP53I3
EDN1 EDNRB
RPS11 TRAF6
TRIP6 CMBL

MAP1LC3C ANKFY1
HSPA5 SIL1
AIFM1 RPS27A
GYG1 POM121
PTP4A3 KIAA0368
EGFR SEPP1
NR3C1 HSPA1B
RBBP5 EMILIN3
DAND5 TPI1
VPS11 VPS45
LIMK1 SSH3
SMAD7 AXIN1
BARD1 BLNK
NFKB2 PRPF8
FGFR3 PTK2B
PDIA4 GRB2
SMC1A SYCP3
CSDE1 PAK2
RBX1 DDB2
MDM4 UBE2D1
SETDB1 ULK2
MAPT HDAC6
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SIN3B SMARCE1
COPB2 TH1L
VHL RPL35
EP300 SENP3
SLC22A5 SLC9A3R2
PBX1 HDAC1
QKI PTBP2
CCL18 UNC119
PIN1 SMAD2
VHL CDKN2A
NKX2-2 SIN3A
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ABCA1 FADD
NCK2 EFN1
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SLC38A1 SEPHS1

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RAC1 FHOD1
NUP155EPB41
NFYA NR5A1
GRIN2B MAGI3
ZBTB5 CCDC85B
IRS4 ERBB2
CCT4 RELA
TPM3 TFPT
ZBTB43LMO3
SUMO2 CRELD1
HLA-B CALM2
MYC NAP1L1
NPR3 NPPC
WAPALXRN1
SIN3B SMARCA4
TFE3 GANAB
SIN3B SMARCA2
EXOC7 RTN4IP1
GTF2B NCOA1
CDC37 PRAM1
ATN1 CENPJ
PSEN1 UBQLN1
ESR1 UBE3A
SRC PTPRA
DDX1 RAD50
PTPN11 SOS1
HADHBGABARAPL1
TRIM25UBE2D4
MDM2 DAXX
MYC UBE2L3
MAPK3 METAP2
RB1 PAX2
CYP1A2 POR
CSNK1A1 YWHAZ
HSPA4 BCOR
RPS27A CDC6
SPTBN1 PACSIN1
STAT3 LEP

RBL2 SKP2
LYN TYK2
SMAD7 ZNF107
ATN1 RBPMS
DAG1 NCSTN
ATXN2L TOLLIP
MED21 TFG
ACTC1 KLHL17
BUB1B PARP1
MED21 ESR2
MFN2 TCHP
YWHAG PRKDC
CSNK1A1 NFATC3
ECHS1 TNIK
HSP90AB1 CDKN2A
NUP155 TFE3
MAPK12 SNTA1
CD2BP2 RBL1
PHB ANP32B
UBE2D3 STUB1
TPH1 YWHAH
PIN1 NCOA3
PLD2 ALDOA
LMNA CASP1
PDPK1 PTPRO
HLA-B COPG
WDR5 MLL
PTPRC ZAP70
PARK2 DNAJA1
MAPK3 ETV1
ITGA5 RABIF
PTK2 DOCK1
RELA RPL18
MAPT PKN1
MSH6 MUTYH
STRN4 TRAF3IP3
ARIH2 KAT5
NCOA6 ASCC1
GTF2F1 CTDPI
MAP2K3 DYRK1B

TBL1X HDAC5
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NPM1 SREK1
POLR2C INTS2
HDAC1 MKX
SDC3 TUBA1A
MYO1BMYC
SMARCE1 CHD7
DDX49 HAP1
TRIP13 HDHD3
TFE3 RPGRIP1
RET GRB10
CDK9 TRIP12
VAV2 PHF10
GSK3B ANKRD6
PCMT1 CD40
TAB1 TRAF6
LRP2 APBA2
MEN1 MLL2
EWSR1 SLC22A24
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KAT5 CRELD1
CHAT PRKCD
CD40 HSPA4
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SORBS2 ABL1
GLI3 SMAD4
HSPA1B EIF2AK2
PTK2 UBAP2L
CCNB2 MCM2
EGFR DCN
LZTR1 ANKRD53
SMAD7 MBD1
CFLAR SUN2
NEURL UBE2H
UBC SQSTM1
CTNNB1 RBBP5

KRT7 GRB2
ZBTB43ZNF417
SERPINE1 LRP1
FGFR3 POLA2
KPNA5 AICDA
PAICS HLA-B
DDB2 COPS5
CEBPB BHLHE41
OAT UBQLN4
IKBKB TSC1
HDAC3 RB1
PSMD10 RB1
VHL SEPT2
ORC5 CDC45
PRKCB YWHAG
RBP4 GRB2
TGFB1 UACA
EXOC6 MAST1
RAC1 SHANK1
UBE2I PPM1J
MDM2 FBXW7
RAF1 MAP2K1
SNX2 INSR
MSH2 SLX4
STK4 STK3
COL4A1 NID2
AR ERG
SPOP KPNA6
AHSA1 GSTK1
CCR8 CCL17
TGFB1 RAB34
FOXP1 HES1
HOXA11 HDAC1
APOA1 PLTP
EGFR RIN2
KIF11 DCTN1
SNAI1 RELA
IL10RB IL10RA
RPL23 TRAF2
GSK3B RPF2

NPM1 CASKIN1
PTPRB NSF
USP11 KCTD6
SYNCRIP PRMT1
FES ABI1
PPP2CAEIF4EBP1
MCM3 STAT1
CD9 PTGFRN
PCNA PPIA
TRIM27GF11B
EFEMP2 IL16
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DNTT DNTTIP1
SUPT5H CCNH
EP300 GTF3C1
CPNE4 MYCBP
CDK2 TSPYL2
ACTN1 NR1H3
PLIN3 PRAF2
CUTA GRB2
GRB2 PWWP2A
NCL CSNK2A2
DVL2 PRKCB
HGS AHCYL1
GLTSCR2 HAP1
KCNA2 CTTN
ARRB2 NOLC1
WDR5 WDR5B
HGS C3ORF1
EEF1A1BRMS1
MAP2K7 MAPK14
INS CTSD
GZMB GRIA3
CD4 HLA-DPA1
RAF1 GNB2
COL4A2 BMP3
STX1A TXLNB
BAG2 NFKB2
EP300 SREBF2
TCEANC NINL

NLK LEF1
CCL21 CCR10
RPL13 MAP3K1
PPP1R10 TERF2IP
NCOR1 NFE2L2
BSG RANBP3
HLA-B SLC1A5
WDR5 MLLT1
BCL10 TRAF2
HDAC3 PIAS2
ACTN4 CAMK2B
ACTN4 CAMK2G
IKBKB TGFBR1
NCK2 NCKIPSD
HIPK2 WSB1
CCNT1 HEXIM1
ITGAV MMP2
CCBP2 CCL4
ZAP70 DBNL
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XRCC5 ATM
YWHAG FAM13B
CTNNB1 PTPRK
HDAC3 RBL1
YWHAG FAM53C
CRYAB PSMA3
POLR2B RPAP2
ATP5B APC
RNF144A E2F2
KCNQ3 KCNQ5
EPB41 RAB5C
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CBLN1 CBLN3
YWHAG BCLAF1
SFN DYRK1A
PCNA RPS27A
TAF6 HDAC2
LNX1 EHMT2
OPRK1 GABARAPL1
MOCS3 MOCS2

KIF11 KAT2B
ARRB2 SLC9A5
HLA-B DCTPP1
SIP1 SMYD2
PRKACA ETV1
F2R GNA15
PARP1 PCNA
DAND5 MAPK1
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UCHL1 CBX1
PLCG1 SLC23A1
QARS MAP3K14
APBB1 PABPC1
TP53 YWHAE
ATXN1 FAM193B
RNF138 UBE2D4
RAC1 CNTNAP1
RAC1 PIP4K2B
PCNA RPS27A
SORBS2 EGFR
EP300 EMB
GABARAP NCOA7
KCNA2 PTK2B
TCF3 SIN3A
HRAS IKZF3
GMPS PRKAG2
H1F0 CDK2
EIF1B SSR4
ATR HDAC2
NME3 UBQLN4
CNR1 GNA15
ADRB2 GNA11
CD5 CD2
PFN1 MYPOP
CSNK1E BID
HNRNPC SMARCC1
HRAS RARRES3
CSNK2A2 RELA
PSEN1 ICAM5
SLC2A4LEPRE1

GABRB2 ARFGEF2
ZFC3H1MYB
SLC27A4 TMBIM4
ESR1 MDM2
HEXIM1 CDK9
RCAN1 PPP3CA
PRKACA VASP
MED21 CREBBP
SRF MYOD1
GLI2 HDAC1
SRF MYOG
SFN BAD
ATN1 GIGYF2
ATP2A1 TNFRSF1B
ZBTB43LNX1
MAPK8IP2 FGF12
HCN3 HCN4
PPP5C PPP2R3A
SMARCC2 RCOR1
BTK CMTM3
BRCA1 PPP1R3A
TUBGCP6 MKNK2
ZSCAN1 INSM2
NCAN CNTN2
PPIH TNIK
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CDT1 ANAPC5
SRSF5 SF3A2
GTF2B EP300
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YWHAH MAP3K3
PFN2 ACTB
RPS6KA4 MAPK14
RAC1 TRAF6
CSNK2A1 TAF1D
NR2F2 FAM46A
CRMP1 RGL2
CELF2 PCBP1
RAC1 ARHGEF19
PLEKHA5 LARS

ELN PRTN3
SFN TNK1
TRAF2 WDR65
CDT1 CDC23
BMP2 Bmpr2
USP11 POLR1B
HIF1A ARNT2
TRAF2 MAST2
CASK F11R
HCRTR1 CNR1
KNG1 CPN1
CDC23 TSC22D4
RALA RGL4
CDK5RAP2 STARD9
ADCY6 RAF1
NID1 PRELP
CCDC91 SYNRG
HIST1H4I H3F3B
ATP5A1 YWHAB
HAND2 EP300
DAND5 EP300
PRKCH CADM3
NADK YWHAG
GRIK2 DLG3
MRE11A TERF2IP
GRINL1A ANKHD1
ID1 PSMD4
CFLAR CDC37
POLR3C POLR3F
RAD51C RAD51L3
EIF3I LYAR
SLC25A5 MAP3K3
POLB TLE1
DSG1 PKP1
MAP1A DISC1
PIN1 MED1
DHRS7B BRE
SUMO1 CHAF1A
CCDC33 RAD54B
AIFM1 TNFRSF1B

RIOK3 PSMB1
CCT5 ACTB
SMAD2 WWP1
NUMB MDM2
MGMT EP300
SRC EPS8
SF3B2 RNPS1
MYC SMARCC2
HNRNPM MAP3K14
UBE2D3 RNF150
RET CBLB
GSK3B CREM
GEMIN4 TSC22D1
MDM4 YWHAZ
AHCYL1 USP42
BMI1 CENPA
CHEK2 MDC1
H3F3B SF3B2
CD3D CD3G
HOXA3 SOX10
CYP27B1 POU2F1
PRKCB EIF4E
FZD7 MAGI3
GP1BA YWHAB
CAST PIK3R1
PSMB9 NCOA3
TP53 HIF1A
TP53 IFI16
FGR INPP5D
GSK3B AXIN2
EIF3F EIF3L
EIF3E TRIM63
BCL10 RPS27A
MYL6 PINX1
APC GRIK5
THRA DAP3
ACTN1 CDK5R2
EEF1D GRB2
HOXD4 CREBBP
CBL YWHAG

PSMC5 GTF2B
C3 GPR77
PCNA TRAF6
PLD2 CSK
ESR1 CUEDC2
PRPF6 CD2BP2
STX4 VAMP3
SMARCB1 SMARCD1
BCL10 RPS27A
GOSR2 ARF1P1
COPZ2 COPG
KDM6AC13ORF23
HDAC4 NACC1
PFDN1 TUBA1A
UBOX5 UBE2D2
HNRNPH3 CRMP1
GIPC1 ZNF408
MAP2K7 MAP3K11
HOXB9 SLC38A1
USP4 EDC3
MAP3K10 CNKSR1
FBL DDX56
SSSCA1CCDC33
NR3C1 MAPK8
FN1 PKD1
KPNA3 NFKB1
EPAS1 BBS2
FN1 HSPG2
BAD BCL2L10
GNB2 PCBP1
VDAC1 PANK2
PRKCG HABP4
EP300 TP63
MAPK9 PKP2
CDK19 MED29
RELB ARID1B
CDK1 RPS27A
AKAP1 MYCBP
NRF1 PPARGC1A
ECHS1 PAK2

ARL4D UNC119
TP53 BAK1
CYBA NOX1
EMILIN1 EMILIN2
VHL CUL5
FAM175B UIMC1
JAK2 FES
MYC SNIP1
PTPN11 ARHGAP1
CCL16 CCR1
SHC1 IQGAP1
CAPN3 NECAB2
MAP3K3 TUBB2B
SOD2 MCC
MAP3K6 NUB1
MDM2 BAIAP2
NUP62 NXF1
MET PTPN12
SPOP DOK2
CDK9 RBM39
ERBB2 STUB1
MED4 MED29
YWHAH HDAC7
PXN GSK3A
HNRNPA1 IGF2BP1
MAP3K8 TRAF6
PXN GSK3B
SORBS2 MLLT4
UEVLD RNF114
UBE2N NFX1
RAD23A UBQLN4
MYST2 PPID
CASK CD2AP
TERF1 TINAG
PLG CHGA
POLR2B RPAP1
ERCC3 ERCC5
UHRF1 DNMT3B
DNMT3B EZH2
AKT1 MS4A2

SUMO1 PROX1
TENC1 GF11B
ACTC1 FSCN1
PLG C7
NUP153KPNB1
SRC PDE6G
DDX5 PHLDA3
RHOC ARHGAP1
E2F4 NR2E3
MRPL28 OXA1L
TOM1L1 VAV2
SUMO1 TOP2B
YWHAG KIF23
PEBP1 NR2C2
ITGB3BP POLA2
SYNJ2BP LRP1
FLNA SH2B3
TLR3 MYD88
PROC F5
EPS15 REPS2
SNRPE YWHAH
GHR PTPN6
RPS27ACDX2
HMGA1CSNK2A1
PLSCR1EWSR1
STAU1 FMR1
GHR SHC1
MAD2L1 TSC22D4
TAF4 ATF7
GDI1 RAB1B
PHB HDAC1
PSMB9 NCOA2
ATN1 SSPO
RAE1 WDR24
EMD HNRNPK
ATF2 ATP5C1
PHB SET
NR1H2 NCOR2
MDM4 SUMO1
RPS27AKLF6

PTPN4 GRIN2A
MDFI C8ORF33
CSNK2A2 ARR3
RBL2 BRF2
TGOLN2 AP1M1
CDKN1A CUL4A
MDM2 SMC3
PSEN1 NOTCH3
UEVLD TRAF6
STAMPB GRAP2
TAX1BP1 STARD13
TRPC1 TRPC6
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DDOST DEPDC1B
MYO1CCBL
CXCR2 PPP2CA
LRPPRC CCNA1
RPS27AELF4
RFX3 TRAF2
FCGR2B CRK
FKBP2 ARFGEF2
TSHR GNAQ
SUPT7LTP53
ARHGAP8 SH3GL1
PLSCR1FBXL18
PABPC1 PIN1
ARRB2 AP1B1
HNRNPK RBM7
FKBP2 ARFGEF1
CLPS PNLIPRP2
NSL1 DSN1
IL6ST CTF1
STRN4 KLHDC2
RXRG ITGB3BP
SMAD4DCP1B
YWHAG SRRM1
CYP27B1 COPS2
KIT PRKCA
PRKCA FLNA

PARP1 APTX
HSPE1 ATG5
COL18A1 FBLN2
RINT1 XPNPEP1
CASP3 PSEN2
PCNT CHD4
MAGEA11 MLF1
MAPK3 RPS6KA3
DSC2 DSG2
SCAMP1 TP53
ESCO2 PHF21A
DDX5 RIPK3
TAX1BP1 TRAF6
ING5 C19ORF50
NPM1 CTNBL1
F10 PLAT
STAMPB AFP
CHMP2A VPS4B
SH2B2 JAK3
CDH1 CTNBL1
CDH1 CTNNA1
NFKB1 TUBA1A
BRCA1 EP300
ENO3 RPS3
MEGF10 SCAPER
NCBP2 SF3A2
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DCTN1 HDAC6
CDK1 HMGA2
RPL28 UBE2D3
H3F3B PARP10
EPHB2 GRIN2B
IGHM VPREB3
NCKIPSD DMRTB1
F10 PLG
PHB PHF3
SMAD9 PHKA2
PIK3C2B SHC1
TAF12 TAF9
HOXB13 ALX4

PTPN6 GRB2
NUP62 CCDC53
HSPB1 IGSF21
HIP1 CASP9
BMP4 NOG
CHAT PRKCZ
SOX15 HOXB9
PSMD14 PSMD1
MAST3 PTEN
AP2A1 NAGPA
ETS1 MAPK3
RASA1 CASP7
MED21 KAT2B
ANK1 L1CAM
GBP2 BTBD2
ADRA1B GNAQ
PHB2 FLRT3
TP53 PARP1
DLG4 GRASP
NDUFA6 PHLDA3
ELF3 CREBBP
CHEK2 ERCC6
DCN THBS1
CHRM3 NALCN
JAK1 TYK2
ATM SMC1A
IER3 CAMLG
PIK3C2B LTK
POLR2B GSK3B
EP300 CDC20
GRB2 TRAIIP
SVIP AMFR
TRIM46 AK5
NFIC TLX1
SMAD7 HDAC3
NRAS RPS20
UBE2L3 CBLC
IL4R IRS1
ZNF250 ZBTB8B
EXOSC6 EXOSC4

TP53 POLA1
UBE2N TRAF2
AXIN1 APC
CDK19 MED9
LCK MS4A1
ATM MDC1
GSK3B STRAP
UBE2N MID2
ERBB2 PLCG1
FANCI USP36
EIF3H ABI3
HTRA2 NDUFA13
DEGS1 SURF4
LTA4H TMEM62
RAP1GDS1 RAC1
MAP3K3 RNF126
MAP1LC3B ATG4B
PTH PTH1R
HIST1H3J DYRK1A
GTF2F2 GTF2B
HRAS RALA
RPS27A GFI1
CDC42 ERRF1
RGS5 GNAI1
RPS27A MAP3K5
CEACAM1 FLNA
RAB5C RIN2
CALM2 ESRRG
UBE2E1 RNF165
KIF3B KIF3A
BID BCL2A1
CCT8 TBK1
SMARCC2 ING1
THRA CREB1
GSN PTPN12
HIST1H3J CUL4A
PSMD10 CDK4
SPRR1B USF2
SRC GUCY2C
IKBKAP TAC3

HLA-B TRIP11
HSPA5 CDK9
EIF1B UBE2D1
TBP SMARCA2
ICAM3 ITGAD
HSP90AA1 ARNT
RB1 PIK3R3
GPRC5C OLA1
MAP4K4 PIN1
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EIF3F TSC1
RACGAP1 ECT2
EP300 TP53BP1
GRIA1 CACNG2
RER1 SH3GL3
SRC ADRBK1
AIF1L RIPK3
HSPA5 NFKB2
NCOR1 PDCD2
GH1 PSMD13
WASL EEF1D
NR3C1 TP53BP1
RANBP2 PTBP1
EFS CRK
MYST2 SLC38A1
SMPD2 PIK3CG
CDC25C PKN1
DPEP3 RBBP7
RGS1 FUNDC2
QARS MAP3K5
NOP56 KLF6
USP19 GCN1L1
DPEP2 TACC3
NRD1 FBXW11
ACVR1 KLHL35
FAM48A UBQLN4
CDCA3 TRAF2
CARD18 CARD8
ERBB3 RPS27A
ITPR1 EPB41L1

SLC9A3R1 GNAQ
NUP93 GSTK1
ACTA2 PCYT1B
DDX20 NCOR2
RBMX PSMF1
ERBB3 GRB2
CDK2 POLD2
AP1G1 AP1M2
HLA-B TSN
CDC25C MAPK14
CSTF2 UBQLN4
ITGAL ICAM3
GLI3 HDAC1
TXN PSPH
PTEN PPP1CA
AZIN1 FANCC
SIAH1 PIAS3
NPPB EWSR1
LRRC59 USP20
F8 LMAN1
COPZ1 COPG
PLSCR1DLK2
RPS27AESR2
PXN SORBS1
ERBB2 SOS1
PLSCR1ADAMTSL4
PPM1A CACNA1C
TRA2B TNPO3
RFC5 UNC119
DKC1 LYPLA2
RAD1 RAD9B
ABL1 CTNNB1
YWHAH MAP3K5
PPP2CAKISS1R
PDCD10 CHMP5
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KLHDC10 SH3GLB1
HNRNPC AP1M1
RBBP7 SIN3A
CSNK1A1 BID

MCM10 CDC5L
EP300 HIPK2
ZNF250 ZNF165
HLA-B MAPRE1
MAN2A2 LUC7L2
HLA-B WDR48
GNA12 BTK
SEC22BIKBKE
HIVEP1 BTRC
RPS27A CREBBP
HTATIP2 ASF1A
NFIC GLRX
RB1 AURKB
SUMO1 FADD
MAN2A2 GIT1
SF3A2 RBM17
HSP90AB1 FBXO33
HMGA1CEBPB
SRC ACTB
USP1 MYH9
PSG4 SMAD2
TP53 PPP1CA
SLC12A2 STK39
HLA-A HYOU1
CRK STAT5B
DAND5 MSX1
HLA-B SUPT16H
BRCA2 SHFM1
ATG13 MAP1LC3C
EIF2B2 EIF2B4
RPS27A STAM
PMS1 BRIP1
SMAD2 NUA2
NR3C1 SMARCB1
SNRPD2 SF3A2
FLNA OTUD5
MED4 MED9
HCFC1 ZNF335
GRM7 PICK1
SUMO2 ZNF496

XRCC3 ZNHIT3
TEC PTPN21
ACTL6A KAT2A
NCL APTX
UBE2E1 TRIM2
ATP6V1B1 ATP6V0A1
SRF NKX2-3
DLG4 LRP8
RBPMS ZC3H10
ISG15 RGS3
CSNK1A1 PPP2CA
MYOD1PSMD4
XRCC5 ATR
CDK4 PPP1CC
PDGFRB PTEN
SF3B4 FAM115A
AR UBE3A
TRRAP MRFAP1
GNAI2 MDFI
DGKI VHL
UBE2L6 RNF144B
GFI1B GRIP2
TRIM37TNFRSF1B
DDX5 STK24
RPL35 PINX1
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RFX1 NFIX
ITGB4 GRB2
GSPT1 ARF6
SPN MSN
TEC PTPRO
PTN GPRASP2
CRK FRS2
TLR4 RNF216
NFKB2 TBK1
PRKG1 FHOD1
HSP90B1 FANCC
PGR CCNA2
ARRB2 MAPK9
PCNA SETD8

IKZF4 IKZF5
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SVIL NR3C1
GEMIN4 STXBP2
ELAVL4 EWSR1
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EIF4A2 GNG12
ARNTL EP300
FAM190B EXOC1
CDK4 TGFBR1
EXOC8 PLDN
MAPT SNCA
ALDOAATP6V1E1
HDAC2 SALL1
PTN SLC25A36
NCL PPARGC1A
SHMT2 BRE
TMCO1 GSTK1
PRPF40A WBP11
CALCOCO2 TP53RK
RHOD ARHGAP29
MAP3K7 DARS
NFKBIA FBXW11
TGFB1 APP
SPTBN1 TNIK
IRAK1 CAMKK2
SMAD2 ERC1
HLA-B ARF6
MCM7 PLK1
APBB1 APLP1
TP53 TAF9
GBP2 SEPHS1
SPP1 CD44
RBL2 USP4
HIST1H3J MYST1
PPP5C CPNE4
SRC SMARCB1
PEX19 SMAD2

RPL5 RPS23
EZR BID
CLIP1 CDC42
FYN CAV1
MECOM UXT
EGFR AHNAK
TRIM63 TRIM55
MCRS1 ITS2
SPTBN1 CEP63
TRIM63 TRIM54
SLC25A6 MAP3K1
ZHX3 ZHX2
GLI3 SKI
XPC ERCC4
RELA NSD1
HIST1H3J CBX1
LDLR LRPAP1
YWHAZ SF3B3
CCR5 CCL8
RAB27B RPH3AL
UNC119 ORAI2
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IGFBP6 UBQLN4
ARPC3 CTTN
APC LAMA3
GSK3B GEMIN4
MTA2 HDAC1
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GHR PTPRK
BRAF RHEB
CNST EWSR1
BCAR1 TUBA4A
JAK1 CSF3R
HLA-B SRP14
TAB1 RUVBL1
ATP5C1PAWR
MTA2 ATR
NDUFS1 MDH2
HSPA9 RIPK3
ZMYND19 MCHR1

RND2 RACGAP1
CYFIP1 NCKAP1
COPS2 COPS3
PHB E2F1
RIPK2 TUBB2B
ERH TRAF6
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FANCA RMI1
NPM1 PARP1
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CUL5 SMURF1
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MATR3 DISC1
KLF4 RPS27A
TNFRSF21 APP
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SEPT11 TRAF6
CBL SLA
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CDK1 IL16

PDGFA PLCG1
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UBE2U MID2
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PRKACB CBF3
RHOQ EXOC7
SRC GRIN2A
HDAC2 HELLS
TOM1L1 GSN
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PLXNB1 ARHGGEF12
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LYN SHC1
S100A9 CDC42
LAP3 UBA5
LYN PTPN6
ERBB2 PTPRC
AKR7A2 TRIM63
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MAPK1 SMAD3
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FEZ1 ZNF251
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DLG4 NCKIPSD
GDF9 BMP15
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PHF16 ING5
POU2F1MSX1
TP53 HMGB1
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ATP2B1CALM2
YWHAH DMWD
SRC VCL
CDKN1A SKP2
SMARCC2 CARM1

PSEN1 APH1B
NDRG1 EWSR1
CHD4 XRN1
HRAS CAV1
GABBR2 ATF5
SUZ12 EZH1
CASP5 MAX
EP300 HDAC6
ASS1 AKTIP
TCL1A CALCOCO2
MAPK9 DUSP19
HSPA9 TRAF6
SMARCE1 CARM1
TRIM27 UBE2U
BID BAK1
NDUFB3 ATP5C1
CCNB1 CDC14A
ATF2 MAPK1
CTCF SIN3A
YWHAG PRPF38B
RELA KAT2B
DDX5 NCOA3
RPS11 NFKB2
CDK1 PBK
TSC2 UBE3A
SVIL YWHAG
SUZ12 JARID2
NCL MAP3K14
BIRC5 INCENP
PBX2 PKNOX1
CTNNBIP1 RUVBL2
EP300 PPARGC1A
CSNK2B RPAP1
HLA-B SERBP1
POU2F1 TEAD1
ALOX5 GRB2
NCOR1 PPP1CC
YWHAG CCT2
MAPK3 GTF2I
PLAT SERPINI1

PSEN1 CIB1
LYN SRC
YWHAG KRT85
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EPHA2 EFNA5
RAB4A ZFYVE20
APBA1 STX1A
HLA-B TBCA
SPERT NINL
PPP2R1A PPP4C
AR SRY
STX6 VPS11
BMI1 USP11
PRSS23 SLC25A6
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GABARAP AES
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ADRB2 PRKCD
TNFAIP3 IKBKG
PIAS1 NR3C2
PFKL HLA-B
RGS12 PLCB3
PTP4A3 SEC61A1
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NFYB TAF11
PRPF40A WAS
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GNB2L1 CCNA1
PLSCR1DHRS1
PPFIA3 GIT1
TAX1BP1 RNF11
ST13 IKBKE
RPN2 TMBIM4
PRKACA PPP1R1B
UBE2N AMFR
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THOC7 TSG101
LDOC1 ZNF408
EWSR1 EIF2AK4
SF3B2 SF3B4

EEF1D IKZF5
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TIAM1 PARD3
NRARP IKBKG
AMOT UIMC1
HMGA1EWSR1
RPS14 RELB
HSP90AA1 VEGFA
C1ORF94 RBPMS
MAP1B GSK3B
HNRNPK TCEA2
CFLAR DAXX
USO1 CSNK2B
SRSF2 SREK1
EED HIST1H3J
TP53 CSNK2B
RPS15AEWSR1
SCAPER CELSR3
NFKBIA MED19
TFPT INO80
DBF4B MDFI
FRS3 GRB2
ATR UPF1
COPB1 COPG
ACTG1 TAB2
PIN1 TRAF6
RGS1 UTP14A
RAB1A GORASP2
ZNF644 CDYL
PKM2 MDM2
SRC EDNRA
EGFR FES
PTN ATP5C1
PGRMC1 IKBKE
PRKAR2A GSK3B
TNFSF11 NFKB1
GSN MDM2
FEM1B MID2
CAPN2 NFKBIA
VHL EIF1AX

SUMO1 KHSRP
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XPA ATM
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FSCN1 FTSJ1
CD2 GIGYF2
TGM2 PPHLN1
CPLX1 SNAP25
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FAM160A2 RABAC1
HIST1H3J HDAC1
ERBB2 ITGA5
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EEF1A1 XPO5
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CDH1 RPS27A
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DLG4 KCND2
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ALOX5 TGFBRAP1
NDRG1 AP1M2
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HDAC2 PHF21A
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CCNE1 FOXM1
SHBG SRI
SOX9 SMAD3
CTBP2 ELAC2
WAS CDC42
NFYA TAF6
SMARCC2 MAP3K3
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TEK PTPN11
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HSP90AA1 CUL4A

GRB2 MTA3
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SIN3A IKZF4
DFFA NECAB2
SORBS2 VCL
LMNB1 MCM10
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THRA GTF2B
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GRB2 C1ORF55
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PLEC COL17A1
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LGALS1 MUC16
UBE2N RPS27A
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EPHB4 GPRIN1
ARRB2 MED8
GOLGA2 RAB1B
NOL4 PRMT1
ADRBK1 RCVRN
CSTA EVPL
SORBS2 TRAF4
GAK AP2M1
GRIA4 PICK1
CRMP1 CDK5RAP2
RHOA ARHGAP21
BMI1 CDC6
MMP7 BCAN
SREBF2GATAD2B
LZTR1 PAPOLG
RAC1 ARL2BP
MAP3K8 TNIP2
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IL21 IL21R

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ERH PRKAB1
USP54 CHMP4C
OXTR GPRASP1
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SYVN1 SVIP
BRAF RPS6KA2
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CRHR1 GNAQ
ALB YWHAE
CPSF6 WWOX
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EXOC8 MBIP
CD5 ZAP70
WASL CIB1
ARNTL UBE2I
TEAD2 NCOA1
RPLP2 RELB
CCNA1 HIST1H1A
SUMO1 COL16A1
CYP27B1 LCOR
EPOR GAB1
PSMC2 GRINL1A
NTRK1 SHC3
PSMC2 SUMO4
NMU NMUR2
ETS1 AARS
ACP1 KDR
FOXA3 TLE1
FOXA3 TLE2
CALM2 IKBKE

COPB2 GSTK1
TNFRSF10B ARAP1
ERBB4 RNF41
TAF7 TRIM22
ARHGDIA RAC1
GNA12 AKAP13
SKIL CPNE2
H2AFJ BRCA1
STRN FAM40B
HRAS RGL4
CAMK2G SMAD2
ATM OBFC2B
PRKCG GJA1
COL3A1 PCOLCE
ACTG1 FEZ1
LMO2 BEX2
FOXO3 FKBP4
ZAP70 CARD11
CSNK2B HIRIP3
UIMC1 LIN7C
YWHAG KLC1
ERBB2 ERFF1
MTHFD2 MCC
UIMC1 INO80B
GTF2E2DNM2
AXL GAS6
SETD1A USF1
IGF1 IGSF1
PGR DDX54
LCN1 LMBR1L
TRAF5 NGFRAP1
VHL RAB35
A2M NCDN
GIPC2 FZD3
MAD2L1 MAD1L1
SMAD2 RPS27A
YWHAQ YWHAE
A2M MAST1
GNAI2 MAP3K3
IDH1 ZHX1

ARF1P1 GGA2
ARF1P1 GGA1
MCM7 PELO
CHEK1 MSH2
POLB XRCC1
NUP93 PRKAB1
PTPRZ1 GIT1
PSMD11 PSMD14
RPA1 RECQL
PRKDC IKBKG
TCAP MDM2
E2F4 LIN9
CCNB1 UBQLN1
MYF5 CSNK2A2
EIF2S1 EIF2B4
NCOR1 TCF12
NTRK1 FBL
SNCA CSNK2A1
PIN1 THRAP3
FAS CASP8AP2
CRMP1 TFG
PSMC5 NFKB2
POLD1 POLD2
APP GPC1
TAGLN2 PSMD6
POLR1E RRN3
GNAI2 TTC1
EGFR EPN1
DRD5 NCS1
UNC5C DAPK1
KCNA2 PTPRA
FASLG SH3PXD2B
ETS1 SV2A
OGDH USP13
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CUTA MCC
TXNIP SMURF2
PCBD1 HES4
PTPN11 BTLA

MSH6 BARD1
RRM1 ATM
KCNA5 PTPRE
DVL2 RBPMS
ETF A MCC
XRCC5 ORC2
XRCC5 ORC1
STAT1 UBE2I
ZSCAN30 SUFU
RGS1 MAP3K12
GOT2 MPG
UBC UBE2B
CDK5R2 CAMK2A
CTSA CTNNBIP1
YWHAQ NIF3L1
VAV2 TCP11
ALDOAYWHAZ
XRCC5 XRCC4
TSC22D1 HIGD1A
AKR1B1 DST
GP1BA YWHAQ
RAC1 NCKAP1
DNAJB1 HSF1
HSPA1B PACSIN3
EP300 CDT1
CUL1 FBXO25
TNP1 PRKACA
USP30 CLPB
ERH MED31
XRCC6 CD40
TIMM44 RAC1
SH2B2 GRB2
TNFRSF4 TRAF2
RBL1 TRIP6
GIPC2 IGSF21
ABCE1 RNASEL
USP14 UCHL5
PLD2 ACTN1
SLBP LSM10
REST CDYL

CSNK2B TAF1D
SF1 RBM17
ARF1P1 ARHGAP21
RBL2 RBBP8
PYCRL UIMC1
RPL22 CSE1L
TOLLIP IL1RAP
ELP2 ELP3
MED10 CDK19
RB1 TBP
TGFB1 BMP3
ALDOADYNLL1
UBE2I HNRNPD
ZNF211 NDEL1
LMNA UNC13D
KHDRBS1 FYN
SKI PRDM16
FN1 RAG1
TGFB1 BMP2
HEXDC ADPRHL2
SUV39H1 CREBBP
MARS MAP3K3
ABCA1 SNTA1
WDYHV1 DCTPP1
ABCA1 SNTB2
BRAF PRKACA
ITGB1 HSPG2
CASP3 SLK
ACTL6A KAT5
F2RL2 CTSG
JAK2 CCR5
USP14 SRPRB
ZC3H18 OSBPL10
CDKN1A CDK6
CLOCK PER3
CDKN1A CDK5
CHN2 RAC1
APP PRSS3
RHOA CRMP1
NUDT5 PRKAB1

XPO1 CRK
PAFAH1B3 LNX1
NECAB2 VTA1
FAM160A2 HOOK1
GTF2F2 PITPNA
YWHAZ BSPRY
HDAC4 BCORL1
VAMP3 DDB1
PLSCR1EWSR1
BID MCL1
SUV39H1 HDAC2
JAK2 STAT5B
YWHAG HIVEP3
MAX CTR9
WRN WRNIP1
FLNA TRAF2
RPS27ADDB2
STAT1 CEP250
MDFI ZNF408
PFN1 ACTA1
TUSC2 LRBA
TTK TUBB1
PCNA SEC23IP
NFKB2 NFKBIZ
VCP MAP3K3
ATP2B1YWHAE
RELA CREBBP
WNT1 SFRP1
GSK3B ACLY
ZNF397 ZNF396
PLIN3 RHOBTB3
CDK2 CDT1
PARK2 LRRK2
HERPUD1 STARD9
CASP7 DCTN1
MED1 THRAP3
SGTA SRGN
HAT1 G3BP1
KRT1 MBL2
S1PR2 GNAQ

CA12 MRPL9
EGFR NUMBL
TGM3 CALML5
DRD4 CLIC6
YWHAG PPM1G
SRSF4 SRRM1
UBL4A MAP3K3
C21ORF77 IKBKG
TCF3 MAPKAPK3
KCNJ4 DLG1
BRCA1 SMARCB1
STAM2 UBE2H
POLG SSBP1
USP19 CANX
RELA NCOA6
SHANK2 BAIAP2
PRDM1 PRMT7
PIN1 KLHL20
RELA HDAC2
MARK3 YWHAG
DYNC1I1 NDEL1
AGFG2 EPS15
FHL3 RFX6
PHB SKP2
POLD1 GRB2
ITPR3 TRPC4
CELF3 RBFOX1
MED1 MED16
NUP62 ARFGEF1
VHL HIF1AN
ATG7 MAP1LC3B
RELA PDCD11
PPP5C CRY2
IL32 PRTN3
TXN CD40
CDK2 FAM113A
TUBB NFKB2
EIF4E LRPPRC
NUP62 THAP1
HAAO GAD1

ZNF24 SCAND1
BMPR1B RHEBL1
ACP1 FNBP1L
CTR9 PAF1
RELA TAF4B
BAG3 HSPA4
SKIL NID2
PLCB2 TRPM7
MYL2 TRIM63
PSMD11 PTN
NUP93 PHLDA3
PIK3C2B ERBB2
PDHX EWSR1
CCT5 PPP4C
MYL1 EPB41
RNF34 UBE2F
HMG20A GTF2A1L
CSTA PI3
CAD PPP1CA
HIST1H3J MLL
RPN2 GSTK1
PSEN2 RAB11A
OTUB1 DDX24
CSK ID3
GTF2H1 PSMC2
SLC38A1 SEPHS1
EIF3F EIF4A2
UBC CKLF
BAG6 IMMT
GRK5 SNCA
SOCS1 VAV1
F2RL2 JAM3
STRN4 WIP1
CSNK1D CDK5
RBP1 HDAC2
AP2B1 NUP54
HLA-B RPS14
PSMB9 NCOA1
PML FOXO1
SMAD2 EIF3L

HNRNPUL1 NXF3
IPO8 ATXN1
FAS C14ORF1
PSMD12 GH1
FBN2 LTBP1
MET YWHAZ
HDAC3 NR2C2
RELA IRF3
BRAF YWHAG
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ARHGAP8 BNIP2
PLSCR1SMCP
SOD1 RNF19A
TP53 SERBP1
TUBB HDAC6
SEC22BVHL
DSPP IKBKE
WNT1 WIF1
DLG4 NLGN3
PLSCR1CNTFR
PPARGC1B ZNF182
ESR2 CREBBP
CUX1 MAX
DDIT3 C14ORF80
APOA2 APOC1
HIF1A TSGA10
RGS4 CALM2
PA2G4 IKBKG
HLA-B RPS21
CASK LIN7B
SYK PRKD1
OFD1 ITGB3BP
SNTB1 DTNA
PPM1B CDK2
CASP7 IKBKE
PPP1CASYTL2
DLST SCFD1
PLAU HGF
STAT1 CPSF3
PRNP MOG

G3BP1 DHX40
DNAJC7 MKNK1
UBA5 PA2G4
PRPF40A HTT
POLR3A PKP2
EIF3G USP3
DAP3 FADD
MCM6 MCM8
UBE2D2 DTX3L
SEC11AC2ORF18
MCM6 CRLS1
HNRNPK SF3A2
HNRNPK SAFB
PSMD2 INSL6
LCK PTK2B
HDAC3 ANKRD11
HDAC3 ANKRD12
RRAS SRC
TP53 DAXX
TP53 PPP2CA
AP1G1 ARF1P1
TFRC HFE
SLC9A3R2 SLC22A4
MYC KIAA1524
PNP HLA-B
TXNDC9 GIT1
CUEDC1 IKBKG
TNFRSF10B CASP8
CHD1L API5
TULP1 NCK1
COX5A TMBIM4
NASP ULK2
RXRG NR1H3
MAGOH THOC4
SIAH1 CACYBP
UBE2N ZNRF3
ERBB2 VAV3
DVL3 TNFAIP8L1
ARCN1 TSC22D1
FLT4 PTK2

PODXL SLC9A3R2
PLEK ACVR1
CCBP2 CCL5
MTPN RELA
CCBP2 CCL2
IPO8 TRADD
CHM RAB1A
PIIP5K2 MEF2D
SETDB1 FLYWCH1
TRAF3IP1 SNX6
CEBPD IPO4
CDC42 TRPS1
DAB2 APLP2
TCF3 TAL2
USP11 SEC61A1
HOOK3 VPS16
UBQLN4 TNRC6B
FBXL18KRTAP4-12
HSPB3 C7ORF64
A2M EXOSC1
MAD2L1 ANAPC2
OMA1 SIAH1
PRKG1 MRVI1
CDT1 BAZ1B
SNAP23STX1A
MED26 MED28
TUBB TRAF2
MYBL2 NCOR2
AIRE NASP
ANTXR2 RPS27A
RAB7A RAB17
TP53 CREB1
RXRB NR1H3
MATN2MATN1
TCP1 CCT8
TCP1 CCT4
MYC TUBA4A
EPHA2 EFNA4
EPHA2 EFNA3
AR EP300

CIT RAC1
AKT1 STK4
SF3B4 SF3A2
MUC1 GALNT1
MUC1 GALNT2
PARP1 GTF2F1
PSMB1 PSMB7
EPOR GRAP
RET GAB1
AKT1 SH3RF1
DLG4 PTK2B
POU2F1NCOR2
PSMB4 PSMB5
DFFA HNRNPL
S100A9 ARRB1
TPM2 TPM1
LNX1 MAGEB18
SET CKLF
TRO USP7
TP73 PAX6
INADL CACNG2
UBTF TAF1B
ENAH TES
CGA FSHB
ZNHIT2RUVBL2
BID BAX
KIF5C YWHAQ
CGA LHB
BID BCL2L1
DAND5 AHR
UBE2I TRIM29
CGA TSHB
SLC38A1 GBP2
KIF11 IKBKE
CALM2 CAMK1
DNAJB1 FANCC
IRAK1 NLRP12
CRHR1 GNAI1
SS18L1 ELF5
YWHAQ SH3BP2

JUP PTPRK
MYOD1PABPN1
ESRRA PPARGC1A
MAPK6 TMEM2
HIST1H3J EHMT1
CTBP1 KLF12
HLA-B B2M
ATF2 CCDC6
UBE2I IKBKE
RIPK2 CARD6
DCC RPS23
S1PR1 AKT1
CDKN1B RHOA
ATP7A PDZD11
GJA1 CAV1
POLR2B MED28
CCNB1 FZR1
PCNA DMAP1
YWHAG LRP1
TOB1 SMAD9
GATA2 ZFPM1
YWHAG SRSF1
RNPS1 GEMIN5
EP300 INGX
GNB5 MVD
NCK2 WIPF2
ATR ARHGEF1
LRRC59 TRAF6
PSMD12 FTSJ1
RPS3 NDRG1
TGM2 HIST2H2BE
GRB2 ASB16
ABL1 ACAP1
APIG1 APIAR
HMGA1ELF1
WWP2 DIDO1
APBB1 NONO
ACTG1 NFKB2
HLA-B SEC23A
TSC22D1 POLDIP2

CRY2 TIMELESS
IKBKAP TTR
MAPKAPK2 YWHAZ
KIF1C CSNK2A2
MYOM1 TTN
DYRK1A CLASRP
DNM1 ITSN1
LPAR2 ARHGEF12
YWHAB LARP1
ABL1 SNX17
AQP1 MDFI
GRB2 NAP1L5
BCL2 PSEN1
YES1 PAK2
SNRPD1 WDR77
ID3 ZNF408
PDE6D GRK1
ATXN1 VSTM2L
MAP1LC3B LUC7L2
ESR1 PPP5C
PTPRD MDM2
ATXN1 ZNF488
NDN DHCR7
COL4A2 SKIL
CP LTF
GTF3C1RBM23
DDOST ARF6
TSC22D1 GSTK1
TLX3 HOPX
GRIA1 LGALS12
ACTG1 MAP3K14
TP53 S100A1
RPS16 MAP3K3
GOLGA2 RAB33B
RDX GNA13
VHL PTGES3
SUMO1 PPM1J
IGF1R YWHAG
MAPK3 DUSP9
KPNA4 TGM2

CBX4 DNMT3A
AKT1 IRS1
RPL10 PSEN1
GAP43 ELAVL4
ZFR RPAP1
NFASC SCNN1B
RPS27ARNF2
OTUD5 CACYBP
COLEC11 UBL5
NFKB2 HNRNPU
HSPA4 STUB1
EGFR CSRP1
YY1 MDM2
SLC38A1 HIF1A
CRX RAX2
BRCA2 BRE
MED21 TCEB3
UBE2K DTX3L
CDKN2A ACTR3B
HLA-B DRG1
IGF1R SRC
KIF5B PCBD1
RAD17 ALK
HSP90AB1 RELA
WEE1 SMAP2
CRK DOCK3
CANX GRIA1
VAV2 TTN
MED1 MED31
H2AFX RAD51
NBL1 BAG6
MED12 MED28
MEN1 RPS27A
PTPN12 ZFP2
NFE2L2 EIF2AK3
PSMB1 EXOSC6
RGS20 CRK
TIMP2 MMP14
HLA-B VDAC3
MAP1LC3B ANKFY1

RAD1 HUS1
CCR4 CCL17
RBBP7 ASF1B
DDB1 MAFB
SRC STAT3
TTR GOLGA2
TEK DOK4
PDCD6 PLSCR3
PLXNB2 ARHGEF12
ZNF251 FEZ2
CBX5 H3F3B
UBE2W TRIM17
PRKACA RELA
DNAJB1 BRMS1
SMAD2 ZFP106
FLNC SMURF2
GRIN2A PTK2B
FOXG1 FOXO4
CLTC PTK2
RAB27A SYTL2
SEC63 PHLDA3
PPP6C IGBP1
SOS1 PACSIN3
TXN TMBIM4
MDM2 MEA1
CALM2 YWHAE
UBE2D2 RFWD3
MDM2 STX1A
JAK2 PLCG1
ABCD1 PEX19
MYF5 CSNK2A1
HDAC2 DMAP1
SPINT1 ST14
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TCEANC IKBKG
HNRNPD SAFB
HSPA4L TIMP2
TNFRSF13B CAMLG
TGFB2 SMAD4
PHYHIP HDAC11

BCL2 CDK2
RRAS2 RASGRF1
RPL30 MAP3K1
LMNB2 TOLLIP
FYN PTPRZ1
JAK2 SIRPA
CDK4 UBXN1
TIAM2 PARD3
RAC1 CDC42BPG
GPC1 FSTL1
NPM1 MAP3K14
GNA13 S1PR3
GNAO1 NUCB1
MAP4K4 RTN4
WEE1 PIN1
PIK3R2 TEC
DNTT PRPF19
FYN PTPRE
SMAD2 DPP10
OMA1 PAFAH1B1
SETD1A MYB
NFKB2 ILF2
NCOR1 RDBP
NCAN TNR
CHML RAB1A
FOS EP400
SLC38A1 C14ORF1
CENPB OPTN
NCOA2 CREBBP
MED7 MED1
MEN1 JUND
NPM1 NSUN2
VOPP1 TAC3
RAD17 FZR1
EMD TBL1XR1
EPB41 RPL38
JAK2 GTF2I
FANCD2 FANCI
PIK3C3 KIAA0226
RIPK4 PRKCD

CLEC1B NINL
SMARCA4 MED17
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ADAM10 PDIA3
ARAF KLHL12
DEAF1 GSK3B
SEPT8 SRRM2
DEAF1 GSK3A
EVI5 PLK1
EPB41 DYNLL1
DNAJB1 PSEN2
PVRL2 PICK1
NFYA PWP1
RRM1 INSL6
PTS FNDC5
DAB2 SMURF2
SMAD7 SOX13
TRDMT1 COPS6
ATP5I SMAD2
ALDOAPLD2
EP300 GATA5
COPS6 CHRN1
CDK1 EIF2AK2
INSL6 PLEKHA4
PVRL2 PVRL3
CRYAACRYZ
FAS FEM1B
MSH2 BARD1
GHR IRS1
MDM2 HIF1A
UBQLN4 NXF1
HMGB1 CEBPB
RNASE4 ACTC1
EED KDM5A
CDK5R1 CDK5RAP2
TUBB SMC3
NPM1 PRMT2
RPS16 CDC5L
UNC13B RIMS1
RDX DRD3

FLNC WIP12
TRIM25 UBE2J2
EIF1B RAB7A
RAD1 RPA2
TRAF3 EDAR
CALM2 FKBP8
TP53 H2AFX
MMP20 ACAN
STK11 WDR6
AR ZNF318
HOXD3 ALX4
RB1 PAX5
UBE2WRNF114
SMAD2 TP63
RPS27AIL1R1
RRAS2 RAPGEF1
RAB3B SMAD4
STXBP3 STX4
BMP6 CHRDL2
EXOSC4 EXOSC1
EXOSC2 EXOSC5
TAF11 TAF2
DDX20 LSM2
RAC3 ANKRD11
COX6C TH1L
PIK3C2B EGFR
STXBP1 CDK5R1
NR3C1 CLIP1
GNB2L1 LRP12
MYL3 CASP3
LSM6 LSM4
MT2A GPR50
CASP8 BFAR
RNMT RRGTT
TNFAIP3 TRAF6
EPOR CBL
CDC27 SMAD2
IFNB1 IFNAR2
KPNA1 NUP54
PEX14 PEX19

ROGDI KIAA1377
F13A1 F2
CUL4B WDR82
PTPRS UNC119
SMAD2 LEMD3
TGOLN2 PPP1R9B
KIAA0240 DTNBP1
SPATA2 TRAF2
LCK PTK2
TRIM65 UBE2Z
MCC LRRC59
EXOSC9 EXOSC7
PTP4A3 EFTUD2
SMARCB1 HDAC2
MAPK7 MEF2D
SMAD1 RASD2
PPAT RPS6KB2
DNMT1 CBX1
PTPN3 YWHAZ
HAX1 YWHAQ
ANXA1 TGM2
HLA-B RUVBL1
YWHAG TRA2B
NUP107SEH1L
NFKBIA G3BP2
PEA15 PLD2
PRNP TBPL1
YWHAG RPS27A
HNF4A MED1
HNF4A ZNHIT3
TLR2 EGFR
MTA2 SATB1
CALCOCO2 SMARCD1
CDK4 CDC37
QPRT SUFU
PCDH17 MYB
SMARCB1 CREBBP
FOXP4 FOXP2
CBL LCP2
NFKB2 TUBB6

KIAA1967 MAP3K3
H2AFX DHX30
PTP4A3 RAB3GAP1
EXOSC7 UBE2Q1
CALR SCARF1
MED7 MED31
HLA-B RUVBL2
SEPHS1 C2ORF18
SMC4 IKBKG
SLC25A21 OAZ1
DLST RUSC2
ZNF101 MDFI
RPS6KA5 RELA
PFKM PFKL
MAP2K7 ARR3
TTR DDR1
FADD CASP8
SOCS3 GHR
UBQLN4 DKK3
FLT3 CBLB
APOD STK24
POLA2 HELB
TGM2 RHOA
IL6R WWP1
MYOC GGTL1
TP53 ELL
ZBTB3 ZMYM2
WBP2 MAGI1
PAX6 DYNLL1
KITLG CLEC11A
MUC1 OSGEP
MYOD1 EZH2
TSC2 YWHAZ
FANCA FANCB
ANP32A KPNA1
LGALS1 GEMIN4
PCBP1 UGP2
FYN PIK3R1
INHBB IGSF1
NBN ATM

TLE2 EMX2
PLA2G1B PLA2G2A
NCK2 UBC
KIT CD9
NKRF REL
HNF4G COPS5
TAL1 EP300
PPIG RNPS1
SUV39H1 PRAM1
TP53 NQO2
APC LRRCC1
GRB2 VPS13A
SYNJ1 EPHB2
RPA1 MCPH1
CD22 POLR2B
ICAM1 ITGAL
PLD2 AQP3
GABARAPL2 ATG16L1
NBN PRKDC
AGBL2 TP63
NOTCH2 SMAD1
FURIN PACS1
CSNK2A2 TGFBR1
CNBP APOBEC3C
HNRNPA1 MRPS27
LRSAM1 UBE2D4
ZNF638 WWP1
MEF2C EP300
PSEN1 ECSIT
EGFR UBASH3B
MTA1 TH1L
ACTL6A EP400
MIP GJA3
PTPN6 LCP2
PIK3R1 SHB
COPS6 C1ORF174
ETHE1 TP53
CDC45 MCM4
CDC45 MCM7
GRAP2 BLNK

HDAC4 MEF2A
FYN CSMD2
SSBP4 IL1F5
LRSAM1 UBE2J1
SHMT2 DEPDC1B
THBS2 THBS3
RAB6A CHML
SNX4 EGFR
USP11 KLHL13
PTPN9 RTN3
NUAK1 S100A8
MAPK7 GOLGB1
ERBB2 MAPK8IP1
APBA3 BCR
CCT5 TBC1D17
ID1 TCF12
BAG6 NDUFA6
DPEP3 DPEP2
TRIP13 COMT
MYBL2 CDC34
CRK ABI1
RELA CDK5RAP3
ATF7 MAPK9
SAP30 SIN3A
MYB UPF2
HNRNPA1 PHYHIP
GRB2 NR1H4
C16ORF70 KIF17
PLEKHA5 AFG3L2
KDM5C MAX
INSR PIK3R3
EIF2S1 EIF2S2
PGR NCOR2
XRCC5 POLR2E
TOP3B CHIC2
LSM6 LSM5
ARRB2 CXCR4
CSNK2A2 CSNK2B
FER CTNNB1
SETD1A HCFC1

ANAPC5 ANAPC2
SRP72 PLEKHA5
ANAPC5 ANAPC4
DCTN2 TSG101
TAF4 TAF10
NR4A1 MYT1L
ETS2 EP300
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NEK9 NEK6
NFKB2 TUBB2B
DDX3X WBP4
EPOR GNB2L1
STAT3 NLK
SERPINB9 UBR1
PRPF40A PSG5
APOA1 PCMT1
TERF1 PRMT1
KPNA3 TGM2
PRPF40A NONO
THRA YWHAH
DDX3X IKBKE
ZNF440 MDFI
RPS20 UBE2O
KIAA0776 UBE2E1
SUMO2 MDC1
DYNLL2 EWSR1
PNRC1 POLR3F
RB1 DAND5
MSH5 ABL1
CCNE2 CDKN1B
EIF1B SET
PLEKHA5 LSM4
SMARCB1 KAT2B
APP DAB2
FURIN SORL1
KIT PTPN11
UBE2D2 RNF43
MED24 PPARA
LILRA3 EWSR1
CTNNB1 PTPN14

PTPRZ1 CSK
FHL2 SMURF2
PGR UBE3A
IGF1 IDE
GNAI3 TRAF6
RNASE4 FST
ATN1 DMPK
BRAF TERF1
COPS6 DIS3L2
SMAD2 TAF3
MRTO4 TRAF6
UBE2M DCUN1D1
TUBA1A VPS4A
RAB3A RAB3IP
PSEN2 PDCD4
GRB2 PANX2
SMAD9 DNAJC7
NAA16 SMURF1
DDIT3 SSX3
IFRD1 HDAC4
HDAC3 PPAR
PCNA TSC22D1
COL1A1 THBS1
LXN PANK2
IKBKE TBKBP1
LIPF PSEN2
CSNK2A1 KANK2
MAP3K7 KIF26A
UBE2E1 RNF14
RFXANK C20ORF24
CBLB RNF11
WHSC1 AR
MPP3 SCN2A
UNC13B STX2
NR2F2 BCL11B
SUFU NCOA3
SLC7A9RBM39
STAT5A EP300
EIF3H CSNK2B
FLOT1 BBS7

ITGAM CD209
BRD1 FEZ2
EFR3A TSC22D1
SIN3B REST
SF3A2 SRRM2
IRF2 NFKB1
VAV1 PAG1
SERPING1 SELE
MYC ARMC6
GRB2 AP2B1
TJP1 CTTN
TBP ABT1
PSTPIP1 MED28
CTNNB1 TRIP10
ZBTB7B SP3
NFKBIL1 MRPS18B
SEPT4 PARK2
PSPH PRMT1
RPL23 RELA
TMED2 GORASP2
SGK1 NEDD4L
RELA BHLHE41
PSMD2 UNC119
SMC3 MAGED1
ITCH SNX18
SH3GL2 SH3GL3
LTBR LTB
MED26 MED20
PCBD1 NIF3L1
PHB CLN3
TRAF2 LZTS2
CDK4 GEMIN4
TCEANC RAD54B
CSTA IVL
TGFB1I1 ITGA4
RBBP7 APPL2
PIK3CAAPPL1
LRSAM1 NINL
BRCA1 ZCCHC8
EGFR PTPN12

PRKD3 BCL6
DDB1 DCAF6
TBP TAF1
COLEC12 EXOC1
FYN CELSR3
SUMO1 C20ORF27
DPYSL4 SH3GL3
EMILIN3 ASH2L
CPNE4 CPNE1
SMAD2 STRAP
ANAPC7 FZR1
ERBB2 SH2B3
APC ARHGEF4
EDN3 KEL
MAGI3 NRCAM
HNRNPA1 ZFR
RAB25 D2HGDH
INADL CRIPT
NCOA2 DDX17
PSMC3 PSMC5
FGG F13B
PPAP2BBCAR1
PMPCA BMPR2
FBP1 ACTN1
TERF1 STAG1
CD81 TRAF6
RAB5A RAB37
TP73 TPM3
GRB2 TRAT1
MGRN1UBE2G2
RBL1 E2F5
WASL SNX9
FAM107A CCDC85B
USF1 EP300
RELA IKBKE
FGG SERPINA5
BMP7 ACVR1
CTSB MLH1
RHOQ CDC42EP1
ELK4 MAPK7

SMAD2 EID2
CRKL MAP4K5
PAX6 PROX1
MAPT PPP5C
CAPN1 ECHS1
MDM4 CASP3
KRTAP9-3 CDK12
EEF1A1 FAS
ITGB1 LYN
IPO5 MEPCE
CACNA1C RYR2
SPECC1L RIPK3
PPM1B IKBKG
SEC31A APC
VCAN FBLN2
MAPRE1 COPS8
SYK ERBB4
FYCO1 GABARAPL1
IGF2 IGFBP2
MLH1 FSCN1
EGFR C4ORF49
IFFO1 XRCC4
H1FO IKBKG
WASL SH3GL3
TP53 MKRN1
PCID2 BRF2
NTN1 UNC5B
PCNA IL17RB
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SRPX2 ADAMTS4
APBB1 SF3A2
APC RBM4B
DYNC1H1 SMAD2
PCBP1 ZNF384
BZW1 BZW2
YWHAQ KLC2
RIPK2 ENO1
PAK1 BAD
GYS1 GYG1
CSNK1G2 COL4A3BP

SSSCA1EIF3L
CDC73 KIAA1549
DAND5 NCK1
CNTROB LYST
TUBB2A PAFAH1B3
EGFR DOK6
NCK1 MINK1
BECN1 PIK3R4
GRAP2 BEND5
RBBP5 DDB1
ESRRA HIF1A
OXA1L MRPL51
MAPK1 RGS19
CHRM2 GNA11
DNMT1 SETD7
NOL3 PNKP
HMGA1PRKCA
RPS27AACVR1
HIRA CABIN1
COL4A1 DCN
MICALL1 PACSIN1
JUND SEPT2
LCK PLCG2
TYK2 IRS1
INPPL1 ABI1
APOA2 PLTP
ATOX1 FKBP4
LGALS3BP TBK1
EBI3 MDFI
CUBN LGALS3
LRRC68 ZMYND19
TNFAIP3 RNF11
SHC1 STAT5A
EPOR STAT5B
HEATR2 PHLDA3
TNKS POT1
RAB11FIP3 ARF4
MEPCE ZFR
MAD2L1BP INSL6
NR2F6 HSBP1L1

HIST1H4I HDAC8
IQGAP1ARF6
TUBB4 KHDRBS1
HAX1 EIF3F
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MAPRE1 KIF2C
PIK3CAATPIF1
AP1G1 RABEP1
HRAS BRAP
EP300 PLAGL1
NEK2 CEP250
PRKCH NUMB
LSM6 USP15
TANK LARS
MRAS RAPGEF6
NDC80 CENPB
SORBS3 RARG
EIF3A PRKAG2
GTF2F2 ESF1
FYN MAP2
PIAS2 MYC
MAPK3 SREBF1
RAB3GAP1 WDR7
PGD IKBKE
LCK PTPN12
PAK4 YWHAQ
APBB1 SF3A1
OMP BEX1
ZFR MKNK1
GFI1B BEGAIN
DAZAP2 LEF1
USO1 C1ORF94
IMPDH2 TNFRSF10D
SYT7 SYNCRIP
STK11 MARK4
DTYMK MEPCE
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WDYHV1 HSD17B14
HTR1A HTR1B

WDR20 FBXW5
CANX SMURF2
SNRNP70 GSK3B
MED10 MED18
PPP1R3D PPP1CC
ARRB2 DDX27
CEP55 POM121
CTNNB1 NCOA2
CDKN2B KIAA1377
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EGFR ATP1B1
IL7R JAK3
GGA1 BACE2
TRA2B RNPS1
SRSF2 SRSF11
CUL3 KLHL12
APP HSPG2
HNRNPD PCBP2
FXR1 CYFIP2
CUL4B DCAF5
HNRNPD PCBP1
FOS DDIT3
ANXA1 TRPM7
TYSND1 JOSD2
KEL EWSR1
EEF2 MLH1
SMAD2 RHOJ
TOP2A BRCA1
PGR CUEDC2
GNA13 MAP3K5
HIST1H2BG DDX56
TBK1 TBKBP1
NUMB SIAH1
MAPK4 GAB1
MRPS14 PINX1
EIF3G ARF6
IRF3 MAVS
RPA2 FANCM
SUPT7LKAT2A

CCDC85B PBXIP1
RPA2 PRKDC
TRIM29MID2
FAM13A RAPGEF2
GPSM1 USHBP1
ANAPC7 ANAPC5
ANAPC7 ANAPC4
RSL1D1RRP1
A2M PAXIP1
HARS GLRA1
NCK1 WNK1
FOS NCOA6
SEC23AMIA3
NBN SUMO2
RPS6KA1 NR4A3
IPO5 RPL7
HSPB1 ILK
BMP5 CHRDL2
RPS6KA1 TSC1
CIRBP PRMT1
PRKACA PTPN7
SF3B1 DYRK1A
PSMD14 PSMD13
DAPK3 PRKCZ
GNB2L1 TSC22D4
PICK1 SACS
MYH10 YWHAE
MYB ASH2L
SYK NFAM1
PAX2 SFRP2
SERPINF2 TGM2
RELL1 RELT
CCDC85B DTNB
SOCS1 IFNGR1
SYK RPS6KA2
CUL4B RFWD2
PTTG1 TP53
AIP EGFR
JAK2 EPOR
ME2 WNK1

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HSPA5 NFKBIA
TCF3 ELK3
SSSCA1RUVBL2
SMAD6 SMURF2
LRG1 FN1
ABCD4 DLEU1
MYB NLK
NCKIPSD BAIAP2
PAK1 ARHGEF2
SGK1 OLA1
APEX1 EP300
HDAC3 CEBPD
MAP4K4 ZRANB1
WASL ITSN1
POLR2C WHSC2
CANX TRPV4
SIX5 EYA3
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RAB3A CHM
AVPR2 GRK5
GABRR1 PRKG1
HDAC3 REPIN1
CACNA1S RIMS2
MAN1A2 FOS
PLK1 RPS27A
PSMB3 IKBKE
FOS ZFP91
SUPT3H SUPT7L
HCFC1 SIN3A
APBB1 THRAP3
APBB1 WBP11
ATG7 GABARAPL1
STATH PROL1
RAD50 DCLRE1C
STAT5B STAP2
NUP214HDAC4
RUNX1T1 WBP11
CD7 PIK3R1
GTF2A1 CNOT1

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HEATR2 MAGED1
SOX8 UTF1
WDR5 TRAF6
RIPK2 HNRNPA3
INSR CBL
IFIT5 RNF32
PSTPIP1 TUBB
CDK9 HNRNPD
CD177 EWSR1
THRB MED25
MAP3K7 CARD11
CNOT1 CNOT8
ISL1 LDB1
PARK2 AIMP2
FAM107A NINL
TPT1 SNX6
TRAF2 GCKR
MAPK8 PRKDC
RHOB TNFAIP1
SMAP2 MCC
CDK9 CKAP5
CFD SERPINF2
BTK EWSR1
KRT36 TWF2
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YWHAG KIAA1598
HSP90AB1 HIF1A
MTPN REL
YWHAQ RGS7
KIF22 IMMT
CHRNA4 YWHAH
ZMYM6 CDK9
DDX3X EIF4A2
ANKRD23 TTN
LRPPRC GSTK1
ARRB1 MAP3K5

PARK2 GRIN2B
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RSRC2 UBQLN4
AES MAPK14
NUAK1 RPS27A
HNF4A NCOA2
FYB ABL1
NPTXR NPTX1
FLNA TLR10
ENAH ROBO4
ID3 PRDM14
LTA4H UBA5
FLT4 GRB2
PRKDC RIPK3
CEP290 PCM1
ATG7 ATG10
UBE2D3 TRIM35
PABPC4 IKBKE
XPO1 CLN3
CDK14 CCNY
ITIH4 DNAJC1
RPA1 HELB
RPN1 HLA-B
NR4A1 VHL
BCR COPB1
SMARCA2 RUVBL1
YWHAG KLC4
VOPP1 PBK
LRP2 GIPC1
FGR NCOA6
NR3C1 MED25
MCC VARS
MCM4 ORC2
MCM4 ORC1
SMAD2 ESF1
RPS20 MAP3K14
MAPT PSEN1
NPM1 RPS27A
ZMYND10 TSC22D4

CNNM3MDFI
NUDT14 RAF1
SYCP2 ACOX1
NCOA2 TXNRD2
RND2 VPS4A
DNAJA1 UQCRC1
DRD5 GNA13
GTF2F2 CEBPG
NPM1 GRB2
FOS PKNOX2
TIFAB TIFA
BPTF KEAP1
CDK2 FZR1
KDM4ARB1
TERF2 ORC6
KPNA3 ARRB1
FNTA HDAC6
PSTPIP1 RPL28
KAT5 KIAA1377
XRCC6 MRE11A
HNRNPR FYN
HIBADH TRIM63
RAD51 BARD1
ARAF TOLLIP
TAC1 ARHGEF40
MCC TARS
GTF2A1 TRIP4
RPGR KIFAP3
G3BP1 HDAC6
VAV2 SRRT
MAP2K6 STAT4
APC PTPN13
HCK DOK1
CCAR1 SMURF2
TERF1 CDC6
PAX6 SMARCA4
MDM2 MTBP
HTR1F CAV1
RAMP3 HSPB3
MCC PYCR2

EFHC2 TUBGCP4
SUMO1 OBSCN
PGR NCOA3
RQCD1 CNOT6
BCL10 XIAP
HOXD4 PBX1
PDS5A STAG1
FOXK2 BAP1
JUP CTNNA1
MAPK1 NCOA1
JUP CTNNB1
MMP3 HAPLN1
TBK1 HSPA1B
RARA SPEN
TRAF2 HINFP
ORC4 MCM10
RB1 HMGA2
C1ORF182 DTNB
SLC38A1 DNPEP
KHDRBS1 PACSIN1
MAPK3 DUSP3
CASK NPHS1
YWHAQ TSC2
PPP1R13B PLEKHA5
ADH5 TP63
MAPK1 SMAD2
FGFR1 FGF7
MAPK1 SMAD1
CCNT1 HTN1
HSP90AB1 MAPK6
RING1 RNF2
CCL16 CCR5
ZRANB2 AKAP17A
KDM1ASIN3A
CCL16 CCR8
TRIP4 ASCC3
FAS ANK3
SUZ12 AEBP2
C6 NCK1
ESR1 NCOA1

EGFR LYN
PGR PIAS3
TAB2 MALT1
LRP6 FZD5
NCL NDN
RHOD BMPR1B
DTX1 DTX3L
NRIP1 RORB
RXRA SMARCA4
IL4R STAT6
LYAR ZHX1
NUDT21 PSMF1
CNTNAP1 KCNA1
ESR1 SMAD2
SBF1 MTMR2
FUS ARHGDI
APBB1 SF3B3
CCT4 TBK1
ARHGEF7 PPM1E
TADA3 ZNF7
EIF1B ANXA2
PDIA3 ADAM17
JUP PKP3
DDB1 IKBKG
APP MDM2
PTPRB CSK
MED4 MED19
MYB HLF
FYN NCKIPSD
GRB2 ZKSCAN3
TCF3 BAZ1B
GSPT1 XIAP
SPTBN4 CELSR3
PCNA RAD18
GRB2 YWHAZ
ESR1 HNF4A
NRIP1 ESR2
NTSR2 NTS
DAND5 SOX8
RAD17 RAD9A

NCK1 RHOA
IRAK1 IL1RAP
BBS4 EPAS1
FAS PTPN13
SUMO4 PA2G4
SUMO1 SYDE2
NKX2-1 HIPK2
NFKBIA PTPN13
CDK1 TGFBR2
MYOD1 HEY1
NFKB2 CHRN3
MAPRE1 PIK3R4
CASP7 XIAP
DST TNIK
IL2RB STAT3
LEPR SNX6
CCS APBA1
EIF3K FTSJ1
PTP4A3 STAT1
RPS9 MAP3K1
GH1 CUL2
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MFNG NOTCH1
GNB1 MAP3K3
USP19 CSE1L
TARBP2 KCNIP3
MAP2K2 YTHDC1
ZRANB1 FBXW11
PAFAH1B2 REXO1
MLH1 AP2B1
FYN SEPN1
WIPF1 ACTC1
SMAD7 MKL2
CEBPB CARM1
SLC38A1 ZHX1
PTN RIT1
SORBS2 YWHAE
PIN1 PRPF8

PRKDC TELO2
NFYB C1QBP
SLC38A1 LNX1
AP2B1 RNPS1
MAPK1 TSC2
MYOD1NCOR2
RELA PDLIM2
EXOSC4 DIS3
CNOT4 UBE2D2
GNB5 GNG13
MBP PRMT1
JAK1 IFNAR2
CEBPB RELA
GAPDHLAMA4
ATF3 IGSF21
IKZF1 HDAC5
SLC24A1 GRB2
PINK1 MAP1LC3B
COX4I1 TH1L
TF SH3BP2
WT1 CREBBP
NEFL MAP2K4
EXOSC2 EXOSC4
KDM6AHIST3H3
HCLS1 QKI
XRCC5 PRIM1
PDIA5 UBQLN4
MEF2D COPS5
ZAP70 DEF6
SMAD2 MYO5A
WNT1 FZD8
TRIP13 LRRC61
EIF2AK2 CASP8
TSC22D1 TIMM50
C14ORF135 CEP63
MLLT3 DOT1L
NCOA2 ESR2
GH1 ERLEC1
FN1 POU3F1
NRIP1 HDAC2

EFTUD2 GOLM1
DHPS ARF6
STAT1 MBD1
CSN1S1 TOLLIP
CSN1S1 SAP130
CCND3 MAF1
PDCD6IP VPS37C
MMP16 LRP1
TP53 NAP1L1
STOM ACCN3
APEX1 DCTN1
FUS ILF3
ARF6 PLS1
CLTC GPRIN1
ERG ETS2
HDAC3 THAP7
IMPDH2 FTSJ1
SH3GL1 DPPA4
RGS3 EFNB2
ARPC2 EFTUD2
PRKACA PDE4D
PSEN1 NOTCH4
HSP90AA1 CSNK2A2
VANGL1 KBTBD7
CALCR GPRASP1
PRKACA EPB49
PRKAR1B PPP1R9A
BCAR3 PSMD2
BAG2 HSPA1B
CCT2 RFW2
SYK RPS6KA1
GJA1 GJA3
VPS26AVPS35
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TRAFD1 TRAF6
RPS20 MPP6
USP19 PARK7
JAK1 ATIC
XPA DDB2
APOE NEFM

EPHA3 CRK
ACTN4 ACTN3
EIF1B G3BP2
HSP90B1 MDM2
INSM1 SORBS1
HIST1H1B SERPINH1
RHOA CNKSR1
TRAF6 TNFRSF11A
MADD WNK1
TCF3 CTNNB1
EGFR CD59
TCP1 RPAP2
TRAF2 AASDHPPT
ITGB2 ILK
GART IKBKG
SNCG GRK6
HRAS SOS2
UBC SRC
SOX9 CREB3L4
STK3 RASSF6
PSEN1 OXCT1
GAB1 MAP3K3
RPS3 MAP3K14
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HNRNPA3 STK24
NRIP1 KAT2B
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HRAS SOS1
A2M GRB2
FYN FLT1
SEC24BFYCO1

AKT1 SMARCC2
FGFR1 GRB2
MSH2 ARF6
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HNRNPA1 RPAP1
COPS2 ING1
FYN PAG1
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MAGEA11 CLUAP1
FGFR1 RPS27A
DUSP6 TEX11
MAP1A RAPGEF4
APOB SEC61A1
DAZAP2 POLI
SFPQ TBK1
MEF2D KAT2B
SCNN1B MAP3K11
WT1 DVL3
EEF1D RPS6KA1
ZBTB45MED31
GFER GPS1
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RPN1 DPF1
HCRT HCRTR1
PLEKHA5 PLEKHA6
RB1 ID2
USP11 WRNIP1
USP11 RANBP9
ARPC2 TRAF6
PTBP1 RAVER2
CDK4 CNOT7
KIT CRK
KIT CRKL
DAND5 SMARCC2
TF MAP3K10
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SGK1 GANAB
TRAF2 UBQLN4
CACNA1E EFHC1
CCNB1 CDK2

KCNK3 YWHAQ
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PML SUMO1
SKIL SVEP1
PLIN3 RAB9A
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TRIM3 UBE2G2
RGS14 PRKACA
SMAD2 INGX
LDB3 MYOZ3
NPM1 BARD1
ACVR1 RHEBL1
TNNT1 NINL
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TRH TRHR
BCL9 PYGO1
HIP1R CLTC
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SNRPA PTBP1
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CASP3 ACIN1
ATR CDC5L
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TBL1X SIAH1
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EPPK1 IKBKG
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TRIM37RHPN1
GRB2 SPEN
IGF1R RPF1
TRAF2 TNFRSF19
MITF UBE2I
REPS2 REPS1
CSNK2A1 PPP2R4
CCT3 ATG16L1

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CALM2 SCN5A
SHBG PLP2
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PRDX1 CLEC4G
SDC3 COL5A1
RTCD1 RPS11
CCNB1 PKMYT1
TMEM66 RIBC2
GNB2L1 SLC27A6
EPB41 CALR
DLGAP1 GRIN2C
BCAR3 CTPS
FYN CKAP5
HSPA1L TRADD
AKT1 RHEBL1
YWHAG KRT82
YY1 SMAD3
ANKRD23 MYPN
MEST SMYD3
FN1 TMPRSS6
RPS4X RUVBL2
NFKB2 TUBGCP2
FGF2 GPC3
CREB1 RNF111
RAD17 RFC4
XPO1 IRF5
ATP1A1 ADD1
TNKS DISC1
MEF2C TFPC2
STAT1 IRF9
MYST2 AR
AIRE PCNA
GEMIN4 PIAS3
FOS FAM50A
DNMT1 RPS27A
NFKB2 GTF3C1

P4HA2 DMWD
POLR2E STAP1
RPL11 IKBKG
HDAC3 DHX30
GHR PTPN9
BCAR3 TRIM28
RAD17 RFC1
RAD17 RFC2
DAND5 RUNX1
PEX19 PEX3
RAB3D CHM
HSPA5 DDX24
INSC PARD3B
TOP2A NR4A1
LPL PTPN4
CHST15RRAGD
INSC PARD3
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RB1 E2F2
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LRP6 ANTXR1
PLK1 ERCC4
RPA1 BRCA2
TUBA1A SIAH1
HSPA1L NFKBIB
HOXA5 FOXA2
CD40 RNF219
RECQL5 MCM7
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SOX9 NR5A1
FXR1 CRMP1
ACVR1 FBXO30
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NCL SREK1
TACC2 KAT2B
PLCG1 MAP1B
CHD1 SAFB

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UBE2C MAD2L1
RXRG CAMK2B
ZNF24 ZSCAN30
RPS3 TRAF1
EPN2 RNF11
TRPC3 ITPR3
SMAD2 SNIP1
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GRAP2 GAB3
EEF1A1PAEP
RB1 EP300
PIK3R1 TPSAB1
TP53 ING1
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SYNGAP1 DLGAP4
PLK1 TANK
SLC25A10 MAGED1
CBLB CD2AP
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HCK TSG101
HIST1H3J CHAF1B
REC8 SMC1A
PLD2 AQP3
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XRCC5 RUNX2
KRT13 APC
BMPR1B STK35
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HNRNPH1 PIN1
SF3B1 BRF2
EEF1A1MAGED2
BIN1 AMPH
IRAK1 PELI1
NCAPG2 NEK6
SH3GL2 ADAM19
MLH3 FAN1
CBL FRS2

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EWSR1 ZDHHC3
LZTR1 TUBGCP4
PZP TGFB2
APEX2 NINL
ATG12 OTUD4
SPTBN1 CPNE4
NGFR FSCN1
ITGB5 TENC1
BAI3 ZNF24
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SGK1 CAMKK2
HIF1A PIAS4
WDR1 TNFRSF10D
EXOSC9 MPP6
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SAP30 PHF12
LRPPRC MAGED1
SF3B4 ITSN1
YWHAH REPS2
SMARCA4 BRWD1
BCAS2 PGR
FCHSD2 C9ORF78
CPNE2 IKBKG
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PRAF2 ARL6IP5
USP2 FASN
ABCC8 KCNJ11
KCNA3 IL16
NEDD4L RNF11
ITGA7 FHL2
BAG6 RPAP1
QTRT1 SH3GL3
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NR1D2 NCOA5
ORC3 CLYBL
TBPL1 C2ORF18
JUP PTPRJ
BAG6 IQCG
LDOC1 FAM107A
TARBP2 IKBKG
NR4A1 ESF1
CHGB TAZ
CARD10 IKBKG
LMNB1 TOR1AIP1
LUC7L3 RRP1
GALR2 GAL
KCNH2 ALG10
VTN VEGFA
SMAD2 UCHL5
TRAF6 IKBKG
SMAD2 ATP6V1D
BRSK2 KBTBD7
SNAP29STX12
ESR1 RPS27A
CTBP2 LCOR
COIL PLEKHG4
FOS CLU
CASQ2 CSNK2A2
PRKAR1A SET
CRMP1 RTN4
STXBP3 GRB2
CDC27 ANAPC1
ANK3 SMAD2
MAPT GSK3B
ITGAV PTK2
ACTN1 XRCC4
ITPR1 HOMER1
APLP1 GSTM4
MET PCBD2
RB1 TFDP1
RGS3 HIPK3
MAPT GSK3A

RB1 TFD2
PSEN1 CDC37
RPS6KA5 PLA2G4A
MLL PAF1
STRN3 STK24
CDK4 SERTAD1
NGFR NTRK2
CHEK1 YWHAG
ZBTB16ANAPC5
FURIN EDA
INS CTSE
HYLS1 C14ORF1
NRAS RASSF5
PIAS4 LEF1
LIN7B ACCN3
HSP90AA1 NFKB1
CRYAB TTN
LRPPRC PHLDA3
MED15 MED29
ADSL USP15
SUMO2 ZNF828
XRCC4 SETMAR
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TRIM27BEGAIN
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EPHA2 PTPN11
C2ORF18 ACP6
MITF GSK3B
SMAD2 OLIG1
RALB EXOC8
LYN SPHK2
NCK1 EIF2S2
USP39 RNMTL1
USP11 OSBPL9
LCK MAPK1
HIST1H3J CBX3
EHMT2 RERE
PDGFRA GRB14
RPS16 RELA

RIT1 ASB4
YWHAQ RGS3
RRAS2 RIN1
HSPA5 YWHAZ
RAB6A GCC2
HAP1 DDX49
CALCOCO2 ZNF101
ESR1 GRB2
IRF7 TBK1
HSPA1B SNCB
KALRN SUMO3
PIGA PIGH
CXCL10 DPP8
TBK1 PPP6R1
CASP1 RPF1
IL8 WASF1
SORBS3 CPSF7
CDKN2B CCDC90B
PSEN2 APH1A
FDX1 CYP11B2
SF3B1 WBP4
DYNLL1 AMOT
FAM107A EFEMP2
DPEP3 MTA3
FABP3 TNNI3K
TRADD CEP110
COL4A1 THBS1
FXR2 C10ORF62
CA2 NONO
PRRC2B ATN1
SMAD2 RHEBL1
PRRC2B ATXN1
UTY NCOA6
CSDA MAP3K14
SMAD4 CITED1
SUMO2 CDCA8
BRD1 FEZ1
HTR1A GPR26
DHPS UBE2H
RFX3 BIN1

SLX4 TERF2IP
TOMM70A HSP90AA1
SOX10 TCF12
LYPLA2 SCMHI
CCNA2 E2F1
EEF1D HLA-B
HLA-B USP14
FCGR2B INPP5D
CCNK DVL3
HNRNPL FGFR3
CHMP1B CHMP1A
AMOT MPP5
CSTF2 SRRM1
ACVR1 SMAD5
EPB42 CD47
DAND5 NFYC
PARK2 UBASH3B
ESR1 SRA1
YWHAG INPP5E
PSAP BACE1
CHTF8 DSCC1
BRPF1 MEAF6
NMI HHLA3
PER3 CRY2
TGFB1 WDR61
GDF9 FOXP1
CSE1L KPNB1
GRAP2 CCNDBP1
BAI2 ARHGAP1
PTPRE MAPK3
UBE2D3 XIAP
RNF144B UBE2T
ANK1 OBSCN
HSP90AA1 RPS6
TGFB2 VASN
EPB41L2 ADORA1
TRDM1 SETDB1
GRB2 RHOU
PDCD6 ANXA7
EZR TMEM8B

PMS1 PSD2
MDM4 CDKN2A
TPM1 TMOD2
CDC7 MCM7
MATR3 STK24
CDC7 MCM5
NR2F1 RXRA
ITGAV CALR
SMAD6 SMAD4
NRIP1 TNFRSF14
CDC7 MCM4
RASA1 GRLF1
MAP3K10 MAPK8IP2
TOM1 ZFYVE16
FNIP1 MAP1LC3C
NUCB1 TOLLIP
PTPRJ ALK
PRKAR1A SPTBN1
HIP1 NECAP1
FAM40A FAM40B
SLC25A6 MAP3K3
MDM2 HIST2H2BE
TBP GTF2A1L
APOA1 APOF
EEF1D ANKRD12
PHLPP2VAT1
PLSCR1SPRY2
CAV1 RADIL
RUNX1 TAZ
RALGDS PDK1
KNG1 ELANE
ACVR1B SNX1
PRKCD HABP4
SMARCB1 SMARCE1
NEDD8 USP13
RAF1 BCL2L1
PRMT1 NCOA3
ACP5 C2ORF18
GAB1 INPP5D
SMAD6 RNF111

USP53 RAD50
F5 CSNK2A1
COX4I1 MCL1
RPL22 MAP3K14
ARAF CSNK2B
PRKAB2 GYS1
FGFR1 GRB14
TFE3 DHX9
MFN2 MARCH5
ARHGDIA HNRNPAB
GAB1 FRS2
KIAA1967 KBTBD7
RAC3 CACYBP
MITF YWHAZ
BCL2 MOAP1
RPS27A TRIM5
CSN1S1 PPM1J
PIAS1 ESR1
APEX1 HLA-B
KDR GNAQ
RAP2A FKBP2
BAG6 RNF126
BAG6 EFEMP2
TRPM7 PLCB1
HIRA NFU1
HNF1A HNF4A
RPS6KB1 PPP1R9B
INGX SMURF1
TNFSF11 MAPK3
GRB2 SGIP1
SF3A2 PRPF19
SEPT2 SEPT9
RPS27A IRF7
COL4A2 ANTXR2
SLX4 GLTSCR2
FGG ICAM1
RGS4 GNAQ
ITGB2 ITGAD
CASP7 CDC42
DYNLT3 TESC

PNN ZCCHC17
RUNX1T1 KPNB1
ALDOAMLH1
NCK2 CD3E
SYT7 NRXN1
VCAN FBLN1
NR2F6 RXRA
IFIT1 TMEM173
ERBB3 SYK
USP33 DDX56
RPS27ADVL3
PIK3R1 RPS27A
UBE2E1 HDAC6
GRM1 HOMER1
NEB ABI1
TMBIM4 SUN2
NLGN1 DLG3
GIPC1 DRD2
AKAP8 DDX5
PPP2R1A SGOL2
PPP1CB SH2D4A
PIK3R1 GRB2
SMAD2 SMARCC2
IQGAP1 CALM2
CDK4 DBNL
NFKB2 EEF1A2
TAF7 ZSCAN1
MYH10 IKBKG
RBCK1 IKBKG
TBX3 HDAC1
ICAM3 ZBTB16
PLSCR1 CRK
RGS20 NSF
MLH1 PPP2R2A
EFS BCAR1
HIF1A EGLN1
MSH2 BLM
ERBB3 ZAP70
RPF1 TTYH3
KIF5B SMAD2

TSLP IKBKG
HNF4A SMAD2
APBB1 SF1
STAT3 EPHA5
UBE2L3 SMURF2
RB1 LIN54
PLRG1 SF3A2
DNM1 PIN4
NEBL ACTB
MXD1 RPS6KA1
FBL H3F3B
LDB1 SSBP4
SGTB RAI2
NCAN HMGB1
APC KRT23
EIF3E HAP1
MYO7ACDH23
MAP3K8 CALM2
PLRG1 ZSCAN1
TOP1 TAL1
PSAP MAFF
GTF2F2 RNF168
NEDD8 COPS5
UNC119 FXYD6
MITF SUMO1
PRMT2 E2F1
HNF4A NCOA1
MUSK SYNE1
COTL1 IKBKE
EZR FAS
LSP1 BMPR2
SMAD7 LEF1
SMAD2 SEMA6A
HDAC4 MEGF10
COPS6 SHKBP1
INSR ENPP1
SHBG AK2
LATS1 STK4
ZRANB1 HECTD1
CDK5 CDK5R2

PTP4A3 UBE3C
CBS C17ORF28
SYNCRIP SYT9
SRSF2 CDC5L
SLC25A5 TRADD
MED7 IKBKG
RBBP5 MLL3
MKL2 KDM3A
POLR2C MED28
HMBS RANBP9
GGA3 VPS18
RB1 SP3
SNAP23 VAMP8
SNAP23 TLK1
UBE2V2 C7ORF30
PSMB5 SEC14L3
SH2D2A MAP3K2
HNRNPA1 TNPO1
TACC2 CREBBP
BAG3 HSPB8
HIVEP2 FBXW11
PSMB5 TAP1
CASP3 DBNL
HAND1 TCF12
DRAP1 FEZ1
FYN SPHK1
DDX6 DCP1A
DRD3 GRB2
PPARG NCOA4
SMAD2 TSPYL2
HNRNPL TOPORS
MEN1 CHEK1
JAK1 PTPN6
HLA-B PREP
EXOSC6 MPP6
SRC SMAD3
PSEN1 PKP4
VIM SPTAN1
PRNP BAG6
HNRNPA1 KHSRP

FAM175B OPTN
SENP1 RUVBL2
SMAD4 DAXX
POU1F1NR1I3
FUS GPRIN1
AHCYL2 MAP3K5
S100B NDRG1
CCNG1 PPP2R4
FBXW7 KIAA1875
AP2M1 CLEC4M
ZRANB1 FAM40B
STAT1 SYK
MICALCL RAB1B
ZBTB8B LMO3
KBTBD7 KIAA1377
TAF10 TAF9
TGFB1I1 FKBP1A
PSMD3 PSMD7
MYO1CFBL
KRT1 DSPP
ASB13 HIF1AN
XPO1 ORC1
LCK UBE3A
CCT4 PPP2CB
CBX5 L3MBTL1
MID1 IGBP1
SEC13 RAB11A
DEDD HOXD4
PURA PURB
CALM2 GRB7
HRAS RABAC1
ZG16B UBQLN4
PSEN1 CDK5
CD40 SUMO1
TIMP3 ADAM17
MED1 MED4
SKIL SPARCL1
COPS8 COPS7B
DAND5 E2F1
WBP4 HTATSF1

CXCL11 DPP4
NRP1 FGFR1
SMC4 PHLDA3
RPS27AMAP4K1
NAGA GNGT1
GRB2 ERBB2IP
CDK20 GTF2IRD1
TCP1 GPN1
SEMA6A EVL
CSNK1A1 PPP1R14A
GFER COPS2
MAG MAP1B
SNCA PTK2B
BMI1 RNF2
DDX20 PRKAB1
GLI2 CREB1
ZBTB43MCM10
APC EIF4G1
GH1 OTUB1
UBE2H BRAP
ZSCAN30 ZSCAN16
GATA1 RAI1
ABL1 FOXF2
ACTN1 PKD1
PRKACA GABRB3
ARRB1 CYTH2
RASA1 SYK
PRPF40A PRKAR1A
RASA1 ZAP70
PLEKHA5 KIF3A
EPN2 GRB2
CAPN1 NFE2L1
RIPK1 MAP3K14
SSFA2 WNK1
FYCO1 MAP1LC3C
RGS4 COPB1
COBRA1 PACSIN1
MAPK1 TGIF1
TRIM37TANK
PAPOLA HDAC10

TP53 ING5
CCT4 ACTA2
SMARCA4 SIN3A
ZAP70 SLA2
UBE2WRNF115
PDPK1 CARD11
RPTOR MAPKAP1
EMD CNN3
NPM1 HIST2H2BE
KRTAP4-12 ADAMTSL4
SKIL GLUL
H2AFX ALG9
TXK SH2D2A
DFFA GZMB
HSPA4 RCOR1
MEPCE HEXIM2
ESR1 MKNK2
CKMT2 PSMD4
NR4A1 RPS6KA6
LATS1 LIMK1
PLSCR1ZNF764
ARMC6 C20ORF24
UTRN PTPN12
PCBD1 LN1
EFCAB6 SIN3A
NCK1 SUV39H2
ARHGAP5 PTPN18
ZNRF1 UBE2W
LN1 CEP72
NR4A1 YWHAZ
PIK3R2 HCK
VIM PKP1
PLD1 PEA15
PCP4 CALM2
CD63 KIT
GRIA1 GRIA4
SERPINB9 PLEKHM1
TP53 SYVN1
CLNS1A SNRPE
SLC25A21 SMAD3

TAF10 TAF12
CASP3 PRKCZ
ZBTB16HDAC9
RTCD1 ARF6
TRPC3 ITPR1
GRB2 FAM110A
VTI1A STX8
HNRNPU RELB
MAPK1 BCL6
YAP1 RUNX2
TP53 CSE1L
NDC80 AURKB
TRAF2 IKBKE
LYAR PRPF19
CLNS1A SNRPD1
AKT1 PI4K2B
NCL MDM2
ERCC1 UBL7
CLNS1A SNRPD2
RAB5A ANKFY1
CDC25C BRSK2
DNAJC6 CLTC
ADRA2C YWHAZ
CNDP1 CNDP2
APC YWHAE
MAPK1 IFI35
AP2A2 AP1S1
SERPINA3 CMA1
NR3C1 RELA
HOXC11 HDAC5
PDIA3 SLC12A3
FAS EEF1A1
BRCA1 UBE2L3
PIK3CA YWHAH
EIF3J SIAH1
NPY NPY5R
CBFA2T3 HDAC8
YWHAG SMCR7L
CLNS1A SNRPD3
CSTF2 CPSF1

JUP BTRC
ABL1 ABR
IKBKB PPM1B
DNASE1 ACTA2
ADSS ATG10
AXIN1 RUNX2
FYN RPL10
TERF1 SH3GL3
SIN3B IKZF1
FOS WDR65
UBE2M CPNE2
NR3C1 NR3C2
GABARAP RABGAP1
COLEC11 BCLAF1
USP32 ERP44
NOP2 PTPRJ
ZNF536 WNK1
TRA2B SF3A2
HLA-B STRAP
GFI1B LZTS2
UBE2H RNF34
H2AFX PPP2R4
RALB RGL4
GHR DUSP7
TOP3A TINF2
XPO1 ANP32A
LIMS1 PARVA
BMX PTPN21
RAD51 C17ORF28
STAT3 DAXX
PFKM NOS1
SDCCAG3 WBP5
MAGEA11 NSUN4
SLC16A8 DNAJB9
JARID2 MTF2
JUP PTPN14
CTBP2 EHMT2
PRKAR2A AKAP14
SRC WWOX
SRF NKX2-5

VIM SH3YL1
LTF ITLN1
FAM107A USHBP1
IGBP1 MID2
SIK1 YWHAZ
DCC APPL1
HK2 UBQLN1
DAND5 ZBTB16
DAND5 PRKCZ
TRAF5 TNFRSF4
TRIP10 AKAP9
SRF CRIP2
JAK1 IL2RG
CDK14 CCND3
UCHL1 CDKN1B
ANXA6 TJP1
TGOLN2 PRKD2
ITPKA CAMK2A
DENR COBRA1
NPHS2 CD2AP
LDB1 SSBP3
ANKZF1 NRSN2
CTSG SELPLG
SMAD4 TM9SF2
PRKDC ATG4C
DAND5 SPTAN1
STK11 SNRK
STAMPB STAM
RHOA PRKCZ
MAP3K14 NFKB2
MRE11A PRKDC
CDC25A YWHAZ
SMAD2 HIPK2
RPAP2 MED4
PHYHIP PNPLA2
UBC RYBP
POLR2C SMARCC2
ZBTB8B LNX1
TP53 MAP1B
BRAF MAP2K2

EGFR ICAM1
DVL2 PRKCG
ZNF207 USP7
NUP155 OTUD7B
NBN EP300
FAM107A USP15
MAPK8IP2 MAP3K11
GRB2 RBM4B
PSMD6 USP20
ITGB3BP C4ORF27
AXL PTPN11
CAT ABL2
PIK3R1 MYLK
MAP3K7 TRAF2
ID2 UNC119
FTSJ3 DDX56
VAMP7 AP3M1
EIF2C3 DICER1
YWHAQ SUV420H1
KIAA1217 TEX11
NMI LSM4
PPARA EP300
MYO1CGIPC1
ANP32A MAP1B
HLA-B SDS
HLA-E SEC14L3
CIITA SMARCA4
CHD1L WNK1
TOMM20 KIAA1377
GAPDH CAMK4
CTBP2 ZNF512B
C19ORF57 CENPQ
POLR2C POLR2G
TCERG1 DNAJB9
HBP1 ZNF182
RET PTPN11
ARID1B SMARCC1
DOK2 HCK
CETN2 USP49
KNG1 CTSG

CRB1 TSC22D1
CTNNB1 SMAD2
PTPRJ PKP4
SIN3A SUDS3
TRAF2 SETD5
CDKN1A MDM2
EP300 ING4
EIF1B PSMD13
APC KIF15
DNAJA1 OSGEP
DCUN1D1 RNF11
HAAO GAD1
JAK2 IL4R
CFL1 MYCBP
SUPT5H GTF3C1
FYN KDR
INSIG1 VCP
PML SMAD3
LRPPRC TRAF6
OAT MCC
SERPINF1 MLH1
SLC26A3 SLC9A3R2
USO1 BET1L
DCX AP1M1
PRDX2 RNF32
TSC2 PPP2CA
RPP38 BVES
BMP7 BMPR1A
HSPA1B DNAJB11
PTTG1 CDH1
NRF1 MAFF
PTPRS TUBB2A
RAD23B UCHL5
GRM8 FLNA
TEK PTPRJ
MBP MELK
LSM11 ZNF473
RXRA MAPK7
POLR1C USP11
HAP1 TSPYL1

HDAC5 CAMK2A
TF HFE
STK11 TNIP2
ZNF593 RAB1A
ITPR1 TRPC5
MPP3 HAP1
USP11 ATG10
ANKRD44 PPP6R1
G3BP1 UIMC1
SLC9A3R2 TBC1D10A
MCRS1 MED4
PGR XRCC6
PRC1 CCDC85B
UBC NPLOC4
STK3 CNKSR1
RPS27A GPR158
CASP3 BCAP31
FYN FLOT2
ACVR2A ACVRL1
SMAD2 PIAS3
HAP1 ZNF691
ATR RAD9A
PPM1B VIL1
UBXN2A VCPIP1
NR3C1 ONECUT1
CTNNA1 TLN1
BCL2L1 BCL2L14
OGT DAND5
TDP2 CD40
CPS1 YWHAZ
EIF4G1 EIF4A2
CD99 TRIP13
PPP1CCATM
EPPK1 TRAF6
PGR SRC
EIF4B EIF3B
KIAA1549 MBD5
GPRASP2 BTRC
THBS1 MYO5A
MEF2C USP25

CCNT1 PGC
FRYL BAK1
EEF1E1 EIF1B
HOXA13 SMAD2
TRAF2 SPHK1
EEF1A1BTBD2
DLG4 SEMA4G
HOXA13 SMAD1
ZBTB16WDR33
TUBA4A MAGED1
JAK1 OSMR
NOP2 MCRS1
GNB2L1 PDE4D
TRAF2 TRAIIP
MAPK8 SH2D3A
PRKCI RAB2A
SMAD9 PABPC4
BRCA1 CSNK2A1
FYN PTK2B
INGX SMURF2
PCNT DPEP3
RNF2 PCGF6
MAP3K11 MAPK8IP1
HSPA1L IKBKG
CAPN1 DPAGT1
SOS2 MYO6
PPOX COPS5
HRAS RALGDS
KCNA2 KCNA3
NANOS3 EXOC6
ANP32C APEX1
USP7 SCML2
ARID1A GATA1
LRRN1 RBBP6
MYBL2 CDKN1C
HDAC3 TBL1XR1
CANX LRP1
IPO4 FANCD2
RET MAPK1
BDKRB1 MEP1A

TGFBR1 STK35
CD3E NCL
SSSCA1DSG1
IDH3A IKBKG
UBE2E1 RNF26
LIMS1 ACP6
AGT EWSR1
ZSCAN1 CDC5L
ESR1 LGALS12
AHCY TRAF6
USP13 TRIM63
CUL1 NR1D2
LNX1 TIFA
NFKB1 BRMS1
SMAD2 NCOA3
CYR61 ITGAV
SDPR PRKCA
PSAP GRB2
SERTAD2 CREBBP
CEBPB FOXO1
DMAP1 RUVBL2
CNOT4 UBE2D4
NFKB2 PSMD13
PTPN1 CAV1
TAF10 SNAPC4
TRAF6 HYOU1
UBE2C DTX1
KLF7 SUMO1
PRKCA EEF1D
PEBP1 FTSJ1
HLA-C HLA-A
H3F3B EHMT2
HOXC11 TBX21
CDH1 TNS3
CCNT1 AFF1
FCHSD2 SH3BGR
PLCG1 SHANK2
SLC9A3R2 WWTR1
HLA-B DLAT
CSF1R YES1

COIL LNX1
RPA1 CHD1L
BMPR1B SQSTM1
CSF1R LYN
NUP98 HDAC1
PRKCA RICTOR
ESCO2 EHMT2
MARK3 TCEA2
MLLT3 AFF1
HIP1 CLTB
CSNK2A2 WAS
TIFA TRAF6
HIP1 CLTA
PUM1 SMAD1
EIF5 EIF4G2
COL1A1 DDR2
GSN PXN
GABARAP ULK2
AXIN1 PPP2R5C
TP53 TSG101
POLA2 DDX24
ANP32A MEPCE
NCK1 TUBA1A
BIK BCL2L1
MXD3 SMC3
GAB1 PTPN18
KPNA1 KPNB1
MT2A PAK2
RB1 PML
CCNDBP1 COPS5
RELA SIRT1
CD247 SLA
KIF5A ITSN1
CYLD CEP192
IL8 CSNK2A1
NFE2L2 EIF2AK3
NCOA2 ANKRD11
HAP1 CCDC113
BCL2L11 BCL2L1
MYC MAP7D1

SRC TULP4
HYI TEX11
HNRNPA3 SF3A2
HDAC1 RBBP7
BCL2L11 BAX
SHC1 CRK
CAMK2G PEA15
EIF3F EIF4G2
SHC1 CRKL
ZRANB2 EP300
ARG1 ARG2
COIL TSPYL2
MAPK1 ARRB1
PTK2B DLG3
TMEM104 USP36
LMO4 MTA1
BCL2L11 MCL1
TP53 ARID3A
ATM FANCI
ARPC3 BAG6
PRKCZ NELL2
ZSCAN30 ZNF232
MAPK10 HNRNPK
EPB41 DRD3
EIF3H USP3
MAP3K2 IKBKG
PRKACA CACNB2
TGFB1 CDC20
FGFR1 CRK
CFL1 YWHAG
CFL1 ATXN1
RFC1 MRE11A
VIM SDCCAG3
DGKZ PARD6A
SUZ12 SIRT1
BCAR3 PPP2R1A
DAB2 AP2M1
EXOSC5 LIPG
NFKB2 MYBBP1A
SMAD3 PCDH1

TP53 PRMT1
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LGALS3 CSNK1A1
KIAA0226 UVRAG
ATF2 CSNK2A2
SLC22A1 POU2AF1
CACNA1D STX1A
PRNP IER3
UBE2K TRIM35
CAPZA1 TRAF6
MED21 MED29
IL1RN IL1R1
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GSK3B SF3A1
IARS NFKB2
HTR2A MRPL28
SFPQ RPS27A
DEGS1 SHMT2
RASA1 KDR
TGFB1I1 VCL
ZIC2 RPS27A
TRIM46UBE2Z
PPP2R1A SIKE1
FANCC FANCF
SUPT3H MED12
PIK3R1 WBP11
CHD3 SERBP1
STXBP3 SNRPD3
SNAP23FXR2
FXR2 PSME3
GADD45GIP1 IKBKG
MET HGF
MARCKS NMT1
UBC DHX30
STXBP3 SNRPD2
PRNP CNP
H2AFX FANCD2
RARA POU2F1
NUP43 NUP85
STIP1 HSPA14

ANXA4 GP2
SIP1 DHX9
KPNA5 BRMS1
CDC25B CSNK2B
WIP1 ESR2
HDAC3 ETV6
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PRMT1 CTDP1
EGFR CAMLG
SMAD7 HDAC5
CDK2 POLL
IRF8 RELA
RARA HNRNPL
TGFB1I1 CCNA1
EEF1A1 CRCT1
TADA3 RXRA
MAPK1 RPS6KA1
ESR1 RPS6KA1
ATF7IP DISC1
MAP4K4 GRIP2
ADAM10 AXL
HSPA4 HCFC1
ANKRD28 ZNF512B
TFCP2 HDAC1
CACHD1 ZMIZ1
HTT MED31
GRB2 CLYBL
DAPK1 STX1A
PPP5C CDC16
FN1 NT5E
SPTBN2 ACTB
ESR1 SAFB
VAV1 EZH2
PTK2B EWSR1
LPXN IKBKG
NCOR1 ATXN1L
HNRNPA1 MRPL37
SMAD4 SMAD5
HDAC3 HNF4A
IRS4 IGF1R

CACNB3 CACNA1C
MED21 MED9
PDCD6 FAS
RAB6A ERC1
TRAF3IP1 WAC
SYT1 IRF3
IPO5 NUP98
HIST1H4I THAP7
NOL4 MAGEA11
CETN2 USP44
ESR1 TRRAP
MAP3K11 MAPK8IP3
H3F3B KAT2B
HNRNPA1 HNRNPL
PLXNB1 PLCG2
MCM5 ORC1
MCM5 ORC2
ACTB RUVBL2
IRF5 TRIM15
CUL4B DCAF17
PSEN1 ST13
DDB1 DCAF15
KIT KITLG
FBXW11 ARIH1
ACP1 CTNNB1
YWHAG DCP1A
MAGEA11 OTUB2
HNRNPUL1 POLR1E
ERCC3 ZSCAN1
SERPING1 SELP
CLASP2 LXN
EFNB1 PICK1
UBE2I DAXX
GNB5 RGS9
USP11 TCEAL1
BIRC5 BIRC2
TP53 PADI4
YWHAQ EPB41L1
CBX6 USP7
PPP6R3 USP36

GABBR2 NSF
CD2BP2 SNRPA
BIRC5 BIRC3
E2F1 CUL1
PLXNB1 SEMA4D
ESR1 NR0B2
MYH7 TEAD4
GABARAP ATG4B
NCK1 LRRC3
ZZEF1 SKIL
CD40 TRAF2
RORA EP300
SDC3 CSK
NFKBIA HDAC5
PRPF40A SF1
TBP SET
IGF1R DOK4
CCL4 CCR3
RND3 ARHGAP5
USP7 ATG10
NKX2-2OLIG2
CCL4 CCR5
SIN3B HDAC1
IL1RL1 TRAF6
CCL4 CCR8
CDK2 RBM4
OTUB1 ATG5
S100A4 BTC
ALB GRB2
MF12 DERL2
CDKN3 MS4A3
PAX3 PSMD4
AGFG1 PKIA
SIRPA TRIM2
H2AFJ RCC1
BCAR3 TARS
DRD4 KCNJ3
ORC3 DBF4
NCOR1 COPS2
CCND1 STAT3

DRD4 KCNJ5
POLR2C EEF1A1
HAX1 CTTN
ARAF YWHAZ
GH1 EIF3I
FYB SKAP1
NKX2-1PAX8
CBR1 TNIK
RPL27AMAP3K14
AGTR1 ADRBK2
FGF2 RPS6KA3
COL1A1 DCN
GIPC1 SSR4
INSR GRB7
SETDB1 PTPRS
NUMA1PLCB1
PPP1CBSMARCB1
CD40LG POLR2B
MSH3 MSH2
CDKN1B TRAF2
INSR GRB14
CRKL PLEKHA1
BCL10 MALT1
FMNL1 RAC1
BAG6 PPP4C
ATP5D PSMD6
RPA1 TP53BP1
CBX4 SKIL
ADCY2 ADCY1
AMFR UBE2D4
MCC SYMPK
CD8A SRSF1
NKX2-2HDAC1
INSIG1 RPS27A
CITED2LHX3
SMAD7 WWP1
ATXN2 SH3GL3
ATXN2 SH3GL2
PTP4A3DNAJA1
SNAI1 HDAC1

SMAD4 TGFBRAP1
VAMP2 STX4
RGS16 GNAO1
PAEP IGSF21
RPF1 N4BP2
DLG3 CAMK2A
SRC GRLF1
APBB1 ENAH
BCL2L11 MAPK10
CAD TAB2
KCNH2 RHOH
SLC25A10 PRKAB1
PC MDH2
MED31 MED19
PIK3R1 PTK2
DCUN1D1 TRIM39
RELA DNAJA3
GSK3A HSF1
RXRA NR1H3
UBE2L6 TOPORS
MEGF10 ZNFX1
SIP1 RNPS1
AKT2 APPL1
HGS GGA3
NMI EMILIN1
HTT GIT1
PLAT CALR
MEF2A MEF2D
TP53 PLAGL1
SNCA RNF10
CXCL12 DPP8
TOPORS UBE2D4
PGR HSP90AA1
SLC9A3R1 KCNJ1
TNFSF12 TNFRSF25
BRCA1 TUBA4A
RPF1 HNRNPU
FBXW11 ATG4B
IPO11 PHLDA3
SPTBN2 APC

SLC3A2SLC7A8
TRIM27GTF2F1
CTBP2 RAI2
CAPZA1 PRKAB1
SRSF6 SRRM1
PFN1 YWHAZ
PVRL4 PICK1
BRCA1 MNAT1
CD5 CD247
MPP3 C4ORF14
IGF2 TF
KDM1ACTBP1
MDM2 SEC63
RAF1 PHKA2
SUMO2 SRRT
TOPORS UBE2J1
PTP4A3 LRPPRC
PARP1 SUMO2
STAT5A HDAC1
MYH10 PRKAB1
DYNLT1 DOC2A
HDAC10 NCOR2
ATP5J2 HAP1
CCNC MED28
GH1 PSMB3
GATA2 STAT3
CCT6A CTTNBP2
KHDRBS3 PRMT1
TBR1 TSPYL2
HTT SH3GLB1
APBA1 DLG1
PRKACA GRIA1
ATR HDAC1
VSTM2L WIPF3
PARP1 PRKAB1
PIAS1 AR
TJP3 TJP1
NFKBIA HSPA1B
SUMO2 DAXX
EIF3A EIF3K

YWHAG KCNK9
NFKB1 HMGB2
HDAC4 LCOR
NCK1 PRX
APOB CALCR
SMAD4 RAB2B
SUMO1 PKP1
APOE CTSB
NUCKS1 WNK1
SNTG2 DTNA
BLOC1S3 BLOC1S2
WWP2 CPSF6
NPHS1 CD2AP
NUP155 CDK4
TCEA1 GTF2F1
ITGB5 P2RY2
MLL RBBP5
SKIL GOLGB1
FILIP1L PLEKHA5
UBE2D1 RNF111
TYRO3 IKBKG
AMOT NIN
RPF1 HNRNPUL1
GDF9 CCDC53
DRD2 CADPS2
ENO2 NAT9
ANKRD28 PPP6R3
NES CDK5
SAAL1 PHLDA3
PPM1G H2AFX
RNF10 UBE2E2
CSNK2A2 PTEN
MAP3K7 HSPA1B
PPP1CAPP1R1B
HAP1 C15ORF29
CCT4 MAP3K3
JAK2 PTPRJ
ZFYVE9 RHO
SHC1 MLLT4
PRKCH MED4

RUNX1 FOXP3
HSPA1L TAB1
KPNA4 CSE1L
CCDC85B MCRS1
DAND5 SFPQ
PRPF40A SRPK2
BCL2 FKBP8
AZIN1 OAZ2
PTTG1 XRCC6
EDF1 ATF1
CBX5 ARL5A
CFL1 SSH1
TRAF6 COPG
HIST2H2BE DNMT3L
ATR CDC6
ABL1 RFX1
SAP30 YY1
CREB3L2 ZNF182
TRIM23 FLAD1
SF3A2 ACIN1
FKBP6 GAPDH
RET DOK4
EZH2 WDR61
ABL1 PTPN1
NUP155 TRAF6
MYOD1 RBL2
GDF9 MOBKL3
CPE CHD3
TGFB1I1 EP300
ARID1A RPF1
ACVR1B ACVR2B
RBBP5 CDC73
EIF2S1 P4HB
TRAF6 IER3IP1
CD5 RASA1
PHIP STMN4
PLSCR1 C12ORF12
NPY NPY1R
DHX9 SF3A2
AKT1 EP300

ABL1 CBL
PKN1 AKAP9
MET GAB1
PRPF40A CCT2
CSNK2A1 BDP1
GLRB GPHN
VHL VMA21
EPB41 TJP2
F9 LRP1
CIAO1 ACACA
GABARAP RPF1
EEF1A2RIPK3
TIMP1 SUMO2
DVL1 CTNNB1
NOS1 DYNLL1
TRAF1 TNFRSF18
PCBD1 EHMT1
SMAD9 PAPP
PSMB1 ILK
TSEN54TSEN15
SHBG ZC3H12A
RBL1 DNPEP
CDK5RAP2 ABCA2
CYP2C8 LONP1
DMRTB1 NIF3L1
GABRR1 SQSTM1
FAS DAXX
IPO5 MAP1LC3B
NR2F1 PHB2
NFYB CIITA
ALPI EIF4A2
STX5 NSFL1C
KDM1AZNF217
LRP6 MESDC1
ORC3 PIK3R1
SEPT6 SEPT9
TXN PRDX1
ESR1 REXO4
TRIP4 ASCC2
STK19 SF3B4

SEMA4C NCDN
RANBP2 HDAC4
LCK CD38
HAND2 HEY2
TP53 RPS27A
AR CDK9
HOXB3 CREBBP
INSL6 POLR3F
RFXANK HNRNPM
CDC25C YWHAH
MED9 MED31
KBTBD6 OSBPL9
MAP3K7 MAPK8IP1
PLK1 TSC1
LYN SPHK1
TRAF2 SPG21
GATA4 NR5A1
GNA15 GRM2
ABL1 YWHAG
VDAC1 DCD
PLCG2 GAB1
CEP110 CDK2
DYNLL1 TXNDC17
TP53 RPS27A
RARG RXRA
PTPRB TEK
SVIP NPLOC4
CAD CASP3
OLFM2 RAB11B
GRB2 GRIP2
TLE3 CUL4B
HSF1 STRAP
AGRN GF11B
TROAP TRO
INADL NRXN2
CDK2 TAGLN2
WEE1 CRK
VAV1 LCP2
OBSCN MYH2
GARS CELSR2

CASP3 MAPK8IP3
TCERG1 SRSF1
DEPDC1B BRE
GRB2 PHACTR1
JAK2 MST1R
GAS7 APBB1IP
MED27 MED19
RAB9A RABEPK
JAK2 IL23R
EGFR PLD2
MAPK3 MAP2K2
NECAB3 IKBKG
RNASEH2A USP24
ERBB2 CSK
EEF1A2TRAF6
TGFBR1 TRAP1
PRKCH PARD6A
PLD2 EGFR
PPP1CANOC2L
SMG7 FGFR3
ACTB CFL2
MAP3K10 NEUROD1
RNF219BRF2
TBP CTBP1
TIMP3 MMP14
SLC2A4AKT2
TP53 ZMIZ1
MLH1 TPRG1L
MYBPC1 TTN
SEPT7 SEPT11
ARID4A ARID4B
LCK CTLA4
TARDBP NSFL1C
S100A4 SEPT2
TP53 BAG1
PARK2 HEXDC
WAS WIPF2
MED31 EPN1
LATS1 PTK2
DHPS SRRM2

ACTB RUVBL1
LMNA FLNA
TGFB1 EIF3I
NR3C2 PIAS3
NFE2L2COPS7A
PRLR YWHAZ
C11ORF49 UBQLN4
THRB EIF3I
TP53 VRK1
CEBPB ZNF225
JAK2 IFNGR1
GADD45B CDKN1A
PRDM1 HDAC2
DSCAML1 PLCL2
DMD CAPS
POLR2F MED10
PDE6D C9ORF25
PSEN1 NOTCH2
TRAF6 IRAK3
SFPQ ZMYM2
PRKCA TYK2
FYN CTNNB1
CDSN UBQLN4
PGR NCOA1
PCNA FANCL
PPP2CAPP2R3A
PRMT1 TRAF6
EGFR SLC5A1
MED9 MED16
ASCC2 TBC1D17
ADRB2 USP33
TMED10 PSEN1
LSM6 SART3
XPO1 HNF4A
UBE2I PHF19
DGKE SET
MATR3 CDK9
GATA3 BMI1
PLA2G16 UBQLN1
APC LASS2

ZXDA ZXDC
IARS MAP3K14
APBB1 YLPM1
CDK17 TDRD7
GLS PARD6A
PSMC3 VHL
USP4 LSM2
USP46 YWHAH
GLUL TDG
RASAL1 RAPGEF2
USP12 SDF4
TP53 TEP1
TRAF1 TRADD
ACTA2 MINK1
NFKB1 STAT6
CSN3 EIF3E
ATP5B SUMO4
CDK5 PAK1
EPB41 MYH9
STAMBP SMURF2
VCAN FBN1
FCER1A VAV1
SUFU BTRC
ATF7IP HEYL
IGF1 IGFBP3
PML UBE2I
IRAK1 DNAJC14
EPB41 MYH10
SLC1A5NEK6
AXIN1 MAP3K1
EZR CAPN6
COL11A2 WDR20
EIF3G EIF3I
DLG4 TANC1
TGFB1 RHOJ
LCK PRKCD
PPP2R1A PMS1
XDH BTN1A1
MLL TASP1
SRC NFKBIA

CYP17A1 PPP2R4
NR1H2 NCOA6
CBX5 DNMT3A
TP53 RFWD2
NR3C1 RNF14
MEPCE IPO9
SMAD4 ZMYM2
SPTA1 SPTBN1
CFTR VCP
ITGB3BP CRELD1
STRBP THAP1
GDI1 GNL1
DLG4 SEMA4C
APBB1 SF3B1
CDK1 NES
ATXN7L1 SSPO
NTRK2 GIPC1
CBFA2T2 SIN3A
PRM1 SRPK1
EGFR TNS4
HSPA4 TRAF2
RHOB PPIG
CCT5 SUMO4
HIRA ASF1A
AURKAINCENP
ARF6 GANAB
PTEN RPS27A
BAG6 SEC61B
EXOSC5 LSM5
ELANE YARS
HNRNPU EP300
CTNND1 WDR48
PLCG1 SH2D2A
POLA2 DCP2
TOR1AIP2 COPS5
NFKB2 MYLK2
STAM2 UBE2D2
CCNB1 GADD45A
ABCF1 PRKAB1
POLA1 RPA1

EGFR CMTM8
ENSA CNKSR2
MS4A2 PTPN11
LARS IKBKG
KLC1 MAPK8IP2
AIFM1 C4ORF14
SMAD2 SPG20
ISL1 PECR
PPP1CAACTA1
UNC119 C16ORF74
NME3 PHLDA3
CBX5 CBX3
MTNR1A RAP1A
TP53 EIF2C1
RAB14 ZFYVE20
APP CDK5
RRM2B RAD50
MAX MXI1
NUDT21 SIRT2
SCNN1B STX1A
GMPS DDA1
PIK3R1 TLN1
SMAD9 PKP2
NDEL1 LUC7L2
GTF3C1KBTBD7
SDC2 TGFBR3
CBL CSK
HMGB1RBPJ
SEC13 WNK1
USP2 LONP1
RCC1 RANBP1
MCC CYCS
PRPF4 KDM5B
CD2 ITK
ZNF35 CREB1
CEBPB SMARCB1
IL18RAP IL18
GNA14 CXCR1
PPP1CBPPP1R8
GNA14 CXCR2

EPHB1 GRB10
SIRT2 DNAJB8
PSMD3 NFKB2
MDFI SPG7
MAPK1 SH2D3C
MCC PPP2R1A
EXOSC10 CIB1
PHF2 RBPMS
DHX33 USP36
NID1 LAMA1
SFN MARK1
CEP110 MAP3K4
PRKCSH GANAB
SRSF1 YTHDC1
CEP63 C19ORF50
BAX SH3GLB1
ATG12 HNRNPA0
TRAP1 EXT1
PARP1 HSPA2
TLR4 IRAK2
INSIG1 AMFR
PAX7 CRK
ESCO2 HDAC2
EIF3B RPS6
DLG3 EXOC7
RPL11 NEDD8
RB1 KDM5A
CHAF1A LZTR1
RB1 ARID4A
TNNI3 LYST
GNB5 EIF3J
RANBP2 KPNA1
MTNR1A GNB1
YWHAE YWHAH
CDH1 CSE1L
CUX1 ELAC2
YWHAE MST1R
UBE2I GOLGB1
USP11 SETDB1
JUND JDP2

FGFR3 SH2B1
CRY1 MDFI
SUMO2 NUMA1
RELB DAXX
PNN SRRM2
KIF5B NCOA2
INSIG1 SCAP
BCL10 PRKCQ
INSIG1 SREBF2
ATM HNRNPUL1
AKT1 MTCP1
AKT1 TCL1A
BLM RMI1
NR3C1 PPARGC1A
PDE6D HRAS
MATN2 ATXN1
TP53 ZHX1
EPS8 AIMP2
FCHSD2 CCT2
TERT SMG5
HNRNPR GRB2
MAP1LC3A MAP1LC3B
WAS RAC1
ZBTB11RAPGEF2
PLCG2 ITK
CD4 DPP4
CBX5 CHAF1A
CBX5 CHAF1B
NR2C1 HDAC4
RAMP1 CALCR
PFN1 UNC119
SF3B1 GSK3B
TRIM37LTBR
GABARAP BRP44L
SOS2 PACSIN3
HNRNPA2B1 CDC42
RIPK1 MAP3K3
NCL ARRB1
DNM1 MED31
VWF CALR

STAT3 STAP2
NOS1AP NOS1
SOS1 STK39
PDPK1 MAPK8
MYH10 RIPK3
PRPF31 CTNBL1
TP53 TLL5
CCKBR PTPN11
TGFB1 ENG
NFKB1 ZFP36
PARP1 THRAP3
LONP1 MAST1
CRMP1 ARL15
CBX4 MLL
FNIP1 GABARAPL1
RPS14 RBBP6
MDM2 NDUFA12
ENSA RAP2A
EEF1D CALM2
TSC2 TBC1D7
CDK5 STX1A
CRMP1 SMPD3
MMP1 MMP7
SIP1 SRSF4
BMP2 ACVR1
KPNA4 RCC1
SMC1A CAMKK2
COL4A5 RNF10
CD151 RPS27A
SRF TCF3
PTN TBRG4
MRPS12 UNC119
MAPK1 RPS6KA2
GNAQ BTK
DFFA YWHAZ
KHDRBS3 COBRA1
PLCG2 JAK1
ZEB1 CTBP1
ESR1 MED16
BCORL1 HDAC5

TP53 RPL11
NSF ARRB1
BNIP3 BNIP3L
SUMO2 HP1BP3
CCNT2 MEPCE
UBE2E1 LRSAM1
ABL1 C3
RBBP7 TOPORS
TNFAIP8 PTP4A2
ZBTB16KRTAP4-12
FER IRS1
PCBD1 GORASP2
CSN3 MAPRE1
KCNQ3 KCNQ4
CELF1 MBNL1
EMD FATE1
SUMO3 SENP2
POLR1B RRN3
UBC COMMD1
PDGFRB PIK3R3
MKNK1FHOD1
FYN DAG1
ERP29 PTK2
THRA SRC
MLLT3 EEF1A1
ATP5J2 FTSJ1
PVR CD96
TP53 EIF2C2
DDX21 LYAR
AKT1 MXD1
H3F3B CREBBP
ORC3 VAV1
FTH1 UBR1
CCL5 DARC
ITCH UBE2E2
EXOC3 GRIN2B
SEC13 ARF6
SIRT2 HDAC6
TRAF2 TAB2
EXOSC9 CHMP4B

TKT MYOC
ARIH2 PTN
YWHAB SAMD4B
DHH PTCH2
PDGFRB CAV3
PFDN1 ACTA1
LRRC14 COPS6
UBR5 TCEA1
CUL1 MYC
RSRC1 UTP14A
ATP5A1 ATP5C1
MCM4 MCM7
MCM4 MCM5
DNM1 MOBKL3
CTNNA1 TLN2
MED1 MED12
SYNJ2 RAC1
SNW1 NOTCH3
GTF2B TRAM2
FGFR1 KPNB1
PLK1 SRPX
TERT MTOR
SENP6 RUVBL2
RPS27ADAXX
TARDBP ZHX1
PPP1CCHDAC1
ITGB7 PRKCD
PAK7 TUBGCP4
PMS1 RNF123
KIAA0776 UBE2D1
ACVR1B BMPR2
ATG7 MAP1LC3A
STAM2 TYK2
NINL EWSR1
RAPIA RASGRP4
DDX5 VHL
SFN USP8
FCGRT B2M
MCM2 ATR
BAI2 HDHD2

EGFR ERBB3
MAP2K4 DUSP22
TUBB4 TJP1
CAPN1 MYBPC3
TRIP13 KRTAP3-2
PPP2R5A NEK1
GPRASP1 GLYAT
LZTR1 ZNF490
SNCA CSNK1D
BCL2L11 BTK
HGS BEGAIN
PRKCZ FRS2
ATP5B GRB2
NCK1 CHR1
PPM1A SGOL2
HSPA1L TRAF6
PCNA SETDB1
XRCC5 POU2F1
PEX12 PEX19
STRN ESR1
SNAP23VAMP2
SCRIB TSG101
GF11B PICK1
CXCR2 GNA15
ZC3H11A MLH1
PRMT1 LGALS12
GTF2I WNK1
CDKN2A ALS2CR8
SATB1 CHD3
CCDC85B MOAP1
PCNA POLD3
NFASC FYN
HDAC2 HDAC10
LYN PLAUR
STAT6 ZNF407
RNF10 UBE2O
TPD52 MAL2
RUNX2 HES1
FAM40A ZRANB1
PIK3C2A MAP1LC3A

MAGEA11 MCRS1
CSTF2 CDC73
ARIH2 TP53
INSL6 BOC
PARK2 EP300
TADA3 FAM107B
PSMD14 PSMA3
MNT MAD1L1
HAT1 IPO4
FANCA TPT1
COL4A3 COL4A3BP
SNAP23RAC1
IRF7 TRAF6
TADA3 TAF10
LCK PTPRM
PRPF40A PCBP2
SMAD9 KAT2A
SMAD9 KAT2B
LMNA ACTB
SHMT2 IKBKE
MRPS22 NFKBIL1
ATXN1 KLHL12
STX6 SNAP29
CCL2 CCR10
RET SHC3
MEP1A MEP1B
PRPF40A SF3B3
STAU1 NCL
NID1 LGALS3BP
HSPA1B APEX1
GLB1 DNAJB1
NR1H2 PSMC5
PCNA KIAA0101
RPS27A NFE2L2
HNRPDL ATIC
DPM2 HLA-DMB
EIF3F EEF1A1
PLD1 RHEB
MYL9 CDC42BPA
ANAPC5 FZR1

ABCA1 PLTP
RB1 NCOA6
CCDC85B EXOC7
EPB41 DYNLRB1
SEMA3B SEMA3A
PRKCZ FEZ1
PSMC5 MYO18B
RPS27A KIF23
NCR3 CD247
RPS27A CNTN2
UBE2H HDAC6
POLR2C C14ORF1
POLR2E POLR2H
TLE3 PIN1
RAB33A RTN4
BMP6 SOSTDC1
MDFI C16ORF48
KIF5B PRKAB1
VDAC1 SNCA
RPS6KA5 HIST3H3
PRKCA APLP2
GRIN2D HSPA1B
TP53 NDN
XRCC6 ILVBL
ZMYM4 ZMYM2
VAV1 CBLB
PCID2 NEK6
TP53 KLF6
SLC38A1 FAM176A
CTNNB1 BCCIP
LRP8 APBA2
EP300 FBXW2
PCBP2 SRSF7
GLUL PLEKHF2
MAPK8 FHOD1
NPPA NPR1
BCL2 BECN1
SOCS3 NONO
MAVS TRAF6
MYCBP CPNE1

KRT14 KRT5
TP53 COPS8
ULK1 G3BP1
EP300 SIRT2
HNRNPA1 HNRNPK
SMAP2 TRRAP
LMNB1 NDEL1
NCOA1 SRA1
ATF7IP2 MBD1
EP300 BCL7B
MED9 MED19
GLE1 UXT
CLSTN1 GTF2F2
PRKCA NOS1
MDM2 KIF5A
EED ITGA4
ZNF250 CCDC85B
SMAD4 NOTCH4
MEF2D AGAP3
ZNF263 PLEKHF2
BRCA2 ATM
ZNF426 EFEMP2
HTATSF1 SNRPB2
BCL2L1BBC3
GRAP2 STAMBP
ANKHD1 MAP3K2
MAGED1 NUP205
PTPRD PTPRE
RAD21 STAG1
PEX19 PXMP4
CHD3 SAFB
TBP GTF3C4
ZFYVE9 RBBP6
BCR RHOA
TRAPPC3 TRAPPC4
SUMO2 MEF2D
BRCA2 SKP2
ASCC3 ASCC1
MAP2K7 GADD45B
MYC ARCN1

NOS1 BDKRB2
CHAT CAMK2A
POLR2C INTS6
H3F3B CBX2
CXCL11 CCR3
FYN IRS1
SLC9A3R1 SLC22A5
UFM1 UFC1
SUMO2 MUS81
WEE1 SKP2
MPG HSPE1
EP300 TBX21
TCERG1 WASF2
BTK PRKD1
TRAF2 NECAP2
VAV1 IL6ST
EPPK1 GSTK1
RAB11FIP3 ARF6
EIF4A3 OTUB1
HSPB1 C7ORF64
BCAP31 BCL2L1
PPP1CAMYO16
THRB RXRA
LMO4 HDAC1
CAPZA1 IKBKG
GABRDUBQLN4
HRAS RASA1
MYC HIF1A
EIF3H EIF4G1
UBQLN4 ATPIF1
HNRNPA1 RRP1
HTR2C GNAQ
CCNC MCM2
EXOSC6 DNAJC30
PSMD10 MDM2
MMAB MTRR
CACNB3 CACNA1B
FOS GTF2F1
CDC42 MAP3K11
GNRH1 MEP1A

PRMT1 MED31
RAG1 KPNA1
MCC ERP29
KIF5A NCOA2
GRB2 UBE21
CTNNB1 LEF1
TAOK1 MARK1
FYN PAX7
MAP2K7 MAP3K7
NFKBIA MCM7
TBXA2R GPRASP1
NFKBIA MCM5
ITPR3 TRPC5
NTRK1 CRK
TGFB1 UBE2Z
MED14 MED1
PFN2 DDX11
GNS GRB2
SETDB1 TRIB3
UCMA DPP4
ASCC2 FAF1
GLI3 YWHAE
INPPL1 C17ORF28
GRB2 ACTG2
ECD NR3C1
RAB5C SUN2
TECPR1 ATG5
SUPT5H POLR2C
MTPN IKBKE
MAP4K4 HIST2H2BE
NFKB2 TIMM50
PAXIP1 ASH2L
WDR5 HCFC2
SH2B2 AKT1
EZR PRKAB1
PPL EZR
CASP3 RAC1
BMPR1B BMP6
PML PLAGL1
MEN1 DBF4

UBE2I SP3
HDAC2 SMARCE1
TP53 COPS3
PLCG1 MEPE
SUMO2 CHD4
UFM1 PRKAB1
MCM2 PHC2
PRKCG CDC42
AP3D1 ARF1P1
SYNCRIP PCSK7
H3F3B CHD4
PIK3R1 DNMI
POLR2L MED29
AKR1A1 EXOSC4
PRPF4 PRPF6
MYBL2 LIN54
CREG1 TBP
PPP4C SMEK2
EGFR NCAM1
RBPMS STRBP
ERBB2 PTPRJ
TGFBRI FNTA
UBE2D3 RNF167
GRIN2A IL16
MED7 ZSCAN1
ZNF165 CCDC85B
LRPPRC NEK6
CASK PARK2
HOXC11 GTF2A1L
MCC CMPK1
CYP27B1 SIN3A
MCC ECHS1
PLSCR1OGDH
WWP2 WBP2
MID1 MID2
GJB1 PRKACA
MSH4 RAD51
SPRY2 CBLB
CXCL1 DARC
STAT3 HIF1A

PIN1P1 MAPT
MAPKAPK2 LYAR
TAF1 SMARCA2
NDC80 SKA1
HIST1H3I BCCIP
FYN ADD2
PTPRG DLG4
PRPF4 LSM7
ESR1 TRIP4
PLCG1 PTPRJ
ITGA5 FLT4
MAP3K2 FAM32A
SRP72 HNRNPA1
ARNT BRCA1
MYC TAF9
ARRB1 MDM2
DNM1L GSK3B
RIPK1 TIMM50
UTRN ACTA1
DLG4 KIF13B
KIF1B LASS2
CD99 UBE2H
GRIN2D RAP2A
PHLPP1 WDR48
ESR1 MED1
HTR2A NME3
RAF1 ACTN2
GRIN2D PPP2R2A
LRRC4C NTNG1
ATP5C1 MED15
EIF3D EIF3E
LCK CDC42
FTH1 TOLLIP
PRKDC NCF4
PNP TP53
PLCG2 PIK3R1
RPF1 NDFIP1
ATM FANCD2
TP53 MPHOSPH6
MYC POLR2B

CANX SERP1
GH1 SARS
WEE1 YWHAZ
ACAA2 YWHAG
CDK2 CNOT7
TP53 HIPK1
PRNP GRB2
FYN PAX3
TFCP2 MAP1A
TAPBP HLA-A
ARF6 AP1B1
TRIM28IKBKG
VAV1 SLA
TCERG1 CHD8
HSP90AA1 GUCY1B3
HERC2 DISC1
PTPN6 KDR
SRC PRKCE
LOXL4 MAST1
PCBP1 MAPK6
C8ORF41 RUVBL2
DPP4 CCL11
IL1A IL1R1
NUDT19 ARL3
PRKCG PARD6A
PLCG1 TCF7L2
FIBP FGFBP1
XRCC5 LIG4
MMRN2 DAXX
U2AF2 PIN1
PRPF40A SF3A1
UBC RNASEH2A
GYG2 GYS1
GOT2 CTNNBIP1
COPA SLC25A11
CDK5 CDC37
YWHAG C1QBP
TP53 HSPA4
TP53 HSPA1L
MEN1 ASH2L

DLG4 GRIN2C
RBCK1 UBE2D4
CCDC85B SYTL4
DOK2 IL4R
LZTR1 TRIM5
CAPN2 ADRBK1
MDFI CLPB
TIA1 DCP1A
TRAF2 FBXO28
NAA38 SNRPD1
CD247 LY6E
LYN PTPRC
RASA1 PAG1
ZNF276 ZBTB8B
SEC16ANFKB2
AGTR1 ZBTB16
JAK1 GRB2
NAA38 LSM3
NAA38 LSM6
SRC KRT10
LSM6 LSM2
RAD21 CHTF18
CANX IKBKG
NCOR1 PIAS1
UBC PRKCA
EEF1D KARS
TCEB3 REXO1
GTF2A1 TAF5
TNFAIP3 YWHAG
SEC63 GSTK1
KDM1AZMYM2
PAK2 SH3PXD2A
HRK BCL2L2
RELA TUBB2B
DNM1 CABIN1
HLA-G HLA-A
FBXW4 MAST1
OPTN MACF1
NPM1 CNBP
FGFR1 ERBB3

LIMS1 MBIP
HSCB BBS4
NCK2 HNRNPK
SAFB2 MAP1LC3B
GRIA3 SQSTM1
STEAP3PKMYT1
COPS6 DCAF11
TAF6 SH3KBP1
ITGA8 NPNT
HSPA9 NFKBIB
PEX19 PEX16
WDR48 WNK1
BRD1 ING5
ACTG1 NFKB2
UBE2N RNF168
GNA11 RGS3
SPAG9 ARF1P1
TIRAP TRAF6
CLU CLUAP1
CIAO1 TRIM28
PRKCB AFAP1
RHOG ECT2
PIK3R2 AXL
ARIH2 ARAP1
NFKB2 HSPA1B
TRIP13 PARK2
FXR2 PCBD1
EIF4E2 KRTAP4-12
ATF7IP MED4
PPP2CBSTRN4
EWSR1 MVK
ARPC3 OTUD5
IRF1 NFKB1
LGALS3 CSNK2A2
ARPC5 NR3C1
MAPK1 PTPRR
DNAJB1 STUB1
PRPF40A SF3B4
FANCA TCP1
GPRIN2KRTAP4-12

SKIL HIPK1
HSPA1L RIPK3
APC POM121
HSP90AA1 CALM2
SUMO1 SIN3A
PRPF40A SF3A2
ZCCHC10 STAC3
SMAD9 EVC2
CCT3 PPP2R2C
TRADD TRPC4AP
SSSCA1RNF115
USP46 DMWD
SNRNP70 CEP63
KRAS HNRNPC
IQGAP2UBAC1
FGFR1 PLCG1
RXRA ITGB3BP
TRAF3 TBK1
E2F1 KLF6
MAFG MAF
YWHAG YWHAE
RBM23 SRRM1
SRC CEACAM1
FXR2 TRIM29
CDK5 LMTK2
ANXA7 PAX8
TAF6 SMARCA2
KHDRBS3 HNRNPC
E2F1 NDN
HNF4A NR0B2
FASLG ARHGDI
TPM2 ACTB
RAB4A RUFY1
NR2C1 NR2C2
FCHSD1 ITSN2
TUBB TAOK2
ANPEP TM4SF1
MTHFD1 ARF6
CD79A BLK
FAF2 SEL1L

WDR5 IKBKG
S100B ANXA6
PRPF8 SND1
PAX3 RPS27A
PLXNB1 SEMA4B
DPEP3 BCL11B
EZR RAPGEF2
EIF4B USP7
MAPK1 MAPKAPK2
PIK3R1 PALM2
TRIM21NCOA1
KCNH4 EMX1
UBE2L6 ARIH2
ATF3 FGFR3
NR4A2 ZCCHC17
HLA-A CANX
GJC1 TJP1
CUL2 COPS6
MED6 MED26
PAX3 GRB2
EIF4G1 HNRNPD
ZZEF1 PTPN4
IL2RA CD4
EP300 ANAPC2
IRF7 MAFB
BNIP3L BCL2L1
EP300 ANAPC5
NPAT CREBBP
PRPF40A RNPS1
SRP72 CASP3
GRB2 NEU3
HIST1H4I PHF20
MDFI TRPV6
IGFBP2 INO80B
SERBP1TOPORS
TLR5 SIGIRR
APOB PPIB
SUV39H2 EWSR1
C20ORF24 PTPLAD1
CCT5 TRAF3IP3

E2F1 SPIB
RAD1 POLB
PRKACA CETN1
MDM2 DAXX
SMAD7 TTF2
TP53 PPP1R13L
BNIP3L MAP1LC3A
STOM ACCN1
ACTB GNA12
JUP TCF4
RRM2 TSG101
STAMPB CHMP1A
BAG6 ATXN2
IFT20 TRAF3IP1
SRC EFNB2
NPM1 HIST1H4I
APC TRIM56
NFKB2 HDAC5
SETDB1 ORAI2
TBP E2F1
IPO8 EIF2C3
CD4 NR3C1
DIAPH1RPF1
POLR2C ERCC3
MED26 POLR2C
EZR TRAF6
MED26 POLR2E
ZW10 BRF2
OLFM2 RPS6
BAG6 FAM173A
PIK3R1 DLGAP4
TGFBR1 RHEBL1
SYT1 SNAP25
DGKZ SNTG1
SERTAD2 KAT2B
NCOA1 SMARCE1
CSNK1A1 OCLN
NGF NGFR
RELA KCTD12
TP53 STUB1

PDE6D RASA1
EP300 LEF1
HDAC1 E2F4
PTPN2 JAK1
P4HB ERO1L
RPA3 PAK7
EP300 ING1
PLCG1 SH2B3
STAT1 HSF1
ANXA2 MLH1
SMAD9 SMAD4
EDNRA HDAC7
UNC119 PPA1
FRS3 FGFR1
CDH12 CDH7
SMARCA5 SATB1
VAMP2 RABAC1
FANCA FANCE
MAPK8 DUSP10
HTATSF1 SNRNP70
UBR5 PAIP1
PIK3C2A PMS1
KIT BTK
PPP2R1A PDCD10
LRP6 FZD8
NCOR1 SMARCB1
ARHGDI1 BID
TP53 ING4
UBQLN4 UBQLN2
EXOSC10 MPHOSPH6
SKIV2L2 EXOSC2
ESR1 TRAM1
BMPR1B BMPR2
RRAS NCK1
ARPC2 SF3B3
PRKCB CD5
PLCG1 ARHGEF5
KRR1 EWSR1
CSNK2B GADD45GIP1
THRA EP300

NFYA NFYC
KIAA1279 ATXN2
ZNHIT1 ACTR6
CDK2 CDK6
TRIM21 IRF8
MED7 MED22
IAPP COL25A1
HNRNPA2B1 MEPCE
LMNA RB1
MAP3K7 TUBB2B
PRKCA SHC1
PRKCA PTPN6
PIAS2 ZBTB4
TSEN15 TSEN34
EEA1 RABEP1
MAPK3 DCC
CSNK2B WDR48
SDC3 FGF2
DNMT1 TSG101
CASP8 IFT57
TP53 FBXO11
HAP1 UTP3
COL4A4 ANTXR2
SRSF4 PNN
EZR S100P
PRELP NID2
SOCS3 TCEB2
LDOC1 POLL
GSK3B SMARCA2
WDYHV1 PLDN
RAB27A MYRIP
NCK1 ABCG5
COL1A1 TMPRSS6
EXOSC10 MAP3K14
GPC1 MAPK14
PTBP1 CASP3
TP53 BARD1
CAPZA1 CD2AP
HIST1H2BB EP300
SOCS3 TCEB1

JUP DSC1
TNK2 RASGEF1C
MBL2 CALR
MAPK1 BLVRA
CREG1 RB1
NR3C1 NR2F2
ZSCAN30 SUFU
JAK2 VAV1
SUPT3H TADA1
SCRIB MAP3K3
TP53 CDC14A
KPNA1 LYAR
MED12 MED9
HNRNPA3 SMAD2
POLR2C POLR2L
GNB1 HDAC5
TRAF2 THAP7
GNAI1 KLHL3
ZBTB7B ZNF277
NCK1 DUSP15
BMS1 USP42
FYN BCAR1
TCP1 TRAF3IP3
BMPR1B GDF5
BMP2 NOG
CHRD TWSG1
SYNCRIP HNRNPA1
CBFA2T3 RUNX1T1
STAT3 ZNF467
KPNA1 PAX5
SLC38A1 CHD3
KDM1ADPEP2
CSNK2B FAF1
VAMP4 PACS1
RPL5 CSNK2B
HTR1B GSTK1
ATP5L HLA-B
MASP2 FCN2
NONO TOPORS
ANKRD28 PLK1

EXOC6 LOXL4
AGT ENPEP
MAPK13 MAP3K4
PDX1 NEUROD1
SOX6 HDAC1
GRINL1A MYO9A
POLR2H MED29
MMP2 BACE1
DCN PLA2G2A
IRS1 YWHAG
TRMT61A TRMT6
TINF2 TERF2IP
PAAF1 UCHL5
EIF3B RPTOR
MAPK14 DDX26B
RANGAP1 TMBIM4
SLC24A1 PIK3R1
STAT1 ZNF467
PIAS1 SMAD4
WDR62 INSL6
EIF1B LARP1
KLK7 CDSN
HIST1H4I HIRIP3
XRN1 UPF2
CBX7 HDAC2
PML RFC4
IL1B PRTN3
USP19 CAMK2G
RPS6KA5 MAPK14
AMFR UBE2W
AURKAKIF11
MEF2D LENG8
SPP1 ITGA9
TRPC7 TRPC6
FBXO27 STUB1
MEN1 NFKB2
PRPF40A CCT4
INSR CSK
CSNK2A2 GTF2A1L
UBE2D1 RNF38

IARS MAP3K3
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TAGLN GIPC1
APBB1 DHX9
DNM1 CLIC4
NFKBIA IKZF4
TRIM27FXVD6
DNM1 SNX9
SERPIND1 ELANE
C20ORF94 ERCC4
CXCL13 CCL19
SUGP2 LZTR1
CLOCK KAT2B
CBX7 RING1
BMP4 BMP8B
APC SREBF2
SAFB SRRM1
PRKACA AKAP8L
RELA PPARA
HSP90AA1 RUNX1T1
RPF2 G3BP2
EIF3F CCNA1
NUDT18 RAB3IL1
TH1L WHSC2
DAND5 NFYA
SERPIND1 CTSG
MAPK8 ETV1
ESR1 NCOA2
NEFL MTMR2
PLCG1 GAB2
RAB27A COPS6
EPPK1 TSC22D1
IRS1 MAPK9
IRS1 MAPK8
XRN2 DISC1
GSN PTK2B
ADRBK1 PRKCD
STXBP3 DDX20
FRMD5 TH1L
INSR PTPRF

IGF1 TF
ARPC2 SF3B4
TCEB1 COMMD1
VAV2 DNAJC21
NCOR1 HDAC4
HDAC4 SENP1
ARR3 CSNK2A1
SYN1 CAMK1
MET PTPN3
SLC25A4 PPID
HDAC3 RUNX1T1
AMBRA1 ATG3
STMN1 HLA-B
SRC EFNA5
PCNA PPP1CA
EGFR CEACAM1
TK2 YWHAZ
DEGS1 TSSC1
YES1 MED28
GTF2E1ZBTB9
STAT5A PRMT1
MC5R MRAP2
ESR1 TAF1A
KPNA1 MEPCE
NCK1 KIF13A
RAD51L1 RAD51C
PPL USP7
RAC1 ARHGAP44
PRKACA KCNH2
ATRX NEK1
CHN2 RACGAP1
EGFR KRT18
BMPR1B DCAF7
SMG6 SMG5
TH CSNK2A1
NPTX1 PLXNA1
RBPMS ZNF581
NDUFA7 STARD9
RUNX2 MAP3K4
E2F1 ATR

EP300 CTBP1
RNF8 UBE2W
EPRS TH1L
HSP90AA1 EIF2AK2
XRCC1 APEX1
AFTPH GGA3
RNF144A UBE2L3
NCOR2 NCOA3
RGS2 DYNLL1
PDCD6 PLSCR4
TGFB1 OSR1
POLR2L MED10
CTNND1 FYN
UFM1 UBE2D4
CACNA1H KCNMA1
PRKCA AFAP1
EIF3G MPHOSPH6
CRKL ERBB4
SMAD3 MYOCD
HIST2H2BE BAZ1B
SYVN1 SEL1L
HLA-B ARHGEF4
PLK1 DCTN1
CPSF3 GSTK1
INSL6 CCDC106
TLR4 RIPK2
CXCR1 CXCR2
CLK2 TOPBP1
IFI35 BATF
CRYBB3 CRYBA2
PRKCH PTPN11
SOS1 SH3PXD2A
SMAD6 SMURF1
MAX DYNC1H1
PHGDH SUMO4
SMARCC1 CARM1
E2F1 TEAD3
UBQLN4 CYB5R1
YWHAB TUBA1A
LYN PAG1

UVRAGSH3GLB1
LRPAP1 SORT1
PIP5K1C TLN2
MAP2K5 SQSTM1
POU2F2MNAT1
DVL2 TRIM29
SAFB2 RB1CC1
PIK3CDHRAS
TCHH EFHD1
DLG4 SEMA4B
CEBPB CEBPD
VEGFA ADAMTS1
RAD51L1 XRCC2
TP53 SETD7
FCER1A ITIH2
LMNA CDK1
PHC1 RING1
BCL2 CAPN2
CTNND1 LCK
APBB1 CPSF7
TP53 VRK2
OGFR GSTK1
NDUFA9 SIRT3
SS18L1 RLIM
TRIM27TRIM32
RBX1 CUL1
RBX1 CUL2
RBX1 CUL3
RBX1 CUL4A
EDNRB GNA13
NPHP1 ASAP1
CECR6 KDM5B
SIPA1L1 DLG4
ZNF440 PJA1
NCOA6 MLL3
PTPN13 PLEKHA1
KCNA2 KCNAB1
EIF4G1 EIF3A
MCM7 VHL
RPF1 TTYH2

HNRNPA2B1 MAP3K2
LGALS2 TUBA4A
NVL TTF2
C11ORF83 PHLDA3
EIF4G1 IKBKE
PKLR OTUD5
KDM1APRDM1
MLLT10 SS18
PLSCR1FBXL18
CMYA5DTNBP1
BMI1 ZBTB16
MAPT MARK1
DAPK1 MIB1
CACNA1H KDM5B
PLSCR1ILF3
RAB3GAP1 GSTK1
PTPN13 PLEKHA2
SMAD2 PIAS4
CIR1 NCOR2
CTBP1 FOXP2
CYP2C18 ECSIT
EIF1B HMGB2
UBTF RRN3
SMARCB1 SMARCC1
ATM TDP1
MAP2K7 MAP3K13
LYN MME
TRAF1 TRAIIP
ITK SH2D2A
CBL SH3GL2
MYC POU2F2
CDC42 ARHGAP29
ZNF165 ZNF192
SLC9A3R2 SLCO3A1
CBL SH3GL3
CXCR4 GNA13
PAX9 TRIP4
APC PPP1R13B
CNN1 PRKCE
BCL2 PRKACA

PLCG1 CAMK2A
SAMSN1 PILRB
E2F1 HDAC1
CDK2 SPDYA
CALM2 GRM4
HSP90AA1 GUCY1A2
CALM2 GRM7
UBE2I NR1D2
CALM2 GRM3
TRIP13 CARD14
CYFIP2 PACSIN1
HSP90AA1 SLC34A1
RBL1 SUV420H2
CKAP5 MEPCE
LMX1B TCF3
HSPA9 TAB1
MAPK9 TOB1
PDE4A AKAP6
RUNX1T1 C19ORF57
JUP DSPP
MLLT4 PVRL3
RPA1 RAD9A
B3GNT1 LARGE
FYN FLNC
DNM2 SHANK2
CTNNB1 CARM1
RPL11 NFKBIB
IKBKB CASP8
IGBP1 CCT2
CAPZA1 RIPK3
NCL PRKCZ
RNF103 UBE2Z
NKTR RNPS1
RAB5C RABAC1
EZR ACTC1
UNC119 PAFAH1B3
SPTLC1 SPTLC2
EPB41 ECHS1
QTRT1 COPS6
MAPK1 PEA15

HSP90AA1 SIN3A
ASS1 ASCC2
SOD2 RAB4A
PRKCA ADRBK1
IRF5 IRF3
NEK9 MAP1LC3B
ITGA2BCLNS1A
YTHDF1 ITS2N2
HMGB1 PPP2R3A
PSMC5 PSMD1
SETDB1 SIN3A
TUBG1 SPATC1
DLGAP1 PLCG1
TIMP2 RANBP1
SNRPD3 STRAP
ERCC3 GTF2H5
EIF3H PRKAB1
SLC16A1 TRAF6
MED12 MED29
JUP MUC1
PPP1CCTP53BP2
DCAF7 DDB1
COIL CEP76
TGFBR1 RPAP3
RBX1 CUL4B
PDIA3 LOXL2
EPB41 PEBP1
PAK1 SMAD4
ABL1 CNTFR
NOL3 TFPT
CRMP1 DDX18
HNRNPF RBFOX1
CCDC85B GCC1
PRMT5 SMARCA4
RPL35A TRAF6
ZNF512B INVS
PRMT5 SMARCA2
HTRA2 TRAF2
FYN CDK5
STK25 FAM40B

SKIV2L2 TAF10
USP39 PRPF31
TMEM33 PSMD6
PIK3R2 GRB2
KRT35 USP15
EPB41 RAB8A
ABL1 ORC1
CCDC85B SMARCD1
RAE1 SMU1
RARA JUB
ADRB1 MAGI1
KCNJ2 INADL
KRT18 EXOC8
TAL1 LMO1
RAE1 TJP2
ATXN7 TAF10
HIP1 APAF1
FCGR2B C14ORF1
TRIM27UBE2D3
VHL TXNDC17
TP53 TP53TG1
NDUFB10 HTR2A
ERBB3 PTK6
EPB41 RAB2A
CRCP CALCRL
SP5 NKX3-1
TXK TH1L
RBL1 ID2
CREB1 UBE2I
MLLT4 TJP1
RELA EEF1A2
ESR1 CRIPAK
GTF2F2 STK38
MEF2C LRRC37A3
NCK1 APOL5
FLNC SGCD
PTPRN SNX19
RAN SPAG8
EIF2S2 EIF2B1
SYNCRIP CSDE1

LNK2 UBE2Z
FOXN3 EXOSC8
XIAP UBE2J2
GH1 CYCS
PGAP3 PER3
RAB3D AKT2
BRCA1 FHL2
GAPDHS SH3BP4
ABL1 ADAM15
NSF LUC7L2
RFC2 RFC1
BIN1 CACNA1C
BCL2 BMF
RAB3D AKT1
LYN PLCG1
PLSCR1C16ORF48
PPM1F CAMK2A
KDM4AWDR48
MRPL49 OXA1L
ITGB5 TLN1
CCNI CEP63
EGFR ELF3
SASH1 SFN
PSMA7 HLA-B
SREBF1TWIST2
EEF1A2IKBKG
SOCS7 EGFR
VHL SAT2
DDX3X RAD51C
ORC3 SLA
MEPCE MAGED2
H2AFJ PHF14
CCT5 STK24
YWHAB NCKAP1
C14ORF139 LUC7L2
MYC NOL9
RAC1 ACO2
ERCC5 GTF2H1
RPA3 MRFAP1
NEDD8 TRAF6

NFKB1 NACA
E2F3 USF1
RFC2 GTF2F1
PCBD1 LRP1B
MEN1 MLL
ARPC5L ACTR3B
RPA1 BRCA1
TAF10 TAF3
BCL2L11 BCL2L2
CASR RPS27A
SCFD1 DKKL1
PRKACB PKIA
PARK2 RPS27A
HCK ACTB
PLEC USP20
RAN IPO11
ASAP2 SRC
CDK1 NSFL1C
EXOSC9 EXOSC3
HSP90AA1 EIF2AK1
HNRNPH1 HNRNPD
TP53 ZBTB2
EXOSC9 EXOSC5
EPB41 RAB10
TRIM27UBE2K
SOX9 TRAF2
RPF1 SMURF2
KCNV1 KCNB2
ZNF408 ZNF330
RPA2 GOLM1
HSF1 HSF2
SLC9A1RAC1
EPT1 EWSR1
MBP EFHA1
TRAF2 C16ORF48
PBX2 COPS6
HSPA9 NFKB2
KLF6 PNO1
SYNCRIP PRKRA
MAP3K3 HSPA1B

CENPA HIST1H3J
ABLIM1 SFN
RAN VRK1
NAPG STX8
ACTA1 CCIN
USP12 UCHL5
SREBF1NR0B1
RPA2 COPS6
CCT5 ACTA1
CD40 SLC30A7
SMC2 SMC4
SUCLG1 CHMP1B
PRPSAP1 TRAF6
TSPAN17 PTPLAD1
UBE4B VAV2
HOXA1 KRTAP4-12
LAMB3 LAMA3
SERTAD2 TFDP1
EPO EPOR
RIC8A UBQLN1
USP2 BEND5
S100A3 DLG3
SMAD9 ZSCAN4
CCNT1 SKP2
TBXA2R GNAQ
LRIG3 NEIL1
NCK1 EIF2B2
GYS1 CSNK2A1
SRC PDCD6IP
SCLT1 IKBKG
SMAD3 ZNF83
GNAQ HTR6
SRC DOK1
GIGYF1ATN1
GRB2 USP6NL
TPT1 MCL1
PTP4A3 ABCD3
STAM2 DAZAP2
LARP7 MEPCE
GUCY2D GUCA2B

GRB2 TFG
MYCBP2 YWHAG
AIP MAX
SKAP2 FASLG
BCAR1 PTK2B
KDELRL1 BRF2
F12 MMP13
EPHB2 GPRIN1
RAD17 ATR
HTR6 GNAS
YWHAG MAPKAP1
CAMKK2 ATG4B
GH1 EIF3M
PSMD6 UBE3C
HDAC1 PIAS3
HSP90AA1 MS4A2
RAB3A CHML
APC TUBA4A
THBS1 SPARC
DNAJB6 BRMS1
CCDC85B ZNF764
RPS24 TFCP2
KPNA1 TAF9
ZFYVE9 JUP
EPHB6 SMAD2
KLF4 HDAC1
GNAI1 S1PR5
MAT2A IKBKE
WWC1 TNIK
NAT9 KIAA1377
HDAC3 NUDT21
RARS2 PHLDA3
HNRNPC HNRNPA1
NCK2 PTK2
DSG1 PKP2
MAP7D1 C7ORF64
TSHR GNA12
CTNND1 CDH2
MLLT3 EEF1A1
PSTPIP1 ASAP1

PRKACA CACNG2
PPFIA4 AGTPBP1
MID1 UBE2D4
TCEA1 IWS1
CDKN1B YWHAH
KIF3C KIF3A
ETS1 EIF3A
BIN1 CUX1
RIPK2 UBE2I
SUV39H1 TAL1
PSMC2 PSMD7
HSPB3 MRPL38
PRKCG MARK4
UBC YWHAG
CLN3 AUP1
PKN1 PLEKHA5
HNRNPM SRRM2
PLCG1 GTF2H1
ADAM10 MAD2L1
PLD2 STXBP1
CCND3 PPP1CC
CDK5 SET
PFN2 IK
TOP1 CASP6
MAPK3 MAP2K1
DBF4B KRTAP4-12
HLA-B PSMD1
SMAD1 SMURF1
ATXN1 FAT4
DRD2 CLIC6
ACTA1 PRKCD
SUMO1 INGX
CUL2 ARID1B
HSPB1 CYCS
TFAP2B VPS11
RPS27AITCH
TCP1 PPP2CA
EXOSC2 MEPCE
MCM7 MCM6
DNM1L MAGEA1

TOP3A TERF2
CIAO1 DCTN1
SPTAN1 TSSC4
EPB41 EIF4G1
SAP18 HEATR2
CRYAB APP
OS9 FOXRED2
ITGB4 FLNA
FGF1 S100A13
TGFBR2 SMURF2
SMAD7 EP300
RHO SAG
TLE1 LEF1
HDAC3 PARP1
NSMAF MAP1LC3C
MYH9 MYOM2
CD34 PRKCD
CDK9 MEPCE
PDGFRB STAT3
MYCN CSNK2A2
PARK2 DNAJB1
RBM39 ESR2
PLCD4 IPO11
TNFAIP3 TRAF2
FLOT1 BBS4
DMRTB1 LENG8
ATXN7L3B USP22
GLRX3 CIAPIN1
PSMD11 USP15
PRKAR2A CAV1
SMAD6 TGFBR1
RBMX LNX1
PIAS2 UBE2I
CCL24 CCR3
PPP1R12A RIPK3
MOS HSPA1B
MDFI ZNF670
MRPL43 DDX56
EIF3D EIF1B
RUNX1T1 TAF9B

RPS27A PGAM5
HDAC3 MBD1
PRKACA PLN
ACTN4 COIL
SEC14L3 PSMB9
DRD1 GPRIN1
CDC25B KRT31
ASCL1 EP300
ZNF165 TCEB3B
HDAC2 SRA1
HSP90AB1 NFKB2
HAND1 PPP2R5D
MAGEB2 RPL35
ELN MMP12
NDEL1 MIS18A
RAC1 ARHGDIG
PTPN1 MAPK1
ABL1 DNASE1L2
UBA1 STUB1
CALB1 IKBKG
NCK1 COBRA1
COIL WDYHV1
YWHAE TPH2
RAP2A RAPGEF4
ITGB1 SLC3A2
HDAC4 ACTA1
SEPT7 CDC42EP5
CCNA1 KIAA1967
KHDRBS3 PSMF1
ARSA CLEC4G
MED1 NR1I3
PTPN11 SIGLEC7
MYOCD KDM3A
ZC3H14 EXOC7
RGS2 PPP1R9A
ARIH2 WDR91
HLA-B VCP
TIMM50 AKTIP
GRM5 EFN2
PSIP1 PTK2

PSMD11 USP14
NCK1 TRAIIP
ATXN7L3 SERTAD1
GPSM2 NUMA1
INS IDE
MLL2 SMAD1
MEGF10 ARHGAP32
YWHAQ SAMD4B
SSTR5 SST
KPNA1 HIST3H3
DIAPH1WBP4
CLTA RXRB
POLD1 POLD3
DVL3 NKD1
RXRA RELA
ROR2 FZD2
GABARAPL2 ULK2
SH3GL3 SNX24
HDAC2 BRMS1
CCDC85B CCDC120
PIK3R1 DOCK3
YWHAZ NEDD4L
CDK9 DHX30
EPHA1 SMURF2
PRKCD AKT3
VHL C6ORF125
RPL38 TRAF6
USP7 SRP68
RASA1 TSC1
P4HB P4HA3
YWHAZ FAM13B
BAG3 WNK1
ASXL2 BAP1
YWHAZ FAM53C
PSMB6 POMP
TXNDC9 FEZ1
VCAN SELPLG
TRAF3IP1 PPP1R13B
ATXN1 FAM46B
CLTB CSNK2A1

TIMP2 PAICS
ACVR1 BMPR2
MED7 BARHL1
MYC BIN1
LSM6 MCRS1
HDAC1 MAD1L1
PLCG2 SYK
DYNLL1 DYNC1H1
YWHAE ZC3H7A
DDX5 TCEA1
PLCG1 CD22
LYN EPOR
RPS6KB1 RAC1
ABCA1 GOPC
TNK2 PAK2
MAST2 CDHR2
SNTB2 DTNA
SMURF2 UXT
CBX4 USP7
MYL6 DNAJB9
PIK3R1 ABI1
ZNF318 HDAC2
NR3C2 RANBP2
GPS2 DBNL
SIP1 FBL
IQGAP1ACTA1
FGA NID1
CHMP2A STAMBP
VDAC1 MCC
EIF3E ARF6
SRC SHB
H2AFJ DEK
MYC DDX24
ELAVL1 GIGYF2
CRMP1 CCT7
SMURF2 ASH2L
C19ORF50 MOBKL1B
HNRNPH1 IKBKE
UTP14A NINL
BMP6 BMPR2

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HDAC1 ZMYND11
RASSF7DISC1
VHL LMAN1
TK2 TUBB2A
TRIM25RARRES3
LRP6 GSK3B
PTTG1 BTRC
C4ORF17 SH3GL3
MLLT4 USP9X
TAL1 LMO2
TCF3 SKP2
NCK1 ASXL1
YY1 GTF2B
HSPE1 DSTYK
SIRT1 EZH2
GDF9 ORAI2
KRT6B KRT15
PIM1 SHMT1
NSMAFGABARAPL1
ZBTB16WDR33
HOXC8 SMAD1
UBE2I RNF185
CHRM4GPRASP1
SGTA PFN2
BRCA1 TOPBP1
TRAF2 TUBA3C
SPCS2 STMN3
SOCS3 MAP3K7
CDK5RAP2 LUC7L2
TPM4 TRIP6
NCL RAC3
VAMP4 AP1M1
SKIL UIMC1
G3BP2 TRAF6
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CSNK2A2 PPP1R8
PRKCA FAS

SRC ETS2
CUL5 COPS4
FOS CAMSAP1L1
KCNJ12DLG2
TSC2 RAP1A
RAC1 MYD88
SNX3 VHL
PIPOX ODF2L
ATN1 RERE
ADAM15 SNX9
HNRNPH1 CRMP1
LNK2 LNK1
RALGDS RIT2
SARS FTSJ1
ZC3H12A AHSP
COLEC11 PPIG
CHD3 PTPRS
BRCA1 BAP1
CDH1 FOXM1
VHL DNAJA3
CBX3 ARL5A
SUMO1 BTBD1
REV1 POLL
RPN2 TSC22D1
NPHP1 TUBB
CDK2 CDK15
CEBPB HDAC1
USHBP1 CEP63
HDAC1 CABIN1
CHD3 NAB2
FURIN PRB4
TGFA NKD2
STAT1 NUCB2
CCT6A PPP2CB
NFKB1 SPTAN1
DPPA2 SDCBP2
FDFT1 SHPRH
OTX2 FOXA2
CTNND1 JUP
PIM1 CDC25A

RNF7 IKBKG
C19ORF50 UTP6
GPD2 WNK1
DCX PPP1R9B
IGHM UBQLN4
MYL2 LRSAM1
CDC42EP1 FHL3
TP53 CDKN2A
HDAC1 DNMT3A
CSNK2A2 HMGA2
UBA5 SH3GLB2
UBXN1 WDR20
CIAO1 HDAC2
VPS4B CHMP1A
HLA-A UGGT2
HLA-A UGGT1
HLA-B RCC2
CDK2 UHRF2
RAMP2 CALCRL
AGT KNG1
CEACAM1 CLEC4M
SYK CRKL
PDPK1 RPS6KA3
FKBP2 UBQLN4
GNAI3 NUCB1
HNRNPUL1 NXF1
NLGN2 DLG3
DTX3L UBE2D4
RELA PRKCZ
ELN FBN1
SELL SELE
LPXN PTPN12
ELN FBN2
FOXO3 FANCD2
EIF1B RPS11
TRAK2 KCNJ2
ADCYAP1 SCTR
CAV2 FLOT2
FER ABI1
DCX USP9X

ABL1 ATM
JAK1 BRCA1
STRN3 FAM40A
TCF3 ID1
EIF1B RPS29
TRIM29MYO15B
NFIC TPD52L3
ITGA2 LAMA1
ABL1 GRB10
VCAM1MSN
SRSF5 CD101
KPNA3 MEPCE
MYL2 CDC42BPA
TRDMT1 INSL6
SMAD9 MTMR11
SLC6A4PICK1
E2F1 E2F4
PAX6 INADL
MEN1 PIAS4
HDAC2 MAD1L1
SETDB1 ZFP64
UBE2L3 NEDD4L
CYFIP1 CYFIP2
PDLIM1 ACTN2
EIF1B RPS14
CLTC AP3B2
GRK1 SNCB
APC CSNK2A1
CDH6 CDH18
VCAM1ITGB7
PRKCA HMGA2
BEGAIN ZFP64
SRF CASP9
DLEU1 SHMT1
SRF CASP6
SRF CASP7
SUPT5H PCBD1
TP53 TAF9
SFN MPRIP
YWHAE HDAC7

CXCR1 CXCL5
CD46 CD151
SMNDC1 PREX1
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FANCA GRB2
PIN1 SRRM2
RBFox2 QKI
TRAF2 ITPK1
ARF6 PIP5K1A
GLI3 STK36
PPP2CAMRPS26
ERCC3 RAD52
RNF113A UBE2U
TBCB GAN
ANKRD13A SMAD5
CSE1L IKBKG
NCK1 DOCK3
CD4 CTSD
IKBKAP ELP3
TCEA1 INTS1
AR RAD9A
TRAF2 RIPK1
ACP5 TNFSF10
YWHAZ ATL2
MAP3K8 RELA
RPA3 TRAF6
DLG4 DYNLL2
SLC9A1YWHAZ
HOXC9 HOXC13
SIN3A NCOR2
PAEP SMAD3
GH1 CSNK2B
PSMB7 POMP
SQSTM1 CEP78
ESR1 TAP1
EWSR1 KCNMB1
MUT PCBD1
DVL1 VANGL1
PRKDC LRDD
GADD45G RXRA

SKIL SIN3A
GABARAPL2 EIF4G1
SDCBP EPHB2
RBM25 GRB2
MCC FAM40A
NR1H4 NCOR2
NUAK1 PRKAR1A
HDAC2 CABIN1
NDC80 MAD2L1
TRAF2 PIN1
MAGEA11 PNKD
TLE1 HDAC1
PFN2 EEF1A1
SART1 WBP4
ATXN3 PICK1
URB1 NCK1
PROS1 TYRO3
MTA2 GTF2E2
AP2A1 NAGPA
BCL2L11 BAD
ZCCHC12 APPBP2
PTGIR ADCY10
KDM1ACDC5L
RXRA PRMT2
INSR PTPRJ
RBBP6 WBSCR16
PHACTR2 NCK1
RIOK3 FBL
SOD2 HDHD2
HSPA4 SMAD3
PCNA RELA
KDEL1 NEK6
PPP2R1B PPP2CB
EIF2AK2 CDC42
PRKAB2 MAP3K5
WBP4 SFPQ
CAD TRAF2
CSNK1A1 PSEN2
HSPA5 TANK
CDH1 IQGAP1

EHMT2 CDYL
YWHAZ CIC
MED6 MED19
APOH ANXA2
PLSCR1NPDC1
GRB2 PXDN
MAP2K7 ERC2
PSME3 YWHAZ
HNF1A TBCA
DMD FASLG
LMO2 NHLH1
PRMT1 PRMT8
ETS1 RAD23B
RPS6KB1 EIF4B
RAD50 USP42
HDAC3 DAXX
CHEK1 POLA1
MCC PSMD2
SPTA1 ERCC4
PDCD6IP VPS28
LIFR PTPN11
PRKCG PEBP1
MAFG HOXD12
IGF2 IDE
TMEM11 BNIP3L
CTNNB1 GPRIN1
YWHAZ MYOF
PLK1 BICD2
BCAR1 DOCK1
DRAP1 PIK3R3
APP SET
LONP1 ECSIT
LMNA UBE2I
YKT6 USO1
TFAP2A GRB2
ZAP70 TUBA4A
FADS1 DHCR7
USP12 USP39
TPR MAPK1
TFAP2A RPS27A

TPO TXNDC11
CLSTN1 KLC1
RAB27B MLPH
PLSCR1FAM113A
EIF1B RPS16
PLG ANXA2
TCEA1 REXO1
ATP6V0C LASS2
PXN PTPRO
CBFA2T3 TCF3
GSPT1 BECN1
NCL MYH9
SRC FRS2
DYNC11I1 GSK3B
DMD KCNJ4
GH1 SHC1
HNRNPL RPF1
PRKDC WRN
PLEC TSC22D1
DNM2 PACSIN3
IL6ST OSMR
ERBB2 BCAR3
ACTA1 MYO9B
GAPDHS100A6
PSMD11 USP20
PPP1R12A ROCK2
PHPT1 TRAF6
ERBB2IP CTNND2
CBL YWHAB
CBL SFN
KIAA0776 UBE2D3
NPHP1 INVS
SIN3A NR2E3
MAPK9 DUSP16
ERCC5 MAPK6
YWHAE ANKHD1
NR2F6 NAP1L1
DVL1 CSNK1D
RPL31 WBP5
LOXL4 ECSIT

FLNB SMURF2
KEAP1 SLK
GRID2 GRIK5
APP CLU
TRAF1 TNFRSF11A
SOS1 PACSIN1
CP PROC
RIPK2 CARD16
EPOR MAPK1
HNRNPK QKI
VWF COL1A2
OTUB1 NAT10
WFS1 WNK1
BIN1 ABL1
NOXA1 NOXO1
CAPZB MTPN
TGFB1 CDC42EP4
ESRRG PPARGC1A
IFNAR1 PTPN6
WNK1 BAZ2B
TCEB1 MED8
RPL38 PHLDA3
MDFI THAP7
MCL1 PIN1
SNRPB GEMIN4
CNOT7 IKBKG
INSR MAPK3
NPM1 HMGA1
YWHAE MAP3K5
HCFC1 THAP3
SOCS1 FLT3
ZNF439 MDFI
PRKCB TAF1
CBR3 USP3
MAPK1 PEBP1
ITGB1 IGF1R
MITF RPS6KA1
MMP2 MMP28
JAK2 PTPN11
BCAR1 E2F2

CAD MAPK1
F2RL2 GRB2
GTF2I SUV420H2
PIAS2 SUMO1
RPS6KA5 ATF1
PICALM EHD2
IKBKE TMEM111
MAFG C7ORF64
EXOSC6 DIS3
TAF4 SUPT3H
NR3C1 IFNGR2
SMAD9 CYP11A1
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HDAC3 DACH1
MYO1ABAZ1B
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FN1 ITGA4
SOCS2 GHR
TCF4 PIAS4
MCC MSH2
SMARCA4 NR4A2
CA4 SLC4A3
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SMAD3 PAPP
CASP1 CARD16
HCFC1 SETD7
HRAS PIK3R1
CLIP1 IQGAP1
DEXI TBCD
PITPNM1 CDK1
PARP1 TRIM29
ABL1 ROS1
HDAC1 BCL6B
LGALS3 CYHR1
PNP EPB41
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MED22 MED10
ATF7 JDP2
CCT5 RIPK3
PHB2 UPF2

EIF3H ARPC5
MAPK3 HDAC4
SNRPB CDC42
ZNF8 SMAD5
PCP2 CHR1
CSNK2B PIN1
LIN7A APBA1
GRK5 AVPR1B
CEBPB SMAD4
CACHD1 RANBP10
PRPF40A FMN1
RNF41 BIRC6
ITCH HNRNPUL1
TAF5 TAF12
PPP1R16A PHPT1
SRSF6 SF3A2
MAPK1 NDE1
ZFP36 EXOSC6
YWHAE TAB2
CENPJ PLK2
POLR2E TRIM29
MAPKAPK2 HSF1
MYC UBTF
TRIP12 CELSR3
DAND5 SMAD2
CASP3 HSPE1
CENPK PCBD2
HDAC1 MIER1
GSC SMAD3
KDR VEGFC
EMD CHD4
RAB3A PSEN1
TEAD1 YAP1
MAPK14 ROBO1
MED22 MED8
UBR5 MCRS1
ZNF24 KAT5
SIN3A MAD1L1
NUDT21 EIF1B
PSMD2 UBE3C

SPI1 MAPK8
FGF4 FGFR2
DNM2 GRB2
SRMS IKBKE
HDAC3 GTF2IRD1
EGFR SPCS2
HLA-B VAPA
SSR1 SSR4
FDXR FHIT
XRCC6 EP300
RANBP1 TNIK
RTCD1 HNRNPUL1
FANCC FANCE
VAMP1 STX1B
TGFB2 ARHGEF7
CDK1 RACGAP1
CP ATP7A
RAB27B SYTL4
SUMO2 CUX1
GABARAP NSMAF
RBX1 GPS1
CCDC33 UBQLN4
EWSR1 CPSF6
NUP214G3BP1
NFKB1 TUBA3C
GPRASP1 TAC3
PARP1 NCAPG
SCLT1 SCN10A
SNX3 USP10
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SRGAP2 YWHAG
YWHAG SHPRH
CDCA8 SGOL1
PDXDC1 GSTK1
TUBB4 NFKBIA
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YWHAE FAM13B
GAPDH MAP3K3
DNASE1 ACTG1
WNK1 TSC22D1

HDAC1 NR0B2
TIRAP DNAJC3
TRIM63 TTN
UBE2E2 RNF19A
RTN3 MAP4K4
MAP2K1 KSR2
SYMPK WWOX
NBN DDX1
HSPA1B MSR1
UBC HERC3
RBPMS C16ORF48
UNC13B WDR48
NR2F2 EP300
CKM TRIM54
VHL OTUB1
LRRC59 ATG5
DOK2 NCK1
ARNT ARNT2
RPL37AINSL6
CLNS1A ACTB
TFAP2B SYT4
IRF8 TRAF6
ATN1 WDR5
RPS6KB1 RPTOR
RGS2 SCN5A
RAC1 RASGRF1
HRAS VAV1
TLE1 CUL4B
DIAPH1PRPF40A
ERCC6 RNF11
MAPK14 TSC1
APPBP2RASSF5
EPHA2 CDH5
TNFRSF1B CLTC
SNRPE SNRPF
TP53 BCL2L1
TEX11 POM121
PARK2 PSMA4
DST TRAF3IP1
PARP1 POLA2

USP19 TMEM33
SIN3A CABIN1
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ERBB2IP SHOC2
TSC2 GRB2
PCM1 BBS4
MDFI ZNF607
CDC20 KRT32
STC2 PEBP1
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TOMM34 DMAP1
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SNRPE SNRPD3
RNASEH2A SMAD4
PSTPIP1 MYH13
SNRPE SNRPD2
SNRPE LSM3
SMAD6 HOXC8
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PARP1 WRN
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CSNK2A1 F11R
TSC2 RPS27A
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SLN PLN
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MME PIK3R1
LGALS9 JUP
SMAD1 PREB
PTK2 RBBP6
MET PTPRO
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CREB1 RPS6KA3
POLR3C POLR3H
MCC PFKP
IGHM CD79A
F3 FANCB
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AP1G2 AP1S2

GAPDH PDCD6IP
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HGS TRAP1
PPEF2 CALM2
GRB14 TNKS2
NGFR TRA2B
CSNK2A1 UBE2R2
LTBR TRAF2
HDAC2 NCOR2
NGFR GRB2
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RCN3 SUFU
HSPA5 EIF2AK3
SMNDC1 EWSR1
MAP3K1 RCN2
GCH1 CNRIP1
ERBB3 RIN1
CRP FCGR2C
CRP FCGR2B
BCAR3 PFKP
MAPKBP1 MAPK8
MAPKBP1 MAPK9
GNL3 LYAR
PTPN11 SLC6A20
EPB41 PSME3
CDC42 PRPF40B
ESRRA NCOA3
SELL GRB2
SKP1 RBL2
MAP2K6 MAPK14
COPS2 COPS7A
MED6 THRA
RPL8 FAM188A
TRAF2 TAOK3
TRIM27ZBTB16
EZH2 DNMT3A
ZNF598 FAM178B
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ACTA2 MYOC
U2AF1 CIR1
LEPR PTPRJ
BZW1 CDC5L
HSPA5 MTNR1A
CDH1 CASP3
KDM1AHIST3H3
TUBA4A SKA1
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CNTNAP2 MACF1
OSR1 EGLN1
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USP7 DCAF4
SKAP2 LYN
ETV6 SMURF1
ANXA2 PHB
JAK1 STAT6
RELA RNF25
JAK1 STAT5A
JAK1 STAT1
GOLGA2 MEF2D
IL1A CAPN1
FEZ1 SAP30L
PSME3 USP43
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TAF1 TAF9
MAX ZBTB17
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MDC1 MCPH1
SULT1E1 C7ORF64
ABL1 SHD
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DNM2 MYO1E
HSPB3 MED8

TAF6 TBPL1
BDKRB2 GRK6
IFRD1 TP53
SYNJ1 MYO1E
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EPHB2 PTK2
CISD1 PRKAB1
DAZAP2 BATF2
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UCHL1 VHL
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CANX PLP1
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SRSF2 POLDIP3
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ARRB1 PTH1R
YWHAG ZNF638
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TBP DR1
CPE INSL6
CYP27B1 MED21
CENPE NUF2
APBB1 WAS
FGFR1 NCAM1
KIF1B CPEB1
YWHAG NOLC1
CLTC PICALM
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ZNF473 DAXX
AP2A2 SMAD1
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DSTN IKBKE
DSPP ARID3A
SPTBN1 PJA1
RELA PYCR2
SSR4 HECW1
MYST2 POLB
SAP30 HDAC2
DAND5 POGZ
SMAD9 TRIM29
MAP3K7 ACTG1
LMNA YWHAZ

SMC2 DISC1
TNPO2 ELAVL1
CDKN2A ZFP91
APBB1 SFPQ
TRIP13 RBPMS
GATA1 ZNF521
LGALS3 GEMIN4
FASLG OSTF1
SETDB1 SUFU
RXRB PPARD
FOS SF3A3
GH1 EEF1D
AR ZMIZ1
HSPA5 DNAJC1
CDC42 NDEL1
PABPC1 PAN3
CDK14 RB1
GRIN2D DNM1
CDC42 EEF1A1
SIKE1 TBK1
CDH2 PKP4
PACSIN1 CABP1
SIX6 TLE1
ELOF1 CHMP6
SOCS3 CSNK1E
TLX3 DENND4A
RAE1 WDR26
TNFAIP3 WNK1
CHEK2 XRCC1
CASP1 NFE2L2
MYO1BCIAO1
C2ORF18 KIAA0232
RAB4A RABEP1
DAND5 MIER1
CS HLA-B
HIST1H3J CARM1
EPHB2 AQP1
SH3BP4NFU1
MRE11A USP11
CCDC47 GSTK1

PLCG1 LIFR
MAPT STUB1
ADRB2 RPF1
LEPROT LEPR
FASLG CASP10
NR1H3 SIRT1
UBE2D1 RNF4
UBE2D2 AMFR
CCDC85B RBM41
NCK2 DNM1
BLOC1S2 OSBPL9
SLC2A1PDIA3
NTS SORT1
AXIN1 CTNNB1
CYP27B1 TDG
BRCA1 MSH6
MOBKL3 MED31
RPS27AMARK4
IL2RA STAT3
XPO1 ANP32B
IL2RG JAK3
INHBB ACVR2B
HSCB BBS2
TRIM29TSGA10
PLG KLK3
RAD17 ATM
CDC45 ORC1
CDC45 ORC2
MCC EIF3I
DLG1 KCNAB1
CTNNB1 RUNX3
ZBTB16HDAC2
CYP27B1 SNW1
GDF9 SMPD3
ESR1 STAT3
UBA52 LAPTM5
UBE2D2 FBXO4
UBE2D2 FBXL3
UBE2D2 FBXW2
BCL2L1BAG1

PIK3R1 AKT1
AP2B1 FAM46C
TP53 RYBP
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HRK BAD
MCM4 HAUS1
EIF1B UBE2V2
GATA2 ZBTB32
SLC16A1 TSC22D1
G3BP2 STK24
PPM1A LXN
TNFRSF10A TNFRSF10D
SCT SCTR
LPXN PTK2
PTPN1 BCAR1
ARR3 AP3B2
NOS1AP LRP1
TLR2 RAC1
NCK1 MAP4K3
MAP2K1 PEBP4
GRB2 SHC3
ING5 KIAA1377
PTPN6 SYK
PTPN6 ZAP70
KBTBD7 PI4KB
DDX19A MIF4GD
PLXNA2 IFT80
CYBB NCF4
CREB1 SMARCA4
SRF RELA
PIN4 ASCC2
SDCBP CADM1
PRKAR1A UBE2M
FABP3 VPS28
PTBP1 PCBP2
PTBP1 PCBP1
IFNGR1 IFNGR2
SIRT1 MAP1LC3B
MTOR RPTOR
VAV2 MARCH7

MAPK3 TTYH3
SEMG1 KLK2
USP44 TBL2
RAC1 SPTAN1
LDOC1 CCDC85B
GYG2 IKBKG
TRAPPC3 C4ORF41
HNRNPA1 FRMD4A
EGFR PTPN2
YWHAH ZBTB17
GAS1 SHH
PVRL2 MDFI
SRC TRIP6
OTUB1 TNIK
CCT6A SUMO4
SRC TRIP4
CLTA CTNNB1
MAP2K1 TRIB1
SMAD9 CXXC5
MAP2K1 TRIB3
EGFR SHC1
EGFR PTPN6
PIP5K1C CDK5
IRAK1 RPS27A
HSP90AB1 RPS4X
YES1 EPHB2
SMNDC1 IFT88
COPS2 DDB1
AR HDAC4
SH2D1B ERBB2
FN1 MEP1B
PLCG1 WAS
GPI AMFR
SRC TRIP10
FN1 MEP1A
MARK2HDAC7
KAT5 UHRF1
SRC EPHA4
YWHAH MAP3K3
ACTR1A BICD2

NXN CHMP6
BLM TERF2
XIAP UBE2W
SRC TXK
NKX2-1 TDG
VCP VCPIP1
SRC ABL2
SRC SF1
TAF1 TAF8
SMAD3 SNW1
IL2RA NFKB1
SDPR NUDT18
ARCN1 COPB1
GOLIM4 GRB2
HMGA1NFYA
KLF4 CTBP1
GDF9 ADPGK
SUV39H1 ATAT1
RAD23B NGLY1
AURKAPPP1CA
WASL GRB2
ARAF CHD6
CDK2 MNDA
AIRE SRSF1
PTN SSR1
CUL3 NEDD8
RBX1 DCUN1D1
STK36 SUFU
APPBP2SCFD1
ARCN1 COPA
CFTR PPP2R1A
CFTR PPP2R1B
DNASE1 ACTB
CCNT1 CDK8
MME ADM
GRB2 WASF1
PSTPIP1 ANAPC2
YWHAB USP32
A2M LRP1
POLDIP3 USP20

XIAP TAB1
NACAP1 CTNNBIP1
PRRG2 RPF1
ELAVL1 SREK1
IL24 IL20RA
SH3KBP1 SH3GL3
SH3KBP1 SH3GL2
ACTG1 REL
PRPF4 USP4
SH3KBP1 SH3GL1
CDH1 PKD1
SMAD3 CAMK2G
HSP90AB1 RPS6
EFEMP2 UBQLN1
DDT IKBKE
CRX KAT2A
DAND5 SF3A1
LPHN1 SHANK1
MAF KDM5B
HNRNPA1 HNRNPH1
PFAS VHL
SYK FCRL3
SH3BP4CIZ1
GRB2 HSPH1
ATAT1 SMARCC1
TCERG1 EVL
SOCS1 VAV2
SIN3B SMARCB1
XRCC5 TCF4
TNFSF11 MMP7
TCEB2 SAP130
TP53 STAT6
TAF10 ENY2
CHEK2 BRCA1
SRC MATK
DEDD ATP6V1E1
GTF2F2 CRBN
CAST PPFIA1
ARHGDIA SET
LRPAP1 MTOR

MCM3 ARF6
ADRB1 GPRASP1
HNRNPC SMARCA4
TRIM28ZNF74
TCEB1 SAT2
KEAP1 MAP1LC3A
WHSC1 BRAF
MARK2MAP3K3
RARA NSD1
PRKACA MIP
UBE2D2 MIB1
PPM1B ANXA1
PFN2 ROCK1
ELAVL1 SRRM2
HERPUD1 EWSR1
EPHB3 MLLT4
DNMBPWASF1
CCT2 TBK1
GTF2F2 GTF2E2
LRRIQ1 HES4
GTF2F2 GTF2E1
KRT18 KRT72
ARID2 PBRM1
BRCA1 CREBBP
NEDD8 MAGED1
MCM2 DBF4
NBN TERF1
WEE1 YWHAG
ZSCAN1 NPAS2
EIF1B TSR1
HSP90AA1 CDK4
TFCP2 SMAD2
PRNP CSNK2A1
SHMT1 CSNK2B
TUBB4 IKBKG
TPSAB1 PIK3R1
SMAD3 HDAC1
HTATSF1 CCNT1
MYB FBXL5
CDC5L ZNF451

CASP4 SLC25A22
TFE3 YWHAG
STAT3 ELP2
NCK1 BAZ2A
NF1 SMAD2
RPF1 SMAD1
RPF1 SMAD2
TGFBR1 RAB33B
ATM IKBKG
CASP7 RAC1
HOXB6 SLC38A1
SNTB2 MAST1
ADSL DDA1
TP73 MAPK8
FASLG CASP8
UBAC2 LMO7
TRAF2 MYLK2
MAGEA11 DNAJC10
AR NLRP10
PLS3 TNFRSF10D
TGFBR1 NUAK2
VAV1 SH3BP2
ABL1 GTF3A
ORC3 LCP2
WDR1 GRB2
KAT5 CDK5RAP2
FAS CASP10
KDM5CHDAC1
SMAD3 PIN1
DHX29 CENPT
HDAC3 EP300
PTPN1 CTTN
LDLR CD36
USP7 DAXX
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UCP1 TOMM20
RBFOX2 RBPMS
ABL1 HCK
GMFB TRAF6
PDCD10 CTTNBP2NL

HSPE1 EEF1A1
ARL1 ARFIP2
NOTCH1 DLL4
IRAK1 IKBKG
PPP4C PPP4R1
VIL1 ACTA1
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MVK EWSR1
SERPINA1 RPS27A
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RPN2 EZH2
RPS6 MAP3K1
CXCL13 CXCR3
SMAD3 SQSTM1
ADA GRB2
FAS INPP5D
NCK1 DRD4
CLOCK RXRA
BRCA1 HDAC2
PRKCG NUMB
NECAB2 USP7
HNRNPA1 PABPN1
KLK2 SEMG2
DVL2 BAG3
IFRD1 HDAC1
RAN EP300
SAP18 DDOST
TUBB4 ROBO1
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COIL CCDC136
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NDUFS8 MLH1
UBE2E2 RLIM
SRF HOPX
CHEK1 CSNK2B
ZFP36 NUP214
CCT4 ACTB
UBE2L6 FLNB
EDN1 COPS6

HDAC1 TGIF1
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RAB5A CHML
VTN PRKACA
ZNF217 RCOR1
JUND ACTR3
HLA-B NUTF2
RAP1A RAPGEF5
PLXDC2 NCSTN
RPL11 SENP8
YWHAB PIK3R4
INPPL1 CBL
TGOLN2 CRK
MOBKL3 MED10
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GOLGA3 IKBKG
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CBFA2T2 PRDM14
HCLS1 BLZF1
POU2F1 CREB1
FAM175A BRE
TAF5L USP22
SKP1 CUL7
CAPN1 CDK5R1
TNFRSF1B SLC1A3
PXN PTPRK
GSTZ1 GSS
TAF10 ANLN
ZFYVE9 RNF11
SGTA SEC61B
PCMT1 PAK2
CDK8 MED21
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SFN KLHDC2

CDH1 CTNND2
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BTC ERBB4
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PTPN3 SFN
RBX1 SKP2
RGL2 CRMP1
PDE9A TRIM32
DNMT1 RGS6
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ZNF473 TRIM41
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MCC GOLGA4
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SNRPB GEMIN6
ZSCAN1 SSX3
ETV6 GRB2
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HDAC1 NCOR2
IKBKB RELA
NSF PRKAB1
RGS12 GNAI3
STX8 WDR91
PPIB CAMLG
MAT2A MAT2B
HDAC3 HR
HGS SCRNI
SUMO1 ZBTB16
EFNB2 PICK1
SYT13 NRXN1
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ANKRD24 PACSIN1
PIK3CB ALK

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CASP9 NAIP
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EIF4A3 RBM8A
ERBB4 HDAC6
FIBP FGF1
TRIP6 SYNGAP1
LY6H PPP1R16A
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CEBPE COBRA1
CREB3 HCFC1
PLXNA2 DHX37
ACVR2B SNX6
ASAP2 ARF6
IGF1R IRS1
RIC8A MAPK8IP3
TNFRSF10A DAP3
APC CCDC136
KCNA2 RTN4
RPF1 DHX30
U2AF1 NXF1
RAB5C DSTYK
HDAC3 SRY
GCGR BMPR2
RXRG ZNF148
PTPRC CD1D
BRCA1 SMARCD2
PRLR ZAP70
CDH13 ADIPOQ
CAPZA1 MAP3K3
ABL1 ATR
BRCA1 SMARCC1

DEDD APLP2
GRB2 FKBP3
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IFNA2 IFNAR2
PCBP3 TNIK
GLP1R ARRB1
CHRM2 SET
FAM40A PDCD10
PRNP DNMI
RALA FLNA
CCR5 PTK2B
HTR2C CALM2
YWHAZ NDE1
MAP4 GRB2
KHDRBS1 SRRM1
BCL6 ZBTB6
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MED7 SREBF1
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TCF3 UBE2I
IFNAR1 PTPN11
HRAS FNTA
NUP62 NUP54
EHMT2 LGALS12
CACNB2 CACNA1C
TUBB FNBP1
GADD45G EEF1A1
BAG6 MAGED1
MAD2L1 KEAP1
NAPA SNAP25
FN1 CD44
SRF MAPKAPK2
CFL1 NRK
RARA HDAC2
RBM10 SF3A2
COPS4 BTRC
BRCA1 CDS1
FGA KRT18

BCAS2 SF3A2
EIF3A UBA5
GADD45A GADD45GIP1
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SETD1A EMILIN3
MCM7 SMC1A
YWHAB YWHAE
MOBK3 PDCD10
SSSCA1NOC4L
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RARA CREBBP
CLIP1 TUBA4A
PCBP3 PTBP2
MAD2L1 IKBKE
COPB1 ARF1P1
CCT6A STK24
KALRN APC
ZBTB43LNX1
AKT1 YAP1
IFNAR1 TYK2
EXOSC4 MPP6
SFN KLC1
SPTAN1 RIPK3
SRSF11 SRSF1
SMAD9 GRN
ELAVL1 RPAP1
CDC27 CDKN1A
TCF3 ID2
TUBB NFKB2
WDR47 TCEA2
PABPC1 PAN2
MAP3K5 CIB1
IL22RA1 IL22
TOP3B FBLN5
AZU1 TTK
MCL1 PMAIP1
SPTAN1 SHANK1
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SLC4A3PRKCE
MYH7 NTHL1

CST7 CTSB
HIST1H4I CXXC1
ADORA1 P2RY1
MAPK3 TOP2B
USP39 SNRNP27
HDAC1 NR2E3
DRD3 MPDZ
MYB FBXW2
IL10RB UCN3
PRKACA SIK3
GEMIN5 GEMIN4
EIF3B EIF3I
DSPP PKP2
F10 HIST1H1C
FOXO3 PGK1
SYNCRIP SYT12
HNRNPH1 NCBP2
GABARAPL2 ATG4A
PRKCG RGS2
EIF2S2 CRMP1
SLC2A4IDH2
FZD9 WNT2
CEBPB STAT3
CCND1 DMTF1
STX7 NSF
F10 PRKAB1
TYK2 IL13RA1
PRNP ALS2CR4
YWHAB REPS2
EGFR EPHA2
MAPK8 MAP3K2
AIRE POLR2B
PSMD11 TRAF6
JAK2 LEPR
ATP1B1FXD7
HNRNPR CNBP
SFN BAX
RPS6KA1 MAGI1
ATXN2 RBFOX1
GLUD1 TRAF6

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CDH2 PTPN12
PTPRS KIAA1377
CTBP1 RBBP8
HSP90AB1 ARHGAP1
CFL1 ACTG1
TACO1 FTSJ1
UBE2U RNF181
GATA1 SMARCB1
HDAC3 CCND1
EIF4G3 VAV2
POLR1A RRN3
UBE2D3 RNF181
ACTA1 SPTAN1
SMAD2 CUL5
EIF4G1 UPF2
KATNA1 LIPE
CCT6A MAP3K3
SPRY2 MAPK1
H3F3B ASF1B
UBE2L6 TRIM25
NEDD8 NUB1
TBP CBX5
CIAO1 MCM3
CRX SP3
MEN1 SMAD1
POLR2C MED10
UBR5 CEBPD
KAT2B NPAS2
SMARCA2 CHD3
APAF1 CASP4
AKT1 PTEN
SIN3A SAP30L
G3BP1 C4ORF43
SNRPD2 STRAP
ZBTB16MAP3K3
DIP2A INHBA
PFAS TFE3
SEC31ASEC13
MED20 MED19

KBTBD6 MAP1LC3B
ITGB1 NF2
MAP3K8 TRAF2
SMAD3 SMAD4
ZNF205 CCDC85B
OTUB1 DDX23
USP8 CHMP5
SMAD3 ANK3
GPRIN1 DLG3
MED22 MED30
PRKCB MAPK6
HSPA1L RELB
SLPI NFKBIB
DAND5 TAF7
HRK C1QBP
FN1 PFKFB1
PIN1 G3BP2
SPCS2 DDX56
CAPN1 VIM
MAGEA11 UBE2D4
SNTB1 SCN5A
MYC HEATR6
TPP2 HLA-B
HSD17B4 NDRG1
ETS1 TSC1
HDAC2 NR2E1
PSMD11 UCHL5
CCK ENPEP
RB1CC1 MAP3K5
CFL1 PPP2CA
MYC HNRNPU
RIPK2 PCMT1
BIN1 PTK2
RHPN1 CNKSR1
EFTUD2 PHLDA3
GNAQ TUB
RPS6KB1 PPP2R2A
SMC1A STYXL1
PRKACA BTRC
EMP2 EPM2AIP1

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RNF4 UBE2W
MFI2 PDIA3
A2M PDGFB
HIVEP1 APTX
GSPT1 IKBKE
ESRRA LYST
EIF1B MAPRE1
ZBED1 UBE2I
HOMER1 ABI3
HOXA10 CREBBP
PRKACA PTBP1
SNTB1 KCNJ12
A2M NGF
LYN EVL
ARNTL DEC1
PITPNM1 PLK1
RPS27A KIAA1310
TRIM28 TNFRSF10D
NCK2 ATN1
GSTP1 PNO1
SAP18 C6ORF211
SOCS3 IGF1R
KALRN DISC1
TP53 MTOR
SFN WDR37
UBOX5 UBE2E2
APC2 ANAPC10
MYC CEBPB
MYBBP1A BAZ1B
PRKCB OCLN
CYP17A1 POR
GRB2 MST1R
GPN1 RUVBL1
ARSE COQ6
PLCG1 TEC
SKIL TRIM69
WNK1 CASP8AP2
PRKCG CASR
CCT5 PPP2R2C

PLCG1 ABL2
SMAD3 TMED1
YWHAZ PNKP
KAT5 TRIM68
FOS TRO
GRB2 CD164
H3F3B HIST2H2BE
FN1 COL13A1
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EIF1B TSN
LMNA CASP6
MCC RANBP1
RPA3 PARP3
PTN PIAS4
C14ORF139 ATG4B
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PPARG PSMD1
LDOC1 CEBPE
RPS27APKD1
HSPB6 YWHAG
IER3 MCL1
GDF9 PAFAH1B3
PRKDC BECN1
POU2F1TXNRD1
CD99 PPIA
MDFI ZNF426
ELOF1 C5ORF22
ZNF165 KRTAP4-12
SMAD3 MECOM
LRP10 HTRA1
UBE2D1 DTX3
MED6 MED28
GDF9 LSM3
HIVEP1 MAPK14
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NCK1 TBK1
MEN1 FOXN3
NCL RRP1
PRKD2 PDLIM7
ABL1 WASF1
IRS4 HSP90AA1
DDOST STYXL1
PCMT1 ATG5
ARHGEF15 ESRRG
YWHAZ FAM82A2
NAP1L1 TRAF6
HDAC4 BCOR
PSMD7 PSMD2
EIF1B SOAT2
SKP1 MYC
ABL1 NCSTN
THOP1 CALM2
HIVEP1 RAB1A
SLC9A3R1 SLC22A4
TNNI3 TRIM21
TNFRSF1B HNRNPU
E2F3 RNF144A
SMYD2 SMC4
EIF4G1 MKNK2
UBE2W RNF26
NBN BLM
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GHR PTPN12
GRIN2D RPS6KA3
EIF1B OTUB1
RPS6 PAK2
TAF1 TAF12
SMARCA4 REST
LCK PLCG1
EEF2K MAPKAPK5
SELPLG SNX20
RARA RXRG
MAGEA11 POLR1D

EHBP1 PACSIN1
APIG1 AP1S1
RUNX3 SMAD5
PAK2 YME1L1
NCOR1 DZIP3
ADAM33 UBQLN4
MCF2L SMAD2
DDB2 DDA1
LCK SH2D2A
NR1H2 SIRT1
LRRC47 USP32
CSN2 TOLLIP
RAC1 SH3RF1
PRKACA PKIG
DCTN2 DISC1
RANBP1 IKBKE
WNK1 HDAC9
AIRE ABL1
SVIP VCIPI1
SOCS2 SOCS1
GRB2 TFAP2B
TCF21 HOXB6
IKBKE LARS
PRKCG GSK3A
SMARCA2 SMARCB1
HNRNPL TMBIM4
MRPL2 TRIM63
ITGA6 PRKCD
PCNA TIMELESS
CAPN2 BID
GNB4 GNG12
TNNI3 TRIM63
CTBP2 ZFPM2
ILK PARVG
ILK PARVB
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ATF2 CEBPG
CDKN2A PLEKHA8
AP2B1 CLINT1
HNRNPM NFKB2

RAC1 C3ORF10
APP MAPT
TOMM20 TOMM22
MAD2L1 ESR2
SBK1 PACSIN2
MTA1 HDAC1
HAP1 ATP5J2
LPA MMP12
RBX1 PGAM5
FBLN2 COL4A6
RCAN1 MAP3K3
PTP4A3 SSR4
INSR CALM2
MEF2A MAPK7
PLD2 CAV1
CCR6 CCL20
NCK1 SLC23A1
CNBP NCBP1
RPS6KA3 CREBBP
ERBB2 STAT1
CDK4 SMAD3
PFDN6 MAP3K3
RXRA NR1H2
PCBD1 MAP7
PAXIP1 ZBTB8B
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DNM2 PACSIN2
CREB3 CCR5
HBM WNT1
AGAP2 HOMER2
HIF1A CITED2
UBE2E2 TRIM39
LMO2 RLIM
PSEN2 CTNND2
MAPK8 IL27RA
PTBP1 HNRNPK
BRCA1 RAD50
STX6 VAMP3
RPN2 ARF6

SREBF1SUMO1
FXVD6 HAUS2
CASP6 NUCB1
MAP2K2 MEPCE
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NCOR1 RUNX1
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CIAO1 GAS8
PRKDC DHX9
AGL PRKAB1
NR1H3 ING3
CDKN2A MCM6
GF11B RCHY1
MTHFD1 CDK2
AR GSK3B
TXN COPS5
AR GSK3A
HIST1H4I DAXX
AKT1 MARK2
GABARAPL2 IRGQ
TCEB1 ASB9
EIF1B TKT
SUZ12 EZH2
ACTN4 ITGB1
CASP6 CASP8
TCEA1 SUPT6H
HCFC1 ASCL2
BUB1 CASC5
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USP11 IVNS1ABP
RAD51L1 H1F0
SMAD9 EXPH5
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GAS1 DLK1
SFN ARHGEF16
CYBA MDFI
EED VAV1

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TNFRSF21 TRADD
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GTF2B CREBBP
SRC CD46
IFI35 CLEC4G
ESRRA TRRAP
GNB2L1 RASA3
ABL1 SPTAN1
NBR1 MAP1LC3C
FHIT UBE2I
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JAK2 G3BP1
LPL EMD
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SKIL THAP5
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ITCH NDFIP2
DLG1 KCNJ12
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RUNX1 HDAC2
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CAV2 GOLGB1
DKK3 UBQLN4
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PCNA FEN1
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FN1 GRB2
ESR1 DDX5
ACVR1B SMURF1
MAPK14 COPS5

EIF4E2 TRAF6
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BAG4 TNFRSF25
APOE ALB
SPTAN1 PIN4
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PXN PTK2
CALR TRAF6
CPN1 CLEC4G
POLR2F MED29
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DNM2 FCHSD1
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PML RPS27A
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TOR1A CNIH4
ARL2 PPP2R2C
CIAO1 TUBG2
FGR ARRB1
HMGB2PRKDC
RUNX1 CREBBP
PEX19 PEX13
RUNX1 MYST3
NPBWR1 NPB
GH1 PRLR
ITGA4 ICAM4
GDI2 PAK2
CEBPE ALX4
YWHAQ ELAVL1
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TUBGCP4 PHLDA3
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PRTN3 SERPINB1
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NANOS3 BDKRB2
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PRR4 MUC7
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NPHP1 TNS1
CSNK2B MAPK14
YWHAH WDR20
LSM1 EXOSC8
GNAI2 GNB1
CD3E EPS8
KCNB1 KCNV1
DLG1 SEMA4C
TUBB4 ARHGEF7
EIF3E GPBP1L1
FLCN FNIP1
PSMD4 RASSF8
HAUS6 HAUS1
HDAC3 DAXX
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POLR3D POLR3B
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SNRPE DDX20
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DLG1 TANC1
TRAF2 IL15RA
SNRPE WDR77
TUBB4 IKBKE
DLAT PDHB
SKP1 CENPE
GTF2E1 TRIM29
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BAG6 SERP1

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EIF31 TRAF6
TRAF2 RIBC2
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FCER1G CLEC4C
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AQR USP28
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CRK SHANK2
MTHFD1 CCNA1
TJP1 CNKSR2
DDX5 HDAC1
TCEA2 KLC4
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UBE2V2 IGSF21
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SOCS7 SEPT6
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TGFB1 LTBP3
AP2B1 OSBPL10
ARL2 ARL2BP
XPO7 GSTK1
NCK1 ASAP1
FUS MAP3K2
MAPK8 SMAD2
TRAF2 MAP3K1

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SKIL PLCD3
USP7 ZMYND8
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DDX5 PIN1
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TBP SPIB
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MUC1 GRB2
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NCR1 CD247
RBBP7 TRAF6
PER2 PER3
CCNK CDK2
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SNRPB2 SMYD2
SKP1 ZC3HC1
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FBXW4 C20ORF94
RAC1 INPP5F
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PPARD HDAC7
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MAP2K4 MAP3K4
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MLL2 RBBP5
MAPK1 CDC25C
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CYB5B HLA-B
MUC4 TOLLIP
HDAC3 SUV39H1
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IRF8 SMURF2

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PRKCB GNB2L1
SHMT2 UBA5
UBE2D2 STUB1
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EPS15 CRK
SRSF2 UBQLN4
HDAC1 SMAD2
CTNND1 COL17A1
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DCLK1 MYC
DST CBF3
ELF3 EWSR1
PSMB6 UCHL5
POLA2 RBM23
PTK2B DPEP2
XPO1 APC
TCF3 SMARCA4
RNF4 PATZ1
GRAP GAB2
SRGAP2 ROBO1
GTF2F1 MEPCE
POLR2C RPAP1
HGS DLG4
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HDAC3 CBFA2T2
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ADD1 CALM2
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MEF2C C9ORF123
GOLGA2 ZNF594
BCR VPS28
LIN7A MPP6
GKAP1 UBQLN1
CACNB4 MED31
FLNA MTNR1B
IL1B IL1RAP

SHC1 IL6ST
ABL1 SCARF2
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TBX2 LZTR1
SMARCA4 IKZF1
PDCD6 TSG101
PNP INSL6
MAP2K7 CFLAR
KCNMB1 EWSR1
PTPRN UBQLN4
PPP2R1A AKT1
SLC35A2 MDFI
TECPR2 MAP1LC3B
UBC RAD23B
VIP MEOX2
VAV2 SH3BP2
SRF MKL2
SGK1 CD40
FUS MAX
PPP2R1A SMAD3
MTUS2 ZNF655
DLL1 ADAM10
STXBP3 SIP1
MAP1B MINK1
HIF1A NDN
ACTN1 PSEN1
TSG101 GGA3
CEBPD RELA
STX6 PTPN9
KDR P2RY2
GSK3B XPO6
PCNA RFC2
CUL4A SNRNP40
LMO2 EHMT2
PCNA RFC1
ABL1 DDB2
C3 CFHR3
CNOT3 CNOT6L
CYB5A CYB5R3

MCM7 FHL2
NXPH2 NRXN1
UBR5 PGR
AHCY PINX1
PDCD6 CPNE1
APLP2 APBB2
SMAD2 PARD3
JARID2 EHMT1
HDAC1 BRMS1
SMAD2 PARD3B
PRPF6 TXNL4B
MCC TBCA
ACTN2 PALLD
ATF2 CSNK2A1
GSTM3 MPG
ESR1 TRIM59
SH3KBP1 PDCD6IP
SPRR2A DLG4
PDK1 RPTOR
SRC ACAP1
GBAS NPEPPS
TIMM50 NFKB2
GNA11 HTR2B
GLRX3 PRKCQ
RPS27ATTYH2
JAK2 OSMR
FZD7 DLG4
GMPS IKBKE
IRAK1 TRAF6
HSP90AA1 MARS
ZNF423 EBF3
NUP62 NFX1
SRC SNX17
SKIL ASCC3
AIFM1 MAP3K3
SMAD9 DST
PCNA RFC4
JAK2 IL12RB2
TLE1 RUNX2
CTSG IGFBP3

SOS1 SNX18
ARNTL SIRT1
CDK1 RCC1
GYS1 PRKAB1
HLA-B SRC
SIN3A TAF9
C4ORF14 NFU1
GOLGA2 HTRA1
VAV2 SRPK2
RUNX3 PHB2
CIAO1 HELLS
ERBB3 CSK
TUBA3C PFDN5
SGK1 MLLT3
FBN1 MYOC
SRC FHIT
MGEA5 SPAG5
SHC1 MPL
SNAP23CFTR
RRAS RASSF5
SPERT TUBGCP4
BMPR1B SRGAP1
BUB1B HDAC2
ARPC4 ARPC5L
VAV2 CCT2
SLC2A4SERPINH1
UCHL3 COPS5
BEGAIN ZFP64
ACVR1B SMAD2
PIP4K2B RNPS1
GFER COPS5
PPP2R1A FTSJ1
UCHL3 CLPB
RRP12 MAP3K14
SH3KBP1 BLNK
BNIP3L BAD
FLT3 FIZ1
MAGEA11 ZNF655
ZNF33A WNK1
PHYHIP C14ORF1

SUV39H1 CNTN2
SHMT2 PRKAB1
ZFY ZBTB9
JAK2 STAM
EXOSC2 EXOSC7
PFDN6 PFDN5
GFRA1 NRTN
WNT4 SFRP2
PAFAH1B2 ASF1A
SMARCB1 ING1
PDK1 PDK2
RRAS2 RASSF5
RECQL4 RAD51
MAGEA11 C10RF65
KIF5B SNAP25
HMOX2GPRASP1
GABARAPL2 DYX1C1
SKP1 FBXO15
HLA-DQA1 INSL6
UBE2U CGRRF1
CD28 PIK3R1
ZNF207 WBP4
TOP2B HDAC2
NRAS MLLT4
ERBB2 PTK2
CDH2 ARHGAP32
AHCYL1 WDR48
SIAH2 PIAS1
ESR2 SMARCE1
XRCC6 C9ORF46
MTIF2 ALK
YWHAQ NCOA1
RPS6KA1 CREBBP
ERCC8 XAB2
VDAC1 BAK1
CDK2 ID2
APBA2 NRXN1
NEK9 NEK7
FLNA ERBB3
SIAH2 PIAS2

EGFR ERBB4
GAPDHRPA2
SLC25A5 TRAF2
RING1 BCOR
SOS1 RANBP9
TPM2 MCC
SYT7 STX1A
NFKB1 HSPA1L
NFKB1 HSPA4
PRKAR1A PDE3A
RPS6KB1 PPP1R9A
XRN1 SMARCD2
CCDC85B C8ORF48
POLR3D POLR3E
CCT3 PPP4C
RARA NRBF2
DNAJA1 SRRM2
FBP1 ASCC2
HIF1A HDAC6
BMPR1A BMPR2
RELB HDAC6
SQSTM1 GABARAPL1
RB1 NCL
TRIM37EWSR1
CCNK RBPMS
PLSCR1EWSR1
TFE3 SMARCE1
TPR NUP98
MECP2 SMARCE1
UBC RIPK3
AMFR UBE2D4
SRSF9 HABP4
CYFIP1 WASF1
CASP3 EIF4G2
NADK YWHAZ
HSPB1 MAPKAPK2
NRAS PIK3CG
HHEX KRTAP4-12
MAPK9 COPS5
PDGFRA PIK3R1

MAPK3 ID2
AIP PPARA
MTNR1B VPS35
CDCA8 RCC2
PRMT1 HNRNPUL1
EIF1B RPS28
PTP4A3 TBC1D15
CCL22 DPP4
FYN ITK
PRPF8 SRRM1
PSMD2 PSMD6
MYO1BTSC22D1
CBL YWHAZ
TIPIN TIMELESS
ACTG1 RELA
SHBG ACTA2
ARPC2 ACTR3B
XRN1 UPF1
SKIL PIAS4
SUPT3H TAF10
CIITA HDAC1
VDAC1 FSCN1
CHEK1 CDKN1A
EPOR CISH
MMP14 GOLGB1
EP300 SNIP1
VTA1 MBIP
PGAP3 GPRASP1
GABARAPL2 DNAH7
SCAMP1 EGFR
HAP1 PCM1
AHCYL1 JOSD2
SAP30 CHD4
MAP3K8 HSPA1B
IPO5 FBXO33
KRT1 MDM2
EXOSC10 EXOSC4
SMAD2 USP9X
FHL2 FHL5
NCK1 PNMA2

AHR CUL4B
EIF4E2 ARIH1
ZNF142 MAPK14
EPHX1 FBXW7
MYST1 MSL2
PARP1 H2AFX
PHYHIP NDRG1
SRRM2 RBM8A
MBP MAPKAPK5
HDAC2 TCF19
SORBS3 RBMX
ISL2 LHX3
PTPRZ1 TNR
RPS27ARNF11
EIF3J EIF3A
TICAM1 IRF7
CD19 PIK3R3
PPP2R4 CCNG2
PAK1 SH3KBP1
MAPT CAMK2A
SPRR1A ACTA1
SUMO1 PLK3
DDX42 RUVBL1
RNF7 UBE2D4
SDC1 SDC2
HDAC2 RUVBL2
HDAC2 CDYL
MEOX2 SAMM50
PDCD6IP TTF2
HRAS NF1
RECQL5 TIMP1
SMYD2 IGF2BP1
CCDC85B CWC25
XPOT MAP3K3
KCNJ4 PRKCD
UBE2I IKZF3
MLLT1 CBX8
GDF9 TRIB3
GRINL1A MYO9A
SMAD6 CTBP1

UBC TRAF6
NCK1 P2RX7
TNNI1 TNNC1
MAPK8 DUSP16
FBXL18MDFI
BCL2 NAF1
HNRNPA1 ARHGAP23
TGFB1 DPT
RPS27ASLC10A2
RBL1 CDKN1C
C16ORF48 PDLIM7
KCNA4 DLG1
NUPL2 PRKCD
PSMC2 USP14
NPHS1 SRC
RAP2A ARHGAP29
APC DLG3
RAP2A RASSF5
APC CREBBP
HNRNPC UBE2I
RAB5A RABEP1
SRC LRIG3
CSNK2B OCLN
WDR48 IWS1
VAPB STX1A
UBE2D2 RNF26
ZNF423 WNK1
GTF3C1EZH2
CNP TUBA1A
DDX42 RUVBL2
NBN RAD50
OPTN TBK1
PRKCA TNP2
FSTL1 ACVR2B
SUN2 FBXW11
MET BAG1
SNRNP200 EPB41
DDIT3 LDOC1L
TEK PTPRO
IFIT3 IFIT2

NPPA MME
HCK RASA3
HNRNPA1 CDK9
INSR ARHGAP26
ST13 TNFRSF14
THRB CCND1
PRPF40A XRCC6
RB1 PPARG
TRAF2 FADD
SMARCD2 TP63
ANP32A ATXN1
SART3 MLF1IP
LYN PILRB
CYP27B1 HDAC2
PAXIP1 RAD50
CAT PTPN11
CCR2 CCL7
VEGFA PGF
HMGA2PRMT6
NFKB1 CARM1
NR3C1 HMGB2
COPB1 PRKCE
SCAP SREBF2
RPS27ADLG1
MYBL2 CCND1
ARNTL CSNK1E
TUBB2A DISC1
AIRE KPNB1
CHD3 LUC7L2
TG HSPA5
VEGFA VEGFB
ELF3 TAF9
TAF4 TAF7
TAF4 TAF11
TP53 PIAS4
TAF4 TAF13
HTR2C DLG4
SLC6A3EPN1
TAF4 TAF5
LCK SH2B3

TRAF2 CALCOCO2
CYB5A CYP1A1
TEX11 CCDC11
MRPS6 INSL6
AMFR UBE2D2
TP73 CCNG1
SBK1 PACSIN3
CHD3 GIT1
SPTBN1 ATF7IP
TSC22D3 PLEKHF2
SYT1 CFBF
MPG SET
ATN1 LTBP4
RPS27A TRAF2
ZFYVE9 SCYL2
UBE2U RNF139
CCR2 CCL8
MYH9 CXCR4
DNALI1 EPS8
USP13 CACYBP
RFX3 TRAF2
AR DENND5A
RGS9 GNAT1
PLCB3 TRPM7
NLGN2 NRXN2
CYP27B1 CREBBP
COL2A1 MMP13
BUB1B SNCG
NANOS3 AGTR1
CIRBP LYAR
MAMSTR MYOCD
UTP3 ZHX1
MCC CUL2
ACTB CCT2
MCC CUL1
ITGB1 TIMP2
PLXNB1 MLL
RNF4 UBE2T
PHYHIP S100A13
VASP ERMAD

OPTN EBNA1BP2
EFTUD2 PRKAB1
SARS TNIK
DSPP RELB
GANABTNFRSF10D
RPS27A POLI
ETS2 TWIST2
ABCC9 KCNJ8
USP39 NOC3L
HIST1H3J SIRT7
TBC1D4 YWHAG
RHOA ARHGEF4
RHOA ARHGEF3
CDC25C PIN1
YWHAB EMD
EIF3B UPF1
CASP9 XIAP
UBE2T AMFR
BCL3 BARD1
PSMC2 PSMD5
RAC1 IQGAP2
CDC42 RHOJ
SERPINA3 KLK2
CDC42 DEF6
EGFR GOLT1A
SLC9A1MDFI
ARRB1 CCR5
UBE2I ZNF646
DNAJA1 SRRM1
PTPN11 MAP3K4
PLSCR1 ATG12
LIMA1 IKBKG
FASLG BTK
HAX1 PKD2
JAK2 GRB10
FLNA CDC42
MCC FHL1
MAGEA11 TCEANC
HIST1H3J SPHK2
COG7 COG5

EPRS RELB
CSNK2A1 PIN4
LSM3 SNRPD3
FGFR1OP PPP2R1B
TCEB1 SERTAD1
MMP3 CCL13
UHRF1 DNMT3A
SNAPC5 NMI
TAF1 GFI1B
APC2 ANAPC4
RECQL5 RAD51
APC2 ANAPC5
APC2 CDC23
SNRPD1 SF3A2
SNW1 TRIM15
RELT STK39
RAB26 RPH3A
TXNL1 UCHL5
ALB PON1
ITGA4 ITGB7
MRE11A MDC1
BCL2 BCLAF1
HSP90AB1 IKBKE
PLG APOH
PFN1 MLLT4
PTPRM PTPRK
MTA1 ITGB3BP
ARRB1 IRAK1
TRIM5 UBE2D4
SNRPA C19ORF43
KRT7 PCNA
CHEK1 CDC25A
CHEK1 CDC25B
PHC1 SCMH1
CASP3 PSME3
RPS27A STUB1
CCDC47 PHLDA3
RAN NUP50
MAGEA11 RPS27A
CCND3 EFEMP2

YWHAB MAP3K5
ESR1 BRCA1
CASP4 MSH6
ACTB ABRA
PLG FN1
HLA-DRA CD74
PRKACA PKIA
KLHL18 COPS5
NCK1 TNIK
PLSCR1CRY1
CCDC85B CHCHD3
CDK5RAP3 DHX36
MAPK8 BCAR1
UBC USP15
AKT1 THEM4
CFTR HDAC6
EPN2 LAPTM5
GAS7 SFPQ
CIAO1 COPB2
ACTB FHL3
PEBP1 PAK2
CHEK1 CDC25C
ABCF3 ACIN1
N4BP2 CREBBP
RAN NXT1
AIFM1 TNFRSF14
PTK2 UTP3
PDPK1 PA2G4
CASK CADM1
OPRK1 RPS27A
BCAR1 CDC42
CALM2 MINK1
HADHBDDA1
YWHAB LYST
TERT XPO1
MAPK1 HLA-B
PRPF40A ENAH
UBE2D2 DTX1
RFX5 HDAC2
RPL5 TNIP1

FAT1 ENAH
MEN1 CXXC1
MYC TFAP2A
CALM2 TTN
HSP90AA1 EIF2AK3
CCNG1 PPP2CA
FGFR3 CTSO
PRNP FHL1
EIF3I USP3
SMAD9 PPARD
FAT1 HOMER3
TOR1A SNCA
UBE2D2 DZIP3
SEMG1 PRKCA
MEOX2 HSPA2
LSM3 LSM6
ACTN4 MYOZ2
CDC42 CDC42EP1
CDC7 MCM2
NSMAF MAP1LC3A
INGX SUDS3
DST NFYC
FOS MATR3
PAFAH1B1 CENPF
F2RL2 NCK1
IKBKB NFKBIA
OMA1 LDLR
PDCD6 PDCD6IP
HGS TUBB
TCP11L1 IKBKG
LCK CBL
PIM1 HIST3H3
PARP1 HDAC2
DPM1 TSC22D1
MBTPS2 ATF6B
ASCC3 G3BP2
WDR48 PPP1R9B
SULT2B1 ALS2CR12
OXSR1 PAK1
PRTN3 RELA

COL3A1 CAPN1
ADD1 ADD2
VTN TGFB2
NCK2 EGFR
VPS72 RUVBL1
INSR PTPRB
LCK GAB2
TEC BTK
INSR PTPRG
MITF EP300
ATP2A1 IRS1
ARPC2 SNRPD2
ARPC2 SNRPD3
PSMD11 FAM190B
UBE2D2 RNF130
ARPC2 SNRPD1
MAPK1 IQGAP1
FANCA ZNF24
LCK CTNND2
GCLM ARF6
SS18L1 EP300
SMARCA4 KLF1
RARA NKX2-1
NPPA RORB
TP53 PTGS2
STRN CCT6A
FYN STAT1
KRT18 RHPN2
CDK1 CDKN3
NFKBIE ANKRD28
VTN COPS5
PTPN1 COLEC11
GRIA4 CAMK2G
SMAD1 FHL5
PTPN1 CLK2
RFC2 CHTF8
PFN2 PTPRS
BMPR1B RAB25
PKM2 HERC1
PRKACA CAV1

ZFYVE9 PPP1CA
ATAT1 EHMT2
CNOT3 CREBBP
ANXA3 UNC119
ANK1 NBPF3
FASLG CACNB3
ZFYVE9 PPP1CB
EIF4E EIF4B
PRKCQ RASGRP3
HDAC3 BCL11B
EPB41 YWHAQ
SPOP RTN3
CD2BP2 SF1
STK3 RASSF3
PLSCR1HEY2
MAGEC2 USP7
CCNB1 PTCH1
FN1 SREBF2
EIF1B UCHL5
EIF4A3 UPF3B
RRAGBRRAGD
SREBF2OS9
DYNLT1 Bmpr2
Bmpr1B RAB38
STX1A FAM190B
UBE2D2 RNF150
CRIP2 GATA6
CPSF4 CDC73
NGF SORT1
PTPRC TNK2
ST13 GABARAPL2
CD4 CCR5
ZNF24 UBXLN4
NCK1 ERBB3
PPIL2 CRNKL1
RARA SNRNP40
PPP1CCHDAC8
PRKDC NCOA6
POU2F1POU2AF1
Rbfox2 DMRTB1

WWC1 FEZ2
PRPF40A MAP1LC3A
CDC42 CDC42EP4
FOS BATF
DDX6 EDC3
PSME3 ZCCHC10
CDK2 CNTN2
MCM3 TSC22D1
NCK1 FRS2
FNIP1 MAP1LC3B
TUBA3C MAP3K14
GNG12 RIPK3
GNB3 TGFBR1
STX5 SCFD1
OTUD4 KRT31
GAPDHLAMA4
ETS1 CREBBP
VAMP7 PHLDA3
SGCB SGCA
CHRNA5 CHRNB4
UPF2 EXOSC1
HIST1H3J ASH1L
MUC5B MAP4K5
COIL SCYL1
TALDO1 ARF6
ACTA1 HDAC1
ASS1 AKTIP
TARBP2 TGIF2
AP2B1 AP1M1
ATXN1 KAT5
BMPR1A RUNX2
PSMA7 IKBKE
RPS6 NCBP1
HNF4A NR1I3
ACAN TNFAIP6
CUL2 PFKFB3
HRAS GPSM2
MAGEA11 TCEA2
FTH1 UBR1
CACNA1B PDLIM5

KIF5C MAP3K3
USP49 MED18
YWHAQ MED1
SUMO1 FZD8
FAM40A SIKE1
PML BANP
POU2F2RXRA
IRF7 ALK
TCEB1 PINX1
PAFAH1B2 ZFP36L1
DST DTNBP1
FLNA DRD1
MRPS16 PRKAB1
S100A4 MYH4
ZFAND5 RIPK1
POLR2C ITCH
SIN3A BRMS1
PRKCB RRAD
APC KIFAP3
RFC2 CHTF18
INSR JAK1
BIN1 DNMI
MAPT PRKCD
TRIM23MLH1
TNNI3 RCAN3
SNAP29STX1A
HSP90AA1 PIM1
PLSCR1C10ORF62
ACTN4 MYOZ1
INSR SNX6
THOC5 THOC1
PDIA2 P4HA3
GABARAP TFRC
UBE2D2 TRIM55
PARK2 CDK5
ECHS1 GABARAPL2
TOB1 SCMH1
VWF ITGA2B
PRKCE PPP1R14A
CA12 C15ORF29

NCK1 RYR1
PHB SEC61A2
HNRNPC DHX9
EGFR CASP1
PRNP MPG
CASQ2 TRDN
FOXO3 SIRT3
SRPR SSR2
RELN LRP8
EEF1D GARS
ETS1 TCEAL3
PDE9A PHYHIPL
SFSWAP RNPS1
ELF3 FSCN1
HSP90AB1 RPL5
LSM1 NARS
RAD51L3 EFHD2
NGFR NTRK3
USP7 PPIL4
EEF1A1SRRM1
HDAC3 SKI
PTPRC ANP32A
RHPN2 CNKSR1
DCTN2 IKBKE
DHX36 ACP6
PARP1 CREBBP
BCL2 MAPK3
MYO1CBAZ1B
LCK IL2RB
DPM1 MAGED1
IDE ZHX2
PPP2CB CCT7
SCNN1A NEDD4L
XPO1 BECN1
CTNBL1 PRPF19
EIF1B RHOB
MAPK10 DUSP10
ACTN2 GPRIN1
RPAP3 UXT
NLRP3 CARD8

PXN PTPN12
HMGB2 APEX1
CHD3 SLC27A6
SUMO1 HIPK3
ARHGEF7 SCRIB
ARHGEF7 GIT2
NPM1 HDAC1
GZMB PRKDC
RALA CALM2
SET WDR48
GOLGA2 TRIM29
REST SMARCC2
GABARAPL2 RASSF5
APC MACF1
TIE1 MDFI
IGF2R GGA1
IGF2R GGA2
NTS MEP1A
CCDC85B PSMF1
FXR2 RBMX
SRC WAS
ENO1 YWHAZ
TRIM63 MYOT
ADRB1 MAGI3
BCR MAPK6
ERCC5 EWSR1
XRCC6 SRRM2
DES S100A1
CUL3 CAND1
GRB2 RAB8B
ACAN FBLN2
MTUS2 RIBC2
GRB2 SMARCC1
GRB2 SMARCD2
FGFR1 CREBBP
NR4A1 SMARCE1
GRB2 RAB1B
SUMO1 HIPK2
AXIN1 GSK3B
AXIN1 GSK3A

SMARCA2 SMARCC2
KLRC4 ULBP1
TRAF2 BIRC2
PTP4A3 PCNA
TRAF2 BIRC3
CBX6 H3F3B
EXOC3 RALA
CDK8 CCNH
DRD2 NSF
HSPE1 ZHX1
PLK1 PIN1
IKBKAP SNAPIN
CSNK2A1 CTDP1
A2M RAD23A
PPP1CCPPP1R8
PIK3R1 YWHAZ
AIRE DDX17
GRB2 MAP4K1
PRNP APLP1
CTSG F5
EIF1B UBAC1
TP53 COPS6
IRAK2 TIRAP
UBE2D2 RNF126
IPO13 RPL5
GRB2 KCNN1
GABARAPL2 TP53INP2
EEF1A1 TSPYL2
EIF4E EIF4ENIF1
XPO1 SERTAD2
GRB2 GCDH
GRB2 FOXJ1
GRB2 RGL2
FAM190A NDEL1
IGF2 INSR
HLA-B PFKP
A2M CTSB
CASK PRKD2
GRB2 KHSRP
NR3C1 CHD9

TARDBP XRN2
CDK5RAP2 SENP2
TFAP2A YY1
MYBL2 CCNA2
S100A10 TRPV6
ILF3 NDRG1
CRK SNX7
SSSCA1LRRC7
SKP1 FBXO17
FYN BMP8B
COL8A1 KLHL12
CAPN1 RCAN1
IKBKE PHB2
GRB2 EXTL1
PHB2 COPG
GRB2 BAD
CBX5 SUV420H2
GRB2 PTPRN2
BCL6 PPARD
TCEB1 ZYG11B
RRAS2 RAPGEF4
STXBP3 SNTG1
CASP1 BID
SRC GAB3
SNW1 DAXX
IMMT C10ORF88
PCNA POLQ
CLNS1A LSM11
GRB2 TNPO1
PPFIA2 PTPRF
EIF4E SMYD2
DSTN PINX1
GGA1 SYNRG
PCNA CDK5
GRSF1 FTSJ1
STYX CARHSP1
IKBKB PPP1CA
PCNA CDK6
PRKCA ATP2B2
USP32 MRPL39

PRKCI GABARAPL2
F2RL1 COPS5
GRB2 SNAPC3
GRB2 PEX13
HDAC3 RBBP7
GRB2 RIT1
GARS YWHAZ
CDK1 RRM2
EGF S100A4
XRCC5 VAV1
TNIP1 RBFOX1
TKT ATG5
TRIM63 UXT
ABL1 TERF1
PHYHIP PPIE
MEGF6 ATN1
GRB2 TNFRSF14
GRB2 PRG4
ARFIP2 ARF3
GRB2 KCNB2
GRB2 SLCO2A1
PICK1 LRP2BP
GALNS NEU1
PRKAG1 PRKAB1
LTF NDUFA2
HDAC1 EZH2
CAPN1 INPP4A
CASP1 PLA2G4A
INPP5D CD300LF
PDGFRB GAB1
MS4A2 PRKCD
TGFB1 ARHGEF6
SRC PTPN18
JAK2 IL2RB
NOL3 CASP2
TTI1 TELO2
IKBKB CALM2
CPNE4 UBE2O
ERBB2 PTPN12
PLCG1 CAST

EIF4E EIF4EBP1
TLE4 CUX1
CDK2 ID3
CD4 CD53
PCBD1 WWP1
MAPK3 PTPN11
EIF4E EIF4EBP2
GRB2 DLX4
AIP TNNT3K
BTK KHDRBS1
C1R SERPING1
EXOSC8 MPP6
PARP1 HIST1H1C
VTN IGFBP5
RTN3 UGCG
PTK2 MAPK8IP3
NUP37 NUP85
TPT1 MLC1
SMAD3 CDC16
CALM2 REL
RFC4 RPAP2
ELN FBLN2
ITGA7 MYOC
SRSF1 LNX1
RPS27AHDAC5
CDC42 PLEKHG2
AP1M1 KIF13A
HNF4A PROX1
CALM2 TRAF6
CCT5 CDK9
RHOC MCC
GRINL1A ZNF410
PTPRC CD79A
RAD23A PSMD1
NOL4 CTBP2
MTSS1 CTTN
YWHAZ KLC4
TNNC2 TNNT2
ARF6 CYTH2
CHAF1B CNOT6

WT1 WTAP
DYSF ANXA2
PGR SMARCE1
RAI1 TESC
KAT2B GATAD2B
ABCA1 RIMS2
PRKACA ATF1
EGFR PRKCA
NEFL HSPB3
GOLGA2 POM121
COPS6 FBXO22
XRCC5 SGOL1
BCR BLK
HNRNPL TNFRSF14
GYS1 MAP1LC3B
HIST1H3J PAXIP1
NBN XRCC5
NCK1 SNX7
SREBF1SMARCD3
APOH LRP8
CXCL1 CXCR1
CXCL1 CXCR2
TP73 RB1
MED7 CDK8
ZBTB43BDP1
XRCC6 PAFAH1B3
AIRE SMC1A
CTNNBL1 WDR77
VASP TRIM9
DUSP4 MAPK14
CBX5 HDAC4
NFKBIA PRKCI
SPAG7 ABHD16A
HNF4A CREBBP
PLA2G4A C17ORF59
CORO1C RIPK3
PARK2 TUBA1A
GATA6 KLF2
GBP2 PPP1R8
S100A2 MDM2

HNRNPH1 TAB2
NONO SRRM2
PTN CDK5RAP2
ADRBK1 MAPK3
RAB11B RAB11FIP2
DAND5 LDB1
UBE2D2 UBE3A
IMMT AKTIP
EIF5 YWHAG
EFTUD2 GSTK1
CCDC67 CCDC85B
PHLPP1 SNX27
EXOSC10 EXOSC5
PTPN1 GSK3B
KLF8 CTBP2
C2 PSMA4
TRIM23 UBE2H
MED7 UBAC1
RNF103 UBE2N
HLA-A MAGEA1
PAK2 GANAB
AR ZMIZ2
HLA-A MAGEA4
ITGB1 DOK1
FANCA GNB2
CD5 CBL
KPNA3 HNRNPC
PDGFRA JAK1
XRCC3 RAD51L3
CNTNAP2 ZMIZ1
CAD PPP2CA
TFPT ELL
MATK PXN
RGS19 CSNK2A1
RGS10 GNAZ
TCEA2 TNPO1
PMS1 AKAP9
CDK9 CLSPN
SCEL SFN
ACTN1 APC

RNF103 UBE2D3
TRAF4 MAGED1
IKBKE ZC3H15
CCND1 NCOA3
DCN COL4A3
U2AF1 SRSF1
NHP2L1 TRAF6
GC ACTA1
SYN1 RASA1
IFIT3 APOE
AKT1 CHN2
EGFR PRDX1
SRF MINPP1
CADPS2 MEGF10
GRB2 COPS5
MLH1 XRN1
DDX58 UBE2D2
PPP1CAHEYL
DEDD ARID4A
ABL1 EGFR
OPRM1 CALM2
G3BP1 MRPL45
MC3R MRAP2
GIPC1 SH3BP4
PAK1 GIT2
PAK1 IKBKE
RB1CC1 TBK1
HMGB1HOXD9
UBE2D2 NFX1
WBP4 CHTF8
GNG11 AMOTL2
HMGB1HOXD10
IKBKB PPP1R15A
LRIG3 TDP1
RPL38 TSC22D1
PAK1 ARHGEF7
NMT2 BCL2
PRMT5 MYSM1
ETS1 JUND
GAPDH PPM1E

EFNB3 RHBDL2
RHOB NGEF
MAP3K7 HIPK2
CNTNAP1 RTN4
STXBP1 STX1A
NCOA6 ASCL2
GBAS MTA2
HSP90AA1 RPS27A
CCNB1 PIN1
MAPK3 SCRIB
XRCC6 NCF4
LRAT RBP2
RANBP1 FTSJ1
STATH MUC7
CDKN2A KAT5
RRM1 RRM2
SELL MUC7
PTGS2 CAV1
MAPK6 PREX1
ITGB3BP ACAP3
STK16 VHL
CCR10 PRRC2A
C1QB HRG
PEX14 TRAP1
UBE2J2 RNF10
EEF2K MAPK13
PRC1 KIF4A
RBBP6 ZBTB38
AKR1B1 DSPP
PARK2 CAMK2A
CRB1 DDX56
FGFR4 FGF8
RPS27APAIP2
DGCR14 LYST
NDN MPP6
SGK1 PIK3CA
PPP2CBPPP2R2A
SPTBN2 PRKCB
USP49 NUP85
RGS3 SCN5A

HDAC2 SAP30L
SYNCRIP SYT3
E2F1 TOPBP1
SMARCA2 JOSD2
CASP3 PRKDC
YY1 FKBP3
HBXIP VOPPI
CACNA1B MRFAP1
FBXO38 USP7
PRSS23 NIPBL
CDC37 AKT3
ARAF MAP2K2
KCNIP2KCND3
AIFM1 RELA
SRC PPP2R4
U2AF2 GLIS2
PCYT1A CASP6
PPP2R3A NKD1
LPL COPS6
MMP14 C1QBP
MCPH1 SMARCC1
KIF15 KIAA1377
PML CDKN2A
DDB1 TRPC4AP
RRH TGFBR1
SF3B4 SRRM1
GABARAPL2 KBTBD7
EIF1B TCEB1
EIF1B PCBP1
PARK2 UBE2G1
UBE2E1 MUL1
CNTN2 IKBKG
EEA1 STX12
NDUFB6 TMBIM4
USHBP1 SMARCD1
HDAC1 SENP1
PLA2G10 PLA2R1
RAB17 SMURF2
PCNT TUBGCP2
NPM1 MAP3K1

EZR RANBP2
SDPR PLEK
TRIM23 CYTH1
PTPRS UBR1
ETS2 GATA3
GAPDH YWHAZ
ERCC6 XAB2
THAP11 SIN3A
TRIP13 MPPED2
DDB1 WDTC1
TLE1 RUNX3
CYP27B1 RUNX1T1
NXT1 PRKAB1
PSMB2 PLK1
SLC9A3R1 MAX
CDH1 CA9
NGFR CAV1
TRIM37 COPB1
XRCC6 YWHAZ
GOLGA2 NCSTN
GTF2F2 TRAM2
TTI1 TRRAP
CASK TSPYL2
EFS SRC
EIF1B RHEB
RPS27A OTUD5
HDAC1 HMG20B
CFLAR RIPK1
PDHX EWSR1
PSMA3 PLK1
PARK2 RNF41
UBE2H ZBTB17
SND1 LZTR1
RELB RELA
FOXH1 SMAD2
FKBP5 STK11
PCBD1 PCBD2
APC RORB
LCP2 WNK1
IKBKAP GSK3B

CTPS TRAF6
IKBKE PDCD6IP
ABCC8 KCNJ8
UBAP2L TOLLIP
EPPK1 PINX1
TJP1 KBTBD7
HNRNPC FXR2
SOCS6 TUBB2C
NCK1 FAM110A
EGFR PDK3
ACTB MYO1G
SLC2A1PTK2B
NAA15 TNIK
PRKCB CCDC57
FANCD2 RAD18
SOCS2 PTK2
HIST1H4I UHRF1
NCK1 SNX12
TRIM27TAL1
PSME3 WDR48
UBE2D2 MARCH3
FYN TMPO
CCNA1 VPS18
AIRE CREBBP
INADL DDX18
TRIM37MCRS1
HAMP SLC40A1
PARP1 RRP1
HNF4A NCOA6
PARP1 NCOA6
SURF4 C20ORF24
RPF1 RUVBL1
AMOT LONP2
SOCS5 KIT
NASP H3F3B
CCNT1 EP300
ARL3 TBCD
FTH1 CSF3R
SEPT4 SNCB
LYN CASP7

LYN CASP9
TMPO FYCO1
COPE COPG
HRAS RASSF5
TKT TNFRSF10D
TYK2 PLAUR
PRKCD AFAP1
CD36 MATK
RPS3 MEPCE
EFHC1 TEX11
CD40 MYCBP
DES MLH1
SCFD1 USP22
FRA10AC1 VPS29
STXBP2 STX1A
YES1 PDGFRB
HSPE1 C14ORF1
HRAS RASIP1
UBE2U RNF2
DRD2 KCNJ9
YWHAH PARD3
ATF6 CREB3L3
TCP1 MOBKL3
NCK1 DOK1
CASP1 BCL2L1
RFC2 PITX2
ACTL6A ARHGDI
PTP4A3 HEATR1
FLOT1 SHBG
AIFM1 MLH1
FADD NACA
WDR61 SMURF1
ACTN2 ATXN2
CTBP2 TEAD3
ATXN7 USP22
RAB10 AP1S1
ABI2 CCDC53
HOXB9 ING4
MAPK1 DUSP1
COPB2 SACM1L

MYB NGFRAP1
TSFM YWHAZ
MCC PNPT1
TP73 CDK1
COL1A1 SPARC
ANKLE2 ZNF512B
BCL2 BFAR
HCFC1 PPARGC1B
MCM5 ORC3
ARPC3 WAS
TCAP ATXN1
COPE RPS27A
CASP6 CASP10
NCK1 BLNK
PTPRC GANAB
MAX PALMD
ARPC3 CDKN2B
RNF7 ASB1
GDF9 ORAI2
EXOC5 ARF6
YY1 MAX
DHX57 DDX56
EIF3H EIF3G
EIF3H EIF3J
RNF185 UBE2E2
FLNA ARRB1
TCEAL1 TCEAL2
TM7SF2 RAP2A
KDR SYNGAP1
TUBA3C NMI
PDCD6 MAP3K5
PPP2CBCTTNBP2
BCR RAC1
INPP5B SMURF1
SUPT5H IKBKG
MAPK3 NCKIPSD
CFL1 TESK1
SERPINA1 KLK13
CASK KCNJ2
EXOSC2 ZNF408

CCDC7 EWSR1
RPS14 TAF9
CHD3 THOC7
TCFL5 TOPBP1
MCM10HOOK2
STX5 VCPIP1
SMARCC1 SMARCE1
PRF1 DDX24
MED11 MED19
RBPMS FASTK
ATXN3 ARHGAP19
RASGRP2 PTCHD2
PPM1B VAV2
RPS27A TTYH3
CEP70 ZNF408
FANCF GINS2
RFXANK NFKBIL1
CDCA8 SGOL2
ATF3 SMAD3
GADD45B GADD45G
SRSF1 RP9
ETS1 USP13
DPM1 BRF2
ACTA1 MYO7A
PRPF3 GTPBP3
CD2BP2 IBTK
GTF2I NFKB2
PSTPIP1 CD2
FLNA RAC1
PPP1CCSMARCB1
SMARCA2 RAN
SUMO3 EP300
NCK1 C3ORF10
ZFP36 YWHAH
YWHAE TFD2
TP53 NPM1
CCT6A GPN1
KRT18 BBS7
KLF1 SIN3A
AP2A2 DNM1

HDAC3 HIF1A
POR CYP2C19
PMS1 USP13
PIK3R1 RAC1
PSMD14 PAAF1
BSG RPS27A
INSR PIK3R1
JUND ATF3
DAND5 SUB1
ABL1 RAPGEF1
HAND1 FHL2
MLL2 E2F5
CASP8 EDA2R
CUL2 HIF1A
PIK3R2 CSF1
GRB2 TAF15
EFTUD2 SREK1
ESR1 PARP1
IGF1R GRB10
TMEM33 TSC22D1
MAP3K7 HSP90AB1
PRKCH PRKD1
PIM1 PTPRO
RAB5A EEA1
NF2 TARBP2
ANXA13 NMT1
CALM2 CAMKK1
UBC MAP3K4
FAM124B EFEMP2
BCL2L1RAD9A
CD99 UBQLN1
CALCOCO2 FBXL18
DEC1 VIM
KRTAP4-12 ZNF408
ZNF24 ZNF165
XRN1 NDUFA13
AGXT SNCAIP
RNF38 TP63
PLCG1 RASA1
MDFI ZNF559

EGFR PRKD1
EIF1B RPL36
CTNND1 ACTG1
LSM1 FAM136A
ORAI2 MED31
SMARCA4 RELB
FBL ACTB
CCNB1 SET
F2 F5
ISG15 TRIM25
PLSCR1CNTFR
IMMT MRPL44
PCBD2 ASCC2
UBC IKBKG
RPRD2 WWOX
TP53 SHISA5
TP53 S100A6
EGFR PLEC
PRKAB2 FANCI
SRF FHL5
PIK3R2 PDGFRB
TIMP3 EFEMP1
INSR VAV3
WIP1 KCTD15
TRAF4 MAP3K4
CATSPER1 CACNA1I
ITGB1 TLN1
TNFRSF1B TRAF2
TIMP2 PCMT1
CASP3 WNK3
UBE2D3 RNF38
YWHAB MAP3K2
HSPA5 YWHAB
HK3 ZBTB17
GATA1 SMARCD1
AIMP2 TRAF6
AP4M1 AP4B1
TLX3 HIST1H2BJ
DDOST GSTK1
ADRB2 ARR3

CPE ROBO2
EIF1B RPL31
EXOSC9 EXOSC4
PEBP1 VHL
LDLR PCSK9
APAF1 CASP8
RAPSN UBE2Z
FTH1 GOLM1
CXCR1 ADRA1A
PAK3 APC
UBE2D2 CADPS2
LIN7A AMOT
GRB2 INPP5D
ACTA1 TAGLN
LYN DAPP1
ATN1 PSME3
TSC2 YWHAE
PDGFRB SNX1
MPHOSPH6 SNX9
MRPS15 PTC3
CD40 PSMD1
KAT2B JDP2
AR FOXO1
APLP1 HSPE1
SUPT3H USP22
HNRNPK RPS27A
TLR2 TLR10
PTHLH CDK2
TK2 UNC119
UBTD1 TRIM39
SREBF2MGA
SRF BARX2
PCBP4 RBFOX1
RNF123 UBAC1
ERBB2 CRKL
HNRNPK GRB2
MEF2C MAML3
F9 F7
RFC4 YWHAZ
ERBB2 CRK

ATRX ATN1
RPS27A PELI1
RAP2A RAPGEF5
EIF3F ABCE1
RYR1 GRB2
UNC119 ITSN1
ZZEF1 PHYHIP
RAC1 PLD1
HNRNPA1 IGF2BP2
HGS UBA1
BSG PPIA
TCEB1 SPSB4
RINT1 RAD50
PSMB6 TRAF6
AR PNRC1
EIF4G3 NCBP1
TRIM23 ARF6
BRD4 CHFR
PSMB5 VHL
CD177 KCNIP3
USHBP1 CCDC120
TRIM23 SF1
KIF5C CSNK2A1
RIPK2 HSPA1L
MCM10 HAUS1
MED14 HNF4A
ATN1 MEGF8
NEFL CHD3
RPS6KA1 BAD
BIN1 TP73
PRKACA SLC4A5
HELZ GRB2
UBA52 GRB2
CRHR2 UCN3
GRIA2 GRIP2
FLNA MAP3K3
SF3B1 MYC
SLC38A1 INSL6
B3GALT4 DDX19B
CD2BP2 C5ORF41

BAG3 PLCG1
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DGKZ SNX27
UCN CRHR2
ACTB SPTAN1
GAPDHDYNLL1
RYS1 FKBP1A
LGALS12 CARM1
RPN1 GABARAPL2
SLC9A3R1 SLC22A11
DBP TEF
NUP93 PNKP
FGR SNCA
NCOR1 POU1F1
ORC3 GRAP
HNF4A RAD50
GNAI1 GPSM2
MAEA MYOC
VAMP2 VAMP8
PLA2G7 TUBA1A
LCN1 LYZ
CBX5 CHD1L
ITGB1 RABGAP1
PHB FSIP1
SNAI3 HDAC2
HLA-DMA HLA-DMB
EFTUD2 RUVBL2
MYOG SMARCA4
TM4SF1 SDCBP2
GC ACTC1
CCND1 NCOA1
RBPMS EWSR1
PSMC2 RAD23A
ZNF217 KDM5B
SUMO1 GCM1
OTUD6B OTUB1
CDK1 CDT1
MAP4 PIK3R1
AIMP1 AIMP2
PSMC2 RAD23B

ACTN2 EPS8L1
PSEN1 HERPUD1
AR KIF1A
ZFYVE9 ST7
RAE1 FAM122B
FLNA FBLIM1
TRPC4AP CHMP4C
TUBB2A RIC8A
PIM3 BAD
HIST1H4I NR1H4
DDX58 RPS27A
ZMYND11 ZHX1
MYC XPO5
CCDC85B CCDC11
CDC25A BTRC
C10ORF62 MDFI
STMN1 CDKN1B
UBE2D2 RNFT1
CD2BP2 SF3B4
GTF2E1 TAF6
EP300 ZNF148
ITPR3 TRPC7
FLNA SMAD5
STX5 SEC22A
RPF1 RNF11
ATN1 ARF3
VPS41 HOOK3
MAX SMAD4
CTPS PRKAB1
PFN2 FLT3LG
SSSCA1 IL16
FAM173A HAP1
NCK1 PXN
PLS3 FTSJ1
LAMP1 TNFAIP3
RAN VRK2
COCH COL4A1
HSPA9 REL
SMAD9 ARID1B
CALB1 IMPA1

YWHAB STK38L
ATF3 SMARCA4
IL7R PIK3R1
PRNP LSAMP
TNNI3 TNNI3K
PFN2 IK
CTR9 WDR61
HTRA2 CSN2
MYL12B USP45
CD200 CD200R1
POLR1B EIF3L
MDM2 NUDT9
CCR3 CXCL9
BIK BCL2A1
SRC PRKD1
GFAP CAMK2A
GNAI2 CHRM1
BET1 STX5
CLSTN1 TRIP12
PUM2 MED23
RANBP2 ADRM1
SKP1 FBXO11
BRD1 KIAA1377
MYC FBL
HRAS RHEB
CEBPD PIAS4
SNTB2 ERBB4
NAGS TMEM39B
MAPK3 STAT3
STC2 PTN
YWHAB EPB41L3
MED26 MED23
PTPRA CALM2
PRPF4 USP39
DYRK1A PHYHIP
XPOT RAN
DAZAP2 FAM46C
CAPNS1 CDK4
PIAS2 DNMT3A
CYBB CYBA

NPM3 KIAA1377
GABARAPL1 ANKFY1
RPA3 PKIG
PSMB5 TMBIM4
BIN1 CUX1
LMNA NUP153
SYNCRIP SYT1
PAXIP1 SRRM1
COCH COL1A1
KEAP1 GABARAPL1
COCH COL2A1
ABL1 TP53
TCEB2 MED8
GCA RBFOX1
INPP5F GOLGA5
DAPK1 RPS27A
ACVR1 PAK1
RPS27AUBA6
HNF4A COPS5
RPS27AIL17RA
ZFYVE9 CTNNB1
NOV POLR2L
USP7 TBCB
BRCA1 APLP2
EIF1B STRAP
SMARCA4 NEUROD1
GADD45G RAN
ABL1 ERBB2
ABL1 NTRK1
DDX5 CDK9
YES1 TYRO3
LCP2 SHB
CDC34 CREM
CCDC85B TTC14
YWHAZ AKAP13
IKBKB PRKCQ
PDHA1 DLAT
KATNA1 KATNB1
ACTA1 PLD1
GGN GGNBP2

LAMA1 COL7A1
ACAN ADAMTS1
FYN NMT1
BIRC2 CASP8
MATR3 MAP3K3
HSPA5 CASP8
CDKL5 MECP2
SRSF6 RNPS1
SRC SEPN1
UBE2D2 ING4
ITGB7 ITGAE
HADHBMAP1LC3C
SLC2A4MAP1S
RPIA LNX1
TOP2B HDAC1
RET GRB2
GAPDHMYOC
CALM2 RIPK3
USP11 USP15
SMARCA4 HDAC1
CDC27 HOXC10
RAB7A RAB4B
MLH1 ACTG1
ACTN2 TUBA4A
ZNF513 ZFP64
IKBKB ACVR1
KIF5A KLC2
MLH1 ACTG2
CSE1L YWHAG
DLG1 MPP2
SMAD1 SMURF2
TAF9 SERINC1
CCNT1 MAX
NCK1 NOTCH3
PSMD14 PSMD7
MYC GTF2B
CD2BP2 CD2
ABL1 BCL2L1
VASP XPO6
FCHO1 ACVR1

JUND MDM2
TBC1D4 TOPBP1
PARK2 PSMC5
MAFG MED31
PAFAH1B3 INSL6
DRD1 DNAJC14
HBXIP MAF1
DNAJA1 TRAF2
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COX5B TH1L
H2AFX OBFC2B
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CDC27 ANAPC11
PRKDC AP1B1
USP46 PHLPP2
ABL1 SOS1
MDM2 GNL3
WDR5 RFWD2
SIRT2 ING1
TGFA ELANE
PHLPP1 GSK3B
EDIL3 ITGAV
SERPINB9 TLE1
NFKBIA CLTC
CALR YWHAZ
NUP214 SMAD4
RRAS EPHB2
IRF2BP1 PCBD2
CRKL PXN
KPNA6 CSE1L
TUBA3C MAP3K3
RPS27A CHFR
SULT1E1 SETDB1
CDK1 TSPYL2
USP8 EPS15
MED6 RARA
TNK2 SRSF5
HNRNPA2B1 SF3A2
UPF1 UPF2
NUP43 NUP37

SOCS6 TUBD1
BIN1 XRCC4
RPS27ARNF125
DYNLL1 MAST2
SQSTM1 MAP1LC3A
GNB2L1 PRKCE
AKT1 NOTCH1
UBC SNX9
DDX3X TOB1
OAZ1 SMAD1
NCK1 TPX2
RND2 FNBP1
TCEB3 CUL5
AKT1 CDKN1B
PXN PPP2CA
TERT ABL1
BIN1 RIN3
RPF1 THRAP3
VPS45 VPS18
MKNK1LUC7L
SP3 HDAC2
TERT TPP1
EVI5 AURKB
TGFB1 YWHAE
ERN1 TAOK3
CDK5RAP2 KAT5
TAL2 TCF12
POLD1 NCAPG
AP2B1 TUBGCP4
SERPING1 MASP1
AIP HSP90AB1
PTPRC MET
DBN1 NIPBL
E2F3 TEAD3
YWHAZ TSR1
CDH2 PTPN7
LCK CSK
COPS6 TOR1AIP2
BUB1B KAT2B
HUS1 YWHAZ

BCR YWHAZ
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GABARAPL2 PDCD6IP
USP7 RNF2
CDH2 CTNNA1
CDH2 CTNNB1
DVL2 ZNF165
PDCD10 STK24
SGTA HLA-B
CD82 IGSF8
RPL35APRKAB1
LIMA1 RIPK3
RPS6KA3 MAGI1
DHX57 LYAR
PLK4 SFN
SP3 CREBBP
DFFA CIDEB
PSMB6 EZH2
RYBP CASP10
TFE3 ACLY
ACTN2 MYOZ3
ERBB3 SOS1
PTP4A3 UNC45A
GEMIN4 SRRT
LYN CBLC
CCNA2 CDKN1C
TAF1C TAF12
GIPC1 MMS19
LRPAP1 LRP1
RFXANK TBR1
CHEK2 PLK1
HLA-B NASP
RPS24 NFKB2
KPNA1 HIST2H2BE
POLD1 TREX2
PTCH1 IHH
UCHL1 ATG5
ABL1 SOS2
MBP IRAK1
DMWD WDR48

AR PA2G4
JAK3 SHB
SRC GLTSCR1
PDE6D RAB18
PTPRC CTNNB1
AGR2 MED31
BCR TCF7
ABL1 SHB
VHL TCEB3
TARS PRKAG2
RAD23B PSMD6
GABARAP SQSTM1
TAF1B RRN3
DNAJB1 ATG2A
SNF8 TSG101
RAD18 POLQ
PCNA CCNB1
PPARG USP11
KRT77 USP53
RPS27ASYVN1
SPTAN1 PIN4
HIST1H2BG DLG3
APC ARHGAP21
ARIH2 DISC1
DCTN1 ZNF512B
TRPC4 TRPC5
MARK3 VPS11
UBE2W FANCL
TOR1A TOR1B
SERPINA5 SEMG2
LCOR HDAC6
PTPRC IRS1
ACP5 RPA2
HTT PDK2
MTA2 HIST1H3J
RELB BCL7A
C3 ITGAM
ESR1 VAV3
SYT5 NRXN1
HNRNPM ARF6

RHO GNGT1
SOD2 TNIK
HLA-B SEPT2
PLXNB2 MET
PDGFRA CRK
XPO5 GSTK1
PDGFRA CRKL
EGFR MDH1
DVL2 DD1
PTPRC TIE1
XRN1 VWA5B2
HIST1H4I MCM6
RPAP1 IGF2BP1
TRAF3IP1 FRMD4A
ORC1 CDC5L
ADAM10 GRB2
SGSM2 PTN
PTK2 CD47
ITGB1 EMILIN1
TAF1 PAX6
HLA-B PSMD6
ZFP64 C14ORF1
TFG MAP3K3
MMP8 BCAN
PDGFRB CBL
NME5 DYDC1
EPB41 COPZ1
KCTD13 LAMB4
NUP62 G3BP2
GRID2 MAGI2
GCH1 SP3
CCT2 MLST8
PRRC2B USP3
FTSJ1 WWC3
BLMH ECSIT
NIPSNAP1 MAP1LC3A
IL6ST TLE1
ABL1 SF3B4
GRB2 PBXIP1
ADRB2 GNA15

PDGFRB GRB10
OTUD7B TRAF6
NCOR1 ZBTB33
UBE2U TRIM68
NFYC ANAPC5
PRSS1 DEFA5
RHOB ARHGEF3
BCL6 MUM1
CHFR UBE2E2
GTF3C2GTF3C4
MMP2 PZP
SUMO3 CHAF1A
COPS6 DCAF4
XIAP WDYHV1
INSR SH2B1
GH1 TMC01
KBTBD10 RBX1
FOXK1 BAP1
MLL MAP3K5
NPC1 OSBPL5
CLDN2 TJP1
EMX1 GTF2A1L
PLCG1 SCARB2
CDK2 MS4A3
ACVRL1 XIAP
GLRX MAP3K5
APP BLMH
SH3BP5TNKS
PIK3R1 SYK
XPO7 IKBKG
PLCB1 RRBP1
ANXA2 MYOC
PSMD10 PSMD4
RAB4A CHM
UTS2D UTS2R
HTRA2 APP
ABL1 VAV1
C5ORF30 MDFI
CBR1 PRKAB1
LRRN1 CA8

PAXIP1 DPY30
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ERBB2 DOK4
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PLCG2 SHC1
SEPT2 SEPT8
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PIK3R1 CHRNA7
PRPF40A FNBP4
PPP2R1B PPP2R5A
PPP2R1B PPP2R5B
P4HA2 PRRC2A
COIL MYBBP1A
TRIM29EFCAB4B
UBE2I SETDB1
BAHD1 MEGF10
IFIT5 USP33
CDK1 NPM1
RPS27AAMFR
IFNAR1STAT2
MAP1B ATG3
SRF REL
ANAPC4 FZR1
PDPK1 PRKCE
ANAPC4 ANAPC10
AMOT DYNLL2
EGFR PIN4
LDOC1 IKZF5
DDX5 TOB1
EYA2 DMRTB1
TOB1 SKP2
AP3B1 ARF1P1
NTNG2 EWSR1
ENAH ABI3
AGTR2 ZBTB16
ARID4A HDAC1
FSCN1 FANCD2
PTK2 BEX4
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ZNF417 CEP72
PFKL IKBKE
TRIM21 NCOA3
SUMO1 HELQ
MAP1LC3B UBA5
PRMT5 LSM11
RPL23 RIPK1
CALR TAP1
FYN WAS
RNF8 EXOSC2
OGT FIBP
UBE2I SUZ12
VCP FAF2
TAL1 STUB1
TEC RHOA
ORC1 ORC3
PML MXD1
CCNA2 CDC6
RFC5 C7ORF64
MCC PSMD13
CRK TPX2
NPM1 PML
IPCEF1 CYTH4
CLN3 CAND1
APC2 TIMP2
PTK2 CITED2
CCND2 RUNX1
GH1 CLPP
FGA SERPINA5
ZNF423 EBF2
S100B SUGT1
PTTG1 DNAJA1
ATXN1 CIRBP
HGS C1ORF190
GFI1B JUB
SNW1 OCLN
PPP1R9B PPP1R9A
CRK CBLC
HSPA9 GTF2A1
BAX BCL2L1

ERBB2 PAK1
FN1 MYOC
MT-ND5 SREBF2
PPL OPRM1
PMS1 EXO1
BRMS1L ING1
CCT8 CTTNBP2
EPOR PTPN11
AXIN1 SMYD2
PTCD3 LUC7L2
CYC1 CYCS
UBE2V2 INSL6
CDC42 ASAP1
MLH1 SQSTM1
EI24 UBE2D2
ACTA1 TSC1
CIT DISC1
SHBG PTGDS
DLG4 SYNGAP1
CSDE1 PCSK7
TCEB2 DIO2
ACTL6A FLII
CNBP RPL36
OMP BEX2
RBL1 NTHL1
BAX MCL1
HMGB1GTF2A1
TBC1D7 IKBKG
AKAP8 PRKAR2A
CDKN1A CSNK2A1
ESR1 HDAC9
HIST1H1C NASP
IKBKE PA2G4
TGFB1 RHOH
RPS19 SRRM1
DNAJA1 FZR1
ERBB2 SH2D5
SIRT1 INGX
PINX1 CNPY2
ERBB2IP LRRC1

DLGAP3 NCK1
CREBBP SNIP1
RNASEH1 C20ORF94
SIRT1 BCL11A
CD44 TGFBR2
GNGT1 IKBKG
DNMT1 EHMT2
NRL FIZ1
RARA MECR
CAV1 PRKCDBP
PLRG1 PRPF19
HMOX1AKT1
TTF1 PTRF
PFN2 EEF1A1
PRKACA PTPRR
PML SIAH1
PTPN2 STAT5A
HGS EPS15
PTPN2 STAT1
SRP14 LYAR
ADRBK1 AKAP12
TP53 TXN
RFC1 ZSCAN1
HLA-B LILRB1
CCDC47 TMBIM4
PDE6D ARL2
PDE6D ARL3
KHDRBS3 RBBP6
CR1 FUT4
NFKBIA TIMM50
DST PTK2
CASP4 GCN1L1
ASB9 HIF1AN
C5 C5AR1
INSL6 RIT1
TUBA3C TBK1
SIAH2 PEG10
GSTM4 TH1L
SKP1 KDM2B
GHR PTPRB

INS RB1
RALBP1 EPN1
TRIM24STAT6
ATRN COPS5
EEF1A1PLAUR
SH2B2 SORBS1
AFF2 SREBF2
HNRNPU RELA
TRIB2 UBQLN4
CRKL GAB2
TERT NCL
SEPHS1CRMP1
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PTPRB GAB1
DR1 POLE3
GHR JAK1
CCDC22 CPNE1
EFS PTK2
RPS27AGGA1
HRAS PLCE1
COPB1 GBF1
STAT3 PIAS3
CD4 TFRC
RCC1 NUP98
MARK4WNK1
CAPZB MAP3K3
NQO2 GORASP2
TACC2 TTK
WDYHV1 MDFI
FGF2 CD44
TRAF5 TNFRSF19
SFN FAM189A2
MYBBP1A PPARGC1A
RNF4 UBE2E2
VAPB STX1B
RALBP1 IKBKG
PTTG1 CDC27
HMGB1TGIF1
YWHAQ NCOA3
PSMD4 UBQLN2

SRC ARRB1
IKBKE PSMD1
SMAD3 TGIF2
YWHAG RASSF8
RAP1A RASA3
WNT5AFZD1
DEC1 BHLHE41
NFE2L1MAFF
YWHAG PANK2
PTN CGA
RAE1 DDX19B
CASP4 NUP93
GPRIN1LRP8
IKBKE PFDN5
ATXN1 FAM46A
SMARCA5 COBRA1
PTPRF JUP
CAD NFKB2
PINX1 INVS
POLR1E QPCTL
VHL LYZ
PRDX1 SESN1
TRAF2 GORASP2
ESR1 NR2C1
HSPA1B KRT7
APC2 CDC27
RPS27AFBXW11
RFXAP RFX5
MAGOHB HMG20A
E2F1 STOML1
SUV39H1 CBX5
ATXN7L3 USP22
PRPF6 GIGYF2
IL7R STAT5A
ZBTB16HBEGF
TNFRSF1B RPS27A
SRPX2 PLAUR
EXOC7 PRPF19
PRSS23 GRK6
AXIN1 CSNK1E

RPA1 AICDA
ZNF136 CEP70
USP13 NPLOC4
LMNB1 EMD
GH1 FSCN1
TLR2 IRAK1
PCNA MSH2
CDKN1A RNF144B
VHL HSPE1
MICALL1 PACSIN3
MAP3K3 WNK1
STAM2 RNF11
TNFRSF10B EZR
IRS4 TNFRSF1B
DAND5 EPAS1
IL1A NDN
SRSF1 DIDO1
RELA CARM1
MAPK14 FUBP1
USP22 POFUT2
ACP1 PAK2
DNMT3B DNMT3A
MYBL2 EP300
CHD3 HABP4
IGF1 IGF1R
CNBP ERH
DAND5 C3ORF17
ACTB SSH2
CDC42 C14ORF1
BCL7B TBK1
RAP2A EEF1A1
NCK2 TRIP6
RBL2 CUL1
HNRNPM TBK1
FLNA DMWD
CHEK2 E2F1
EIF4E PRKCA
IKBKE HSPA1B
YWHAQ CABIN1
MAP2K4 MAP3K2

PAPOLA SMAD2
ORC1 DBF4
PCNA EP300
ZFP161 ZNF295
ENOX1 NIF3L1
C19ORF50 EWSR1
APOE PLTP
PDGFRB SLA
PRKAR1A CCNE1
CAPZA2 RBBP6
CAPN2 F2RL1
MYOD1CARM1
VAV2 RAD23A
MEIS2 TRIM25
HELZ TOLLIP
UBE2D2 ELF3
ANKRD13D UBQLN4
TUBA4A MAP1A
CRK ASAP1
TNK2 RASGRF1
SUMO2 RAD51
ITSN1 ARHGAP31
FYB SRC
FOS CREBBP
PTPN6 BLNK
YWHAG FKBP8
NCK1 MYRIP
ADRA2A GNAO1
PRPS1L1 SUMO4
SIAH1 AFF4
CIRBP LXN
ACTN4 SERPINE1
PHC2 SCMH1
WIPF1 ZAP70
CDC20 SOSTDC1
CAV3 SLC22A11
WIPF1 PRKCQ
CR2 FHOD1
MCM7 SUV420H2
XPO1 NPM1

AZI2 TBK1
ARPC3 RPS4X
SVIL ESR1
GDF9 STRN4
CDH16 CTNNB1
PEA15 LUC7L2
YY1 EZH2
USP12 MMP2
REPS2 CDK5RAP2
TBXA2R RAB11A
PTK2 OCIAD1
VHL DCTN1
RECQL5 MRE11A
RAB11A RAB11FIP4
RBPJ HDAC1
PIK3R1 PTPN4
DIAPH1PKD2
EEF1A2TRADD
PTPN6 DOK1
SYVN1 UBE2Z
FTSJ1 NUDT5
PWP2 USP36
RUNX3 YAP1
TEX11 VIL1
TP53 HMGB2
RRP1 SDF2L1
SOX10 NMI
NBEA STRN4
S100A8 RAB17
SMAD9 ZNF557
FLNA YWHAZ
LYN CRKL
BCL3 HDAC1
GATA4 ID3
IRS4 MTNR1B
USP19 TRIM21
NPM1 NFYC
SMAD9 EIF3E
USP46 WDR20
DAND5 NKX3-1

RBPJ SNW1
GDF9 PRKRA
MYO1F EWSR1
ITGA6 PDIA3
ATXN1 TBC1D5
NFKBIB CCDC28A
UBE2W MARCH5
LRPPRC YWHAZ
SGTB EFEMP2
EGFR MAST1
WDYHV1 RBBP8
PRKCI FRS2
PML EP300
ZNF165 ZSCAN30
RIPK1 USP21
BCL2L1 BCL2
MOBK3 SCM1
HSPA4 AIMP2
CYTH2 IPCEF1
ERCC2 HERC5
CCDC155 CCDC87
TP53BP1 IFI16
YWHAG ARHGEF7
MYBL2 CCNE1
TAF9 TAF6L
CAPN1 CTSC
ITGA1 TLN1
KBTBD10 RPS27A
CNTFR CRK
NR3C1 SET
USP8 SLBP
MAF FOS
YWHAB SSH1
KRT33A DNPEP
TUBG2 RNF19A
CHMP2A VPS4A
GANABPRKAG2
USP4 DCP1A
LDB2 RASIP1
RAD17 RFC3

RAD17 RFC5
OGN CRK
NBEA DTNBP1
AXIN1 TSC2
TAPBP SEC14L3
EPRS AIMP2
BCLAF1 LEMD3
EDNRB ADRBK1
ROCK1 CRMP1
MYC IGF2
SH2D1A ARHGEF6
TGFB1 MYO3A
STK25 PDCD10
MAP4K4 SLC9A1
RMND5B EWSR1
PHF2 TP53
ERBB2 BLK
CHD3 IVNS1ABP
CUX1 GOLGA5
SHANK2 MYO5A
LAMA4UBR1
YWHAG GTPBP4
MDM4 YWHAG
COPS6 COPS8
MSH2 PRKCZ
PEX10 PEX19
COL3A1 DDR2
DAND5 PPP1R13L
SRSF3 PCBP2
NOTCH1 SNW1
TP63 IGF2BP1
FYN CDC27
TSC22D4 SACS
CHRM4EEF1A2
YWHAG GIT2
CASP4 LSM10
ZNF408 UPF2
L1CAM CSNK2A1
THRB CNOT1
SOCS1 TUBA3C

HTT UBE2K
SRSF3 PCBP1
SKP1 FBXO18
PTPN13 ARHGAP29
AP3D1 SLC30A3
G3BP1 YTHDF1
HLA-DRA CD63
CUL1 RPRM
PRKCB GAP43
YWHAQ EMD
MAP2K7 CNKSR1
CTGF ERBB4
SUMO2 PHF5A
MYH10 LLGL1
USP11 SSX2IP
HNRNPD TNPO1
STK16 NAGK
PRKAR2B AKAP9
LRP1 MAPK8IP2
RAD23A PSMD4
CDC42EP4 POLR3H
RELA DDX1
FBL MCRS1
ICAM1 MSN
PTPRC PTPRCAP
TNNI1 ACTA1
ELAVL4 NXF1
PRPF40A ASXL2
RAD51 PALB2
LYPLA1 VHL
TRAF5 TDP2
PAFAH1B3 IGSF21
VIM CRCT1
TGFB1I1 SLC6A3
CAT APP
FES PLXNA1
ABL1 ERBB4
OXSR1 SLC12A2
PPP5C MAP3K5
TRAF4 TRAF6

UBE2D3 ZNRF4
TBXA2R GRK5
SLC12A2 MAPK14
CRK ARHGAP32
TRIM28 SERTAD1
PDGFRB PDAP1
CDC42 MUC12
BIRC5 CASP3
MAPK12 DLG3
MPO ALOX5AP
GJA1 GRB2
PHB2 TRAF6
MAP3K1 BCL7B
AKT1 SMAD3
VAMP4 CSNK2A1
ELANE F5
TKT FTSJ1
POLR2B MAGI2
ABL1 CD19
PRKACA RHOA
HSPA2 PARP2
BIN1 ITGA6
TP53 ERH
SREBF1 MED23
GRAP2 KRTAP4-12
MNAT1 COPS6
COL1A2 LUM
GOT2 HLA-B
PSMC4 ATG4C
TAF1D RRP15
SMTN WNK1
CPB1 YWHAG
MAP2K5 KIDINS220
LRP2 SCN3A
CDK1 ECT2
ARF6 HEATR2
HSP90AA1 TUBA1A
CXCR3 CXCL9
DPP4 FAP
RNF14 UBE2D4

SMAD4 LEF1
EGFR NEDD8
MCM3AP RAC1
GNB5 NR6A1
CUL4A DCAF17
EIF1B PSMD6
CDC25C PLK3
ARRB2 TCOF1
PTP4A3 IPO4
CTNNB1 EZH2
NFKB1 DST
PHB2 USP15
FYN TUBA4A
ATXN1 SYBU
CD74 CD44
PPP1CASPRE1
UBA1 BARD1
ESR1 XRCC5
TRIM15EHMT1
PRMT2 NCOA6
CAPZA1 CNOT8
ASAHI TSC22D1
RAC1 PTPLAD1
EPB41L3 IGSF21
RB1 CBX5
EIF4B KBTBD7
SUMO2 TRIM63
CBR1 TRAF6
BCAR3 TPM3
MEF2D HDAC5
CAV3 PRKCDBP
IL1R1 IL1RAP
PPP1CBPPP1R9B
ACTA1 PAK1
RUNX1T1 PCBD2
CREB1 ATF1
RB1 TGM2
ABHD16A MT-ND4
HOXB6 CSNK2B
TP53 BCL2

PAFAH1B1 PAFAH1B2
CEBPE KDM2B
SRP14 DDX56
CBX5 DSN1
KANK1 BAIAP2
PAFAH1B1 CSNK2A1
MX1 SP100
EGFR UBE2V2
PHB2 RAPGEF2
RB1 MAPK9
GRINL1A HIGD1B
CREB1 ATF6
KNG1 KRT1
CA2 ANKZF1
EZR SLC9A3R2
PHF2 EZH2
MAP3K3 CPVL
TNFSF4TRAF2
ACTN4 USP6NL
CCNE1 SMARCD3
CRK PCDHA6
PINX1 MRPS16
MERTKGAS6
CDK2 RBL1
FYN CD19
SLC9A3R1 RLBP1
FYN ABL2
TGFB1 SMAD1
TGFB1 SMAD2
FYN TXK
ANP32A TAF1A
GRB2 MOBKL2A
PRKACA ACCN2
EIF3F PRRC2B
IRS4 YWHAG
PTP4A3 ATP2A2
NT5C2 MOBKL2B
PSMD10 PSMD7
ABLIM1 SREBF2
ENOX1 ENOX2

DTNB CCDC85B
STAT3 STAT2
NR5A2 EDF1
TXN PINX1
SNW1 SRRM1
TMEM33 BRF2
MMP14 SPOCK3
CDC42 CDC42EP3
HADHA MAP1LC3B
CDKN2A HAUS1
GJA1 TJP1
UBE2L3 RBCK1
TDRD7 CABLES1
FTSJ1 STOML2
EIF1B EIF4H
LMNA MRPS26
ID1 IKBKG
F2 F2RL1
ABI1 NCKAP1
SSTR2 SST
HIST1H1C CENPA
GRB2 MERTK
GSK3A SGK3
UBE2D2 TRIM35
PHOX2A HAND2
SLMAP FAM40A
UBE2D2 PDZRN3
SMARCC1 WWOX
HGS EHMT2
RAB3C RPH3AL
RPN1 ERBB3
SRF PML
TOPBP1 POLE
ETF1 TRAF6
THRB PSMC3IP
S100A8 KLC2
SS18L1 USP30
UBE2K TRIM39
GLRX3 FRA10AC1
PRDX1 RIPK3

LAMB2 ZNF512B
CBX4 PHC1
ESR1 ING1
PTK2 CIB1
STAT5A CENPJ
CHRM2 SAG
MXD1 MLX
SEPHS1 IGSF21
PTPN6 TREML1
GNAS RUVBL1
ATXN1 UNK
UBC GATA1
INO80E RUVBL2
PRPF6 SF3A2
PAK3 PXN
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CRYAB CRYBA1
RHOA ARHGDIG
ATXN1 ATP6V0D1
NCOA1 CARM1
DNM2 PEF1
GOT2 HLA-C
PIIB IRF3
SREBF2 TTC1
BLM SUMO2
CCND1 BRCA1
MCM7 CDC6
SH2D1A CD84
ATG13 GABARAPL2
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DEC1 CHD3
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AR UXT
EIF3F CFLAR
EWSR1 MRPS18B
USP11 FARSA
SFN DCAF7
ABLIM1 GOLGA2
DES PKD1
MAPK1 PLCB1

GPR25 MAP3K7
PRKCE AKAP9
HGS MARK4
EXOSC9 SLC7A9
AKAP17A NINL
BMX RAP1A
CEBPB HNRNPK
S100A11 TRAF6
TRA2B IVNS1ABP
ITGB4 DST
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MYC GEMIN4
RBL2 SNW1
DDX5 NDRG1
RBL2 DGKZ
ELANE LRP1
TRAF2 UBE2Z
TOB1 TARDBP
CD81 ZBTB16
PLEKHA5 CCDC88B
FOXM1 CREBBP
DNM1L SCG3
RIPK2 CALM2
MOBKL1B LATS2
GADD45B MAP3K5
XPO5 NEK6
KPNA3 MDM4
SMURF1 DUSP13
EXOSC9 EXOSC2
ATXN1 CCDC136
E2F3 MGA
GRIN2D PRKCE
SRRM2 RUVBL2
RPL5 WNK1
SFN YWHAG
UBE2M RNF111
UBTF SIRT7
GAP43 RABEP1
MTHFSD TP63
ATF1 GABPA

STRN WNK1
DLG4 LRRC7
DDB1 DCAF11
CDC42 FBXO9
ATF1 GABPB2
GBF1 COPG
ARCN1 KEAP1
PLCG1 EEF1A1
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PRKCE GNA13
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SGK1 CARHSP1
RAB11FIP2 MYO5B
COPS2 RFWD2
TRIM46TSG101
ARID1A ITCH
EIF1B YARS
ATF1 CAMK2A
TCF3 FERD3L
ENSA PSEN1
CTTN MYLK
SF1 NCOR2
NDEL1 PLCB1
EEF1D NOM1
CUL4A DDB2
VAMP3 PINX1
CAMK2N2 CAMK2A
CEBPB MAPK1
ESR1 TAF10
ITGA6 GIPC1
GFI1B CCDC136
SSB VHL
SRF GATA4
ZNF646 TRAF2
PCP2 TWSG1
PEBP1 PRKCZ
YWHAQ YAP1
GRM6 GNAO1
IL2RG IL15RA
RAC1 PAK1

VHL VBP1
AIRE MCM6
ERBB2 SLA2
ACTN4 STAT1
BCL3 N4BP2
BDKRB1 GNAQ
EFNA2 EPHA4
PRKCB SYT6
IKBKE TSNAX
NR2F6 BAZ2B
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SBF1 MLL
UBE2D2 TRIM26
MAML1 CREBBP
EFNA2 EPHA5
GRID2 PTPN4
MDFI SFI1
PSMD11 CCDC90B
DYRK2 RAD54B
EPHB2 NUP153
RPS11 FTSJ1
MARK3 RPS27A
EIF4A2 PDCD4
XPC DDB2
SNRNP200 TCEA1
HNRNPD EXOSC4
KHDRBS3 KHDRBS1
PLK1 BIRC6
HMGA1 CSNK2A2
ARHGEF15 MOBKL3
FANCA APITD1
CHD4 NAB2
RB1 PRKCZ
GNB2 IKBKE
RAC1 PAK2
CHRM3 GNAQ
ARID1A HIC1
BAG1 STUB1
CASP6 PSME3
SMAD4 TH1L

XRCC6 XRCC6BP1
OFD1 UBE2I
IMPDH2 HLA-C
PRKRIR TP53
RB1 ZBTB16
HSP90AB1 MEPCE
GYPC PDIA3
MLL ASH2L
HOXB9 PHTF1
RBPJ FHL1
ABCF3 SRRM2
PSMD12 PAAF1
POLB PNKP
AR RNF14
BAG2 TRAF1
NPM1 HABP4
DUT PINX1
KDM5B SLC39A6
TP53 S100A4
VAV1 MAPK1
TAL1 NCAPG2
H2AFX RNF168
PHLDA1 MDFI
TAB1 TAB2
MYB HIPK2
CDC20 CCDC59
EPB41 YWHAG
ZFP64 MAFB
RAP1A C1QBP
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KIF1B BRCA1
KRT36 OTUD4
HSPA9 TBPL1
ERBB2 JUP
YWHAG DYNC1H1
WISP1 DCN
TSN TSNAX
MARK3 RPS27A
HMGA1RXRA
HSP90AA1 RPS3

MCF2 TNK2
KDM1AAR
MYC FOSL2
WASL HSP90AA1
HSPD1 HIST2H2BE
GABARAPL2 ANKFY1
SUMO1 DAXX
HLA-C PIN1
ATXN1 ZC3H10
PFAS MCC
DLST NDRG1
LRP4 SUMO1
SQSTM1 C14ORF139
CSNK1A1 ETF1
GLRX3 HEXDC
SEPT8 CDK14
PTPN12 GRIN2B
SIRT1 AKIP1
KCNA2 ETV1
HIST1H3J ASF1B
TSC22D1 MFN1
CHRM2 GPRASP1
FOXO1 FHL2
PRKAR1A CDK2
NPC1 VPS4A
LYN SYK
CDK4 VTA1
RPS27A MDM2
SELE PTPN11
RLIM UBE2D4
APITD1 RMI1
UBE2D1 ZNRF1
SRSF3 SF3A2
KCNJ6 DLG1
NFX1 MAML3
YWHAE KCNK9
PRSS23 ACTG1
RB1 LIN9
TBP TAF10
GAPDH SET

DNMT1 DMAP1
PRMT5 CTNBL1
HIST1H3J EGLN1
PRKCB ZMYND8
HIST1H4I PRMT6
ENPP3 GRB2
CCNB1 MEF2C
MPP5 PARD6A
RAD52 MCM2
RARA LIMD1
GRM5 PRKCE
CUTC SLC27A6
GAPDH PTK2
RPS27ARRM2B
PDPK1 SGK3
TBP FOXF2
YWHAE HSF1
PDCD6 SEC31A
BRCA1 RAD51
GLRA2 BAG6
PSMD12 PSMD7
STX4 TXLNG
SSR1 NUP54
RBL2 HDAC1
FLNA KCNJ2
DNAJA1 MAP3K3
EML1 GRID2
MSX2 PPARG
MCM3 TRAF6
PPFIBP2 TSG101
CHGB MARK3
MCM3 NFKBIA
PTN NAP1L5
EIF3F EIF3D
YWHAZ KLC1
EIF3F EIF3H
TRAPPC3 TRAPPC10
NTRK1 DYNLL1
CD46 CD82
TSC22D1 GCN1L1

PTP4A3 XPO5
RAC1 BANK1
TSC22D3 HPCAL4
BMI1 CUL3
SEPT6 SEPT12
TRIP6 PPP1R16A
PLCG1 FLNC
PIK3C2A TKT
MYO6 IKBKG
RELA HSPH1
GRIN2B GRIN3A
INSIG1 VAPA
EGFR STAT3
DPYSL3 DISC1
APP TP53BP2
RRAS GRB2
RCVRN GRK1
COLEC11 SRSF1
HDAC1 SAP30L
NDUFAF2 OPTN
PARK2 PINK1
KIAA0776 PHLDA3
CUL4A FBXW5
NAA38 PGD
CDH1 LIMA1
PHC2 MCERS1
RAD1 PARK2
ATP5C1CCND3
ACTN2 TTN
IRS1 PHIP
DLG4 ERBB2IP
DNM1L SH3GL1
TRIP13 ASB13
CDK1 TLE1
PRKCB CARD11
DES AURKB
SDC2 TRAPPC4
HDDC3 NMI
HAP1 TOMM20
SIAH2 DCC

DZIP3 UBE2D4
COIL TGS1
MAT2A ARF6
SNAP25KCNB1
CRK DKKL1
GABPA MED1
ESR1 CDKN1A
YWHAE CDK16
ANXA5 FDFT1
HAP1 ING5
NR1I2 RXRA
CHAF1B HIST3H3
SMAD9 BAZ1A
MICALL1 PACSIN2
TRIO EXOC1
FLNB RAC1
DEC1 STAT3
VHL COTL1
PTN BTBD2
PRKCD USF2
WASL PFN1
CSN1S1 CPSF1
PTP4A3 SMAP1
MAX CUX1
GABARAPL2 NCOA7
USP8 NBR1
CDC42 GOPC
UBE2D3 UFM1
SMAD6 WWP1
NR2C2 TAB2
ZRANB2 ARRB1
LIN7A DLG3
UBE2D3 RNF43
SLC9A3R1 SLC26A3
SLPI ELANE
JAK2 CSF3R
AKR1C3 ZHX1
MAPK3 PRKCE
PMS1 SBF2
MYO1B BRF2

PIGR RAB3B
RCC1 RANBP3
TSC2 FOXO1
STX4 SCRIB
PRKCB GSK3B
UBE2D2 TRIM8
FSTL3 INHBA
ANAPC4 ANAPC2
PRKCB GSK3A
PRKACA HAND2
FGFR3 EPHA4
MPP6 SNX9
CSRP3 NHLH1
IKBKE VMA21
RPS6KA4 MAPK3
KRT31 TWF2
CBX4 CTBP1
MYC UTP15
RIPK2 ATP5D
TRIM26 SRRM2
WASL VASP
MAPK8 BCL2L1
ZAP70 SH3BP2
MEIS1 HOXB8
MLL RNF2
MAX MXD1
TUBB TTBK1
TP53 PHB
TMEM33 PHLDA3
XRCC5 PDX1
TBPL1 C2ORF18
APPL1 RAB21
APPL1 RAB22A
CTNNB1 DLG5
NPM1 CDT1
PGD USPL1
PARP1 SMARCA1
EMD SMARCC2
S100P CACYBP
CDK2 UBE2A

MBL2 MAD2L1
BUB1 CDK1
TCERG1 RNASEH2A
SUMO1 KCNC3
MSX1 RGS7
HSPA1B PAX8
BZW1 CMYA5
FYN CASP3
PTK2 ATXN2
NPEPPSOTUD4
PPP1R12A PPP1CB
CSDE1 CDC42
MGEA5 SIN3A
HERPUD1 UBQLN1
CD46 CD81
GOLGA3 GOPC
EIF3F EIF4G1
PSMA5 PLK1
ETS1 RBBP6
E2F4 ARID3A
PRKCZ AFAP1
FKBP5 USP49
HSPA1B MME
CHEK1 RELA
GABARAPL2 PSMD1
DLG1 PBK
FUS USF2
YWHAE RASAL3
OS9 TRPV1
FYN EPS15
MYBL2 CDK2
ARID4B SIN3A
ILK MTHFD1L
APP ACHE
RAD21 SMARCA5
CDK6 FBXO7
RPN1 KIAA0087
CREBBP CARM1
MAVS ATG5
CRKL MSL1

NR0B2 DDX20
CSTF1 USP15
MAPT ARHGEF40
CTNNB1 BRIX1
ASIP F11R
RPL22 MAPK14
MAFG VIM
NGFR NGFRAP1
MAGEA11 WTAP
PIAS2 NR3C1
MON1AVPS33A
DBT USP16
ISG15 ENO1
FAM107A TXN
SREBF1MED13
EPB41 PAICS
ACTN1 RAVR1
JAK1 GNB2L1
LMNA SRRM2
ANXA2 PLA1A
PRPF40A UBE2I
FNIP1 PRKAB1
LRP1 PDIA2
PRDX3 SUMO4
ADCYAP1 SHH
GNG2 GNB1
APIG1 SYP
BMP2 BMPER
SHC1 DAG1
PIK3R1 EPHA2
CRK DDX41
PRMT5 SKI
YWHAG SUV420H1
ACTA1 MAP1A
YWHAE GOLGB1
HSPA1B YWHAZ
EZR MAPK8
APC CSNK1A1
VIM FABP4
CCNK EFEMP2

YWHAQ CDKN1B
RPS15A GRB2
ALDOA TUBB
TGFB1I1 CSK
AKT1 RICTOR
SRF MYOCD
RPF1 RPAP3
HPCAL1 HMG20A
MEIS1 HOXB13
TRAF2 TRPC4AP
RPS27A UBQLN1
SMAD9 UBQLN4
SMARCC1 SMARCD1
SOD2 FAM192A
IRF6 RFX3
CD55 GPLD1
LYPLA2 SCMH1
PRKCZ DNAJC14
STAT5A JAK3
RPS27A USP18
LYN TRAT1
FGB SERPINA5
RIPK2 TLR2
EGFR TLN1
PAICS MOBKL3
AKT1 USP8
LMAN1 MCFD2
RNF43 KDM5B
SLMAP ZRANB1
PSMB4 OAZ1
GOSR2 USO1
SNW1 PCBD2
POU2F1 PKNOX1
PHKG1 CTRC
DAND5 KLF6
SF3A1 USP30
GTF2E2 EXOC4
PTPRB GRIN2B
TGFB1 DCN
PITPNM1 RHOA

UBE2U ZSWIM2
DAP3 HIF1A
RNF123 MAP1LC3C
FXR2 GKAP1
EXOSC10 HIATL1
ESR1 CHD3
OTUD4 RPTN
WWP2 EWSR1
CDKN1A PSME3
NCK1 GAD1
VASP DMRTB1
ANKRD28 NCL
HUWE1 VCPIP1
HLA-DQA1 SH3GL2
CD4 CD81
EZR WWOX
AIP PTGES3
SNRPB2 MCC
FGR PLAUR
PAK2 CTTN
NR3C1 SSB
INSL6 DDIT4
SRC KHDRBS1
MRE11A DDX1
MDM4 YWHAH
HDAC3 BAG1
ZAP70 FCRL3
BECN1 UVRAG
GNAI3 PTPRU
PCYT1A MAPK6
EP300 JDP2
FASLG NCKIPSD
CDK8 SMARCA2
JAK2 JAK3
TANK IRF7
CSE1L TMEM62
PRKCI CDC42
CDH2 CTNND2
MYC IPO4
ACTR3 TRAF6

PPFIA1 ERC1
DBT TNFRSF1B
CCDC91 EWSR1
CUL2 ZYG11B
HAT1 ASF1B
EGF FNBP1
VAMP1 VAPA
EZR CLIC5
SENP8 AKIP1
INCENP AURKC
DTX1 DTX3
GTF2B NOLC1
HCK FASLG
SHC1 SOS1
SNX4 INSR
NUCB1 GNAS
PRKCH RPL27A
HLA-B RAB14
CAPN2 CASP9
TAF9 SUGP1
PDGFRB PTK2
DAND5 RBL1
TUBB MARK4
AP3D1 MYC
UBE2K DSTYK
MAPK8 PRKD1
SHC1 SOS2
XPO5 PHLDA3
UBE2D1 MIB1
PAK4 DLST
UNC45A PHLDA3
FLT1 PTK2B
ESR1 POU4F2
FYN VAV1
CSNK2A1 CAV1
SMAD9 METAP1
ABL1 VPS13A
EP300 ING5
CDC42 ARHGAP26
CASP4 CASP10

HMGA1NFKB1
BMPR1B ARHGEF6
EFEMP2 RHPN1
PRDX3 MAGEA11
APC IMMT
FCGR2B BLK
DCC RPL5
SKP2 MYC
DCC RPL28
ZNF770 USP20
HADHA RIPK3
PEBP1 PRKCD
SEC22BSTX18
SDCBP NFASC
MYH8 CDK2
CNOT3 ID3
CASP3 MEF2A
TLE4 HDAC1
PRKCG AFAP1
GNB3 GNG13
RAD17 MCM7
RAC1 TIAM1
RRAS MLLT4
IPO8 EIF2C4
RB1 TRAP1
MPZL1 PTPN11
MAPK1 LRPAP1
NDUFS2 NDUFS3
FASLG ITSN2
C1QA DCN
BRCA1 E2F1
NAE1 UBA3
SOD2 WBP5
PSMA3 TNFRSF14
TGFB1 NUP37
PPOX HAP1
HLA-A DERL1
SAP18 GLI3
PARK2 STUB1
HAP1 GIT1

EPB41 DHX9
TP53 THRB
MLH1 ATM
TEC PIK3R3
LDOC1 PLEKHF2
MCC VHL
ESR1 AKAP13
LMNA STAC
TGFBR1 EIF2AK4
DDB1 COPS6
IKBKB PRKDC
CDC42 DOCK9
BIN1 AP2A2
NCBP2 EIF4G1
MAP3K7 TAB1
SYNJ1 PACSIN2
SYNCRIP PTPN11
DEPDC1B SUPT16H
PTPN6 CD300LF
NMI STAT4
GYG1 TRIM7
TP53 RFC1
MAP3K3 UACA
IL6 ZBTB16
SEPT6 SEPT1
LYN CD72
RGS12 MAP2K2
EPB42 ANK2
LCP1 AIF1
HIST1H1C AEBP2
PIN1 DDB1
KIF2A KLC1
PRPF4 SNRNP40
VAV1 ABI1
UBE2L3 UBE3A
LAPTM5 DCUN1D1
PAXIP1 ECSIT
MOCS2 ABCF3
SNAP29NSF
CHD4 SRRM1

MX1 ACTB
CDC23 ANAPC4
VAMP3 VAMP8
MLC1 DAPK2
BUB3 USP7
AKAP3 ROPN1
CAPN1 CBL
NUDT21 PAPOLA
LCK PAG1
CD2BP2 SNRPB
FBL CD40
DNM1 CTTN
RASSF2RASSF1
MAP3K3 MYLK2
KDM5CRING1
FCN1 TGFB1
KRT15 ZNF638
TAF11 TAF7
BIN1 ITGA1
SOCS3 PPP3CB
RPL35AMPG
TP53 SMAD3
PIAS2 MSX2
E2F2 SETD8
RIPK2 RPS14
TRIM29LZTS2
MAPK13 RANBP9
HOXA3 ALX4
CASP7 PRKCZ
HLA-B PTGES3
UBC NEDD8
HLA-DRA CD82
GAS7 FMNL1
DLGAP3 ABL1
GNB5 GNG4
SMARCB1 BAZ1B
UBE2D3 RNF4
APOH TP53
DDB1 DET1
ETS1 SPI1

ATP2B4TSC2
HSPD1 MAPK6
HIF1A SEPT9
MAGEB2 RPL36
TLR3 NDUFA2
CFLAR DEDD2
CDC42 PARD6B
CDC42 PARD6G
RAD52 ERCC4
ORM1 ALB
YWHAB LSR
ORC4 CCL2
YWHAB RALGPS2
ALB KLK3
CENPA RNF2
GSN AR
SH2B2 SHC1
PHF2 DHX9
NFKB1 PAK2
NCK2 SF3B4
DARS PIK3R1
HLA-B ACTR1A
HLA-B ACTR2
TRAPPC2 ENO1
RACGAP1 CELSR3
PFKL DMWD
CAMTA2 HDAC5
CD4 IL16
PLK1 MYT1
HIF1A NAA11
CLN3 SLC25A22
RAP2A TGFBR1
PIN1 MAP3K11
A2M FARSA
ABI3 WASF2
PIAS1 WNK1
CNOT3 CNOT1
NFKB1 MAP2K5
FASN MAP3K1
SERPINE2 COL4A4

SYP GRB2
AXIN1 ARRB1
C3 CD46
SIAH2 POU2AF1
ZWINT BECN1
CREB1 EP300
MSX1 AES
PLAU SERPINE2
GRB2 ITK
ANXA13 RPF1
MPHOSPH6 DYNLRB1
MCC DUSP3
SCNN1G STX1A
PDE6D ARL15
HSP90AA1 CRNKL1
SMURF1 ING1
TNFAIP1 KCTD13
PRKCB RBCK1
GH1 NUDT5
TPT1 EEF1A1
GDF9 FXVD6
SIAH2 PIAS3
PRPF40A NCKAP1L
FBP1 LNX1
PAX6 SOX3
CALR MTNR1A
PRKG2 MYLK
STAT5A BTK
NDUFS5 NR4A2
TUBB TGM2
HADHA TRAF6
ATXN1 MYST3
DOM3Z EXOSC4
HNRNPR FARSA
MSH3 XPA
VIM HABP4
FOS COPS5
ATN1 KRT31
GNB5 FBXL15
FAS MAPK8

SP2 NKX3-1
NCDN GSTK1
APP PIN1
IKBKE SLK
U2AF1 MEPCE
RAF1 YWHAH
S100B S100A1
DEC1 MDM2
NRAS ACVR1
PSEN2 KCNIP4
MYC CHD5
HSPD1 BAK1
RPF1 DAZAP2
PHB2 ATXN10
GNAI3 RGS18
MYL6B RIPK3
HRAS TTC1
TRAF2 RB1CC1
FBXL18KRTAP4-12
UBE2D2 RPS27A
MYB CLTC
MECP2 HDAC1
SMURF1 ANAPC5
DMC1 RAD54B
LONP1 RNF32
MAPT ACTB
EXOC6 ECSIT
UQCRC2 RTN4
DLGAP3 CRK
GIPC1 TYRP1
CUL2 RNF7
ATIC VHL
PJA2 USP46
CDC7 ORC1
SUPT5H MED31
PRKD3 VAMP2
PAX9 ZNF580
CDH1 VCL
GNRH1 MEP1A
PRRC2A DDX20

NCAPD2 NEK6
AURKAMYCN
EGFR USP8
HLA-B PCBP1
POLR2H RUVBL2
DLG1 DLG3
STX1A VPS11
KRT4 P2RY12
BCR TJP2
DDB1 BRAP
IRS1 NISCH
NUMA1GPSM2
EPB41 SMAD3
YWHAE KIAA0232
TEC PTPN18
BTK TLR8
MCM3AP MCM3
HNRNPC ZNF581
SERPINB9 EEF1A1
PCGF2 UBE2U
FRS3 MAPK1
CPSF7 PRMT2
LSM3 MEPCE
ATP5J2 TRAF6
ABL1 GNS
CDC27 CASP3
YWHAE GTF2B
ATXN1 LRSAM1
RALA ARF6
PPP1R15A LYN
CDC23 ANAPC10
RING1 FHL1
SLC11A2 NEDD4L
AURKASOD2
HNRNPC RALYL
FAS PTPN6
KLHL13 USP25
RPAP2 RPAP3
GJB1 CAV1
ALDH18A1 ZRANB1

PIK3CDKITLG
GCN1L1 CDC5L
HTR2A DLG4
IGF1 IGFBP4
REN CTSB
BMP6 BMPR1A
AGTR1 ARRB1
SRRM2 MRPS23
EXOSC4 EXOSC3
NFKBIB POLR1B
RAC1 RCC2
VIM HAP1
GSTP1 PTN
PPARG NR0B1
VIM ATN1
FYN FOXF2
SCGB3A1 MARCO
SHBG MXD4
NXF3 NXT1
DOM3Z UPF1
GRIN2D MAP2K2
TNKS NUMA1
CHRNA1 CHRND
YWHAQ LUC7L2
TGDS NCK1
COL1A1 PKD1
SRRM2 PPIL1
SART1 SF3A2
CYB5B TRAF6
KIF1C YWHAG
COPS6 MYCBP
VCP HERPUD1
HMGA2SMAD3
SRF CAMK2A
KIRREL3 NPHS2
TOB1 SMAD4
MAML1 MAML3
KIT CSF2RB
DAND5 PFDN5
ACOX3 SMURF2

CA12 CUX1
WDR89 POLR3F
POLR1A POLR2H
RADIL SMYD2
BCL2L1BAK1
SERPINA3 DNAJC1
ACVR2A SYNJ2BP
UBR5 UBE2E2
SNRNP200 PIN1
RBPMS LZTS2
NCK2 NCKIPSD
WDR48 ATAD5
ABL1 PRKD1
DYNC1H1 DYNLT3
FN1 COL1A2
MAP1B DYNLL1
DNTT CUL3
KRAS RAP1GDS1
NPPA EPB41
MED6 MED10
PPP5C CPNE1
CCNA1 RBL2
FDPS ATXN1
OXT TXNDC17
CRK PNMA2
ACTR1A DCTN1
GFI1B PDLIM5
HCFC1 PDCD2
IGHG1 CD40LG
POLR2C CTR9
GZMB IGF2R
KRT15 RIBC2
GFAP CEP76
AP2S1 AP2B1
STAT5A PPP2CA
TRAF4 SIGLEC7
YWHAB SLC4A7
SDC4 PRKCD
RANBP2 LSM14A
NEK8 BICD2

SPA17 ROPN1
GABARAPL2 KBTBD6
AKT2 AKT1S1
VHL ICT1
CBX6 RNF2
SMARCC2 TOPORS
RAD23A EP300
PPP1CAZFYVE16
GBAS NAMPT
CDH1 MAD2L2
CCNT2 PKN1
RBBP7 DPEP2
TAL1 RPS27A
BCL2 BCL2L14
MEF2D CCDC78
KAT5 PITX2
RAC1 PAK7
VIL1 ACTG1
SMAD9 MAN1C1
CTCF CHD7
GADD45G CDAN1
RPS27AAKAP8L
MYC CSNK2A1
BMPR1B TNNT1
ZNF24 ZNF638
CSF1 SLA2
EPHB6 MLLT4
CRK CNTNAP1
SIRT1 ATG5
PTN KPNB1
TACR3 TAC3
SUMO2 EXOSC9
CUL3 KBTBD7
PFN2 VHL
TCEA1 DDX46
ITGA1 AUP1
SNAP23STX5
CAV1 MYRIP
UBE2I TRIM55
ACTN1 WNK1

APP NAE1
HGS STAT1
UBE2I TRIM54
STAT5A PTPN11
CRK RPP38
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AP2M1 MEGF10
STK16 ADAMTSL4
SRSF1 RRP1
TSC2 SMAD3
PRKAR1A STXBPI
CDH2 ACTA1
SYNCRIP MEPCE
C3ORF26 GSTK1
SELL EMCN
INSL6 SMPD3
PICALM CASP8
RBPMS ARHGAP9
ABLIM1 TRAF2
EIF4E2 YWHAZ
WBP2 SEPT3
RADIL FGFR3
CDC25C YWHAZ
PEX12 PEX5
SGK1 KCNJ1
MAP2K6 RELA
GNAI3 LPAR1
NMI NECAP2
KAT5 TBX5
BCL2L1NLRP1
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RXRA MED25
CCR10 GRB2
SHFM1 PCID2
ACTN1 LPP
SOX18 MEF2C
EPB41 PCMT1
TXNRD1 TXNDC17
ADRB2 AKAP5
KIF3B IFT20

MITF PATZ1
SERPINF2 SERPINB12
STX6 EEA1
CRKL STAT5B
ZNF193 GRB2
AURKACHFR
CBFB C12ORF11
CD8A HLA-A
ACTA1 USP6NL
PLG THBS1
ESR1 KIF1A
RPS27ASH3KBP1
CCDC24 DISC1
EFS PTPN12
KALRN PRKCB
STAMBP CLTC
MFSD3 MDFI
PRKACG RYR2
TRIP6 POM121
USP11 GIGYF2
RUNX2 THOC4
STX1A SYT4
BNIP3L EWSR1
SSTR4 SST
VHL RPL37A
GNAI2 AGTR2
RPL22 NSFL1C
CAV1 DMBT1
SNAP23STX3
CUL4B COPS5
FLNB GP1BA
LPA FBLN5
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ZBED1 RENBP
FOXE1 PLCB3
FGFBP1UBQLN4
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EPM2A GSK3B
YKT6 STX5

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MAPK1 DUSP22
CSNK2A1 CREM
DOK1 PTPRH
CTNNB1 PARD3
NFKB1 SFPQ
MLH1 SELENBP1
WDR1 CARD11
ARR3 ARRB1
CNTN2 VAC14
LRPPRC CECR2
MYO1C MAP3K3
ADCY7 PRKCD
FYN GRIN2A
MMP7 ELN
CSN3 COPS7A
ITGB1 VCP
MYH9 MYBPC3
TP53 MAD2L1BP
CCNB1 ZC3HC1
CBX3 TRIM28
NIN C14ORF166
CTSG CXCR4
RB1 TAF1
SMAD9 HEYL
SAP18 SUFU
FYN GNS
HADHA PRKAB1
SEC16ANFKB2
SNW1 ASCC2
FYN CNTN1
TCP1 PPP4C
ADCY5 ADCY2
DDX11 WNK1
RUNX3 CBF3
PLG CXCL2
SERPINB9 COPS6
ESR1 MED23
PDLIM1 AGK
ACAN LUM

TOP1 UBE2I
PSMC3 UCHL5
FASLG ARHGAP9
ZNF225 CDKN2A
CD1A B2M
SDCBP STX1A
LGALS9 CTNNB1
CD8A HLA-B
ANXA5 EIF4G1
KLKB1 HGF
ORC5 ORC1
PDGFRB PTPN12
ORC5 ORC2
VAV1 PLCG2
CDK9 RPS4X
RAF1 KRT18
STAT3 RBM8A
CDH5 PKP4
NR2F1 AHR
YWHAB PPFIBP1
AGRP GHRL
BCAP31 DERL1
MED26 MED13
TP53BP2 BECN1
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PCBD1 ATG14
SNRPF MAP3K1
MAPRE1 CLASP1
NUP98 USP7
PRKCA INADL
TBC1D4 EP400
CCNT1 ESR1
AKR1C3 ACIN1
ZNHIT3 PITX2
CANX PMP22
TLE1 EN1
RIPK2 ECHS1
APOH CDC42
PAN2 MRPL39
CFTR STX1A

LIMK1 BMPR2
MSX2 MAGED1
MAP3K8 REL
CDC16 MAD2L1
TROVE2 RAB11FIP5
YLPM1 RB1CC1
CDC27 PPP5C
SMAP2 TP63
USP14 PSMD2
UBE2U PJA1
BMPR1B BMP7
PLCG1 SOS2
ARL4D MAPK8IP3
SMAP2 HLA-B
TULP2 EWSR1
UBC TAB1
KRT15 FAM164C
PLCG1 SOS1
IFNGR2DNAJA3
INSR GRB2
PIM1 CDKN1A
SKIL SPARCL1
FOS DDX17
PSMA7 EGFR
PTPN12 GAB1
USHBP1 GCC1
ITGB1 YWHAB
PACSIN1 PHF15
FBXO28 TRAF2
YWHAG RAB11FIP5
COIL NOLC1
LOR SPRR3
AMBP PIK3CA
MCC SMC3
RAE1 PRKD2
NR2F6 GNL3
VAV2 SF3A3
RAC1 KIAA1409
BUB1B ANAPC7
NOTCH2 CNTN1

CXCL2 CXCR2
SKP2 CDH1
CXCL2 CXCR1
RPLP2 MAP3K1
USP8 BIRC6
RARA MBD1
CLN3 SEC61A2
ATP5J2 PRKAB1
TK2 CDK1
CCR10 CXCL12
KRAS PIK3CG
TUBB MAP6
RPA2 CRMP1
PARP9 DTX3L
YWHAZ SOS2
PMS1 SMC3
HBP1 SAP30
PLSCR1IP6K2
RELA GCN1L1
LDB2 LMO3
CREBBP SMARCC2
EPHB3 EFNB3
WNK1 DKK3
PPM1G USP49
CDC42 KIAA2026
CD2BP2 EFTUD2
CTNND1 ACTA1
KCNJ12DTNA
YWHAZ RICTOR
NCK2 ERBB4
TNFRSF1B RPL23
FBP1 FXR2
ATXN1 KIAA0913
ESR1 FOXO1
PDCD1 CD274
APC RANBP9
APC ERBB2IP
MTA2 YY1
UBC ELAVL1
SLC25A12 C20ORF24

HRAS RIT2
HDAC4 LZTR1
TRAP1 SMAD4
PIN1 FTSJ1
AIRE NCK1
CEBPB RUNX1
ZNF200 PPARGC1B
HPN HGF
RPS19 SRRM2
SETDB1 NIPSNAP3A
FLNA TTN
PRPF40A PIAS4
PPP2CBRELA
GNAI2 ADCY1
TARBP2 HDHD2
SPTAN1 PLEC
ATF3 ZNF182
ILF3 XPO5
CASP10DEDD2
AARS2 MEGF10
HMGCL MS4A7
S100P S100A1
TSC22D1 TBRG4
PIK3R1 FLT3
SYTL3 NRXN1
CCNA2 CDC20
HLA-B PSME3
ISG15 ERCC2
AP1G1 RAB14
SQSTM1 MUTED
FUNDC2 ASCC2
ZNRF2 UBE2D4
HOXA10 FOXO1
TCF3 MAPKAPK2
CUL5 DCUN1D1
CASP4 NOD2
ERBB3 ERBB4
HSP90AA1 SIM1
CDC42 MYO6
YWHAE DISC1

CHEK1 PCNA
PIK3R1 TGFBR1
ARHGAP15 SMURF1
PPP1R15A ZNF512B
CSF2 CSF2RA
ESR1 PTPN6
SPOP HCST
SNX2 ACVR2B
ESR1 SHC1
AZU1 CLEC4G
SYP STX1A
TPT1 TSC22D1
APBB1 LRP2
TOP2B TOPBP1
CEACAM1 MAP3K10
AURKBINCENP
GRIN3B DLG4
JUP CDH15
CTSB SERPINB13
ARPC2 PRPF8
KCNN4 RPS27A
SRC PPARA
ELAVL3 EWSR1
PCNT CEP55
CDK9 ARID3B
DRAP1 PIK3R3
UBE2L6 RNF40
RTN4R RTN4
EIF4A2 IBTK
SET EP300
SH2D1B SLAMF1
RARA NRIP2
SRC SOS2
EGFR VAPA
RAD9B HUS1B
GRB2 UGP2
RBMS2 FAM69B
STXBP1 CDK5
CXCR1 GNA15
BLMH KBTBD7

C4ORF43 IKBKG
HSP90AB1 PHB
HDAC4 PPP2R4
TP53RKTPRKB
TERF1 MAPRE1
QKI USH1C
SHBG FYTTD1
SRC SOS1
MAPT SPTB
SMAD9 ACTB
PAX6 RGS3
ABL1 AKAP6
CDC42 MACF1
SFXN1 IKBKG
TSC1 DOCK7
DSPP PPP4C
YWHAG PIK3C3
NFKB1 C1QBP
SMAD3 RUNX3
WWP2 DIDO1
RPAP1 POLR3B
CAV1 BTK
KRT18 BBS4
CASP3 GORASP1
PTPN6 HOXA10
RNPS1 U2AF1
ITGAX JAM3
MYL2 PPP1R12C
ZSCAN1 ZNF407
EIF3F HLA-B
APBB1 SF3A3
THOP1 MPHOSPH6
APP GSN
AURKBBIRC6
NCBP1 POLDIP3
WASF1 C3ORF10
VCAN TNR
GPR37 RPS27A
EFNA2 ZHX1
SSSCA1C20ORF195

ATM RHEB
PTPRC CSK
RPA4 MUTYH
ACTC1 MIB2
SFPQ SMARCD1
CTBP1 HDAC2
GATA3 MED1
MIB2 JAG2
PGGT1B RHOB
CHGB UBTF
CDK2 CASP4
ESR1 KDM5A
MOBKL3 SIKE1
EP300 EPAS1
ESR1 MPG
GRB2 GOLGA2
A2M KLK3
GRB2 GOLGA3
CLDN12 STRN4
TUBB6 TRAF6
MARCH3 UBE2E2
EP300 TSG101
GRINL1A ZNF410
NCL CASP8
AMOT YAP1
BCR ATP2B1
SMURF1 STUB1
CCNE2 SUMO3
VIM IKBKG
MTAP MYLIP
NCOA2 NCOA1
KLF1 SMARCD1
HNRNPA1 HNRNPA2B1
IGF1 IGFALS
HMGB1 INSL6
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GNB2L1 ST7
EGFR DOK5
GJB2 CAV1
RBBP5 KIAA1967

KAT5 BARD1
RBP1 RBBP7
SNAP29CD7
RPS14 NFKB2
STX7 NAPA
EP300 ZFPM2
ZEB1 SMAD1
PTPRC MBL2
ZEB1 SMAD2
UTRN PPIA
PDGFRB VAV2
NCK1 NTRK2
DUSP6 ZNF182
UBE2I CDCA8
NDC80 AURKA
MCM7 UBE3A
CDKN1A HDAC4
REV3L MAD2L1
KCTD17 NIF3L1
KEL XK
NOTCH1 RPS27A
PRNP RNPC3
PRKCE PDLIM5
CDC42 SH3D19
CTBP1 CREBBP
POLR3D ZNF496
PRICKLE2 SMURF2
SNAPIN SPAG5
SKIV2L2 EXOSC10
YWHAG C5ORF25
VIM RAD23B
RPLP2 MAP3K14
NOTCH1 RPS27A
VIM RAD23A
CEBPD CEBPE
YWHAB TESK1
AMOTL2 MAD1L1
HDLBP SOS1
CRKL KIDINS220
GABPB2 TDRD7

EIF3F SMAD9
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HDAC2 ANTXR1
MAP4K4 DCTN1
KHDRBS1 PRMT1
FANCMFANCF
RNF141 SMURF1
IPO9 PRKAB1
PTPN1 STAT3
GTF3C1POLR3C
RNF2 CBX8
MMP14 ADI1
TSC2 CAV1
EIF4A2 CMBL
EEF1E1 ATR
SRC NMT1
CLN3 SIGMAR1
MYL12B MYLIP
ATP1B1SMAD2
EIF4A2 TARS2
EP300 PRMT1
APBB1 TFCP2
AIMP2 KARS
PSMD12 PSMD13
RAE1 HNRNPUL1
MBTPS1 ATF6B
ABL1 PDIA2
FOS ATF2
DDB1 CAND1
CDK13 ALK
RAE1 SF3A3
ERBB2 SH3BGRL3
RASA1 G3BP1
U2AF2 SRPK1
STIP1 NPAT
GUCY1A2 DLG2
BLOC1S3 DTNBP1
RHOA ARHGEF25
KRAS SHOC2
CANX MAP2K4

GRB2 DNAJA3
PRKCB GJA1
VHL C19ORF10
MAPK8 WWOX
PCBD1 ANKRD57
CUL4A COPS5
NKX2-1 PTRF
SOX10 ALX4
CAV1 PTPN11
MDM2 TUBA1C
GRB2 RBM33
PJA1 NDN
SYN1 GRB2
MCM2 HIST3H3
GSK3A SPG21
USO1 STXBP1
SLC9A1 WNK1
OTUD4 BRF2
NDUFB8 PFN2
RAB3A RIMS2
SUMO3 TDG
MLH1 PARP12
PLA2G1B PLAA
SYVN1 DERL2
XRN2 EIF3L
SORBS3 RTKN
CCT8 MAP3K3
MARCH6 SHC1
RARA KAT2B
GORASP2 RAD54B
CDC7 CHAF1A
GSTP1 TGM2
CCNE1 MRE11A
KAT5 HDAC7
RB1 MCM7
RALYL PSMF1
MAPK3 CASP8
RBPMS CDC23
HTT TRIP10
UBE2N RNF167

SIN3B PBX1
GEMIN4 KARS
MDFI EWSR1
LAMA5 MEP1A
GRB2 OTUD5
PRMT5 PRDM1
HIST1H4I KAT5
AR PSPC1
ATRX DAXX
UFM1 CDK5RAP3
COL1A2 ITGA2B
CLN3 GEMIN4
UBR5 KPNB1
IRS1 PTK2
KEAP1 FAM123B
GDF9 BMPR1A
PPP1R2 PPP1CA
MDFI FASTK
MAP2K3 PKN1
NEFL PKN1
SCRIB LPP
CENPF NUP133
ATM TELO2
EXOSC8 EXOSC4
GAST TF
CHMP4B PTPN23
HIST3H3 GTF3C4
FCGR3B IGHG1
ACTN1 CDH1
PCCA PCCB
TPD52 TPD52L1
CDC34 CSNK2B
PPP1R2 PPP1CB
CPNE4 PITPNM2
SYK HDAC2
MYO6 GIPC1
POU4F1 EWSR1
GHR NCOA6
CALM2 RELA
NELF GF11B

FTH1 FXR2
HBM DKK1
BUB1 NDEL1
FOS RELA
MAP2K3 MAPK14
GAPDHTBK1
HAP1 PDCD7
VAV2 GAPVD1
CCND1 CDKN1A
UBE2C RANBP9
SNAP23SCGN
MAPK13 MAPKAPK5
MAP3K1 TUBB6
MAGI1 IGSF5
TAF4 TBPL1
PIN1 GGA2
ATXN1 RNF31
GYS1 PRKACA
ASAP2 RAN
PRPF3 GTPBP3
DRD2 PPP1R9B
RAP1A TCEB3
EDNRA ARRB1
TAF10 ATXN7L3
HLA-A EFHD1
CYP27B1 NCOA4
LRPPRC USP49
EXOSC7 EXOSC8
BACE1 RANBP9
EPB41 PCBD1
ATXN1 BEND2
VRK2 MAPK8IP1
RFC1 BRCA1
CDK5RAP3 DISC1
IFFO1 ACAP1
RBBP6 ANAPC16
STT3A ITM2C
RFC3 CHTF8
THRA CDK8
ATP1A1 TRADD

BECN1 TBC1D7
OTUD4 TMBIM4
SLC3A2ARF6
ASS1 ASCC2
ACTR3 WASF2
PRKCA GRIA4
PSMC3 TRAF6
SHC1 CDH5
PTPRG PPFIA1
PPP1CABAX
PRKCA SLC6A9
TAL1 CHD3
UBC TRADD
RAC1 SET
PPP1CABCL2L1
ATF7 MITD1
PSMD4 ADRM1
SCAND1 ZNF434
CFL1 YWHAZ
CREBBP GCM1
NID1 COL13A1
RCVRN CAV1
RIPK2 HADHB
TP53 GSTM4
RAB6A HLA-B
MYL6 MAP3K3
KRT14 DST
OSM COL4A3
PARN MPHOSPH6
YWHAG LBR
GABARAP STK3
CDH2 PTPRJ
DHX9 PRMT1
USO1 SEC22A
VCL ABI2
GRB2 BICD1
GAPDHSTIP1
NEFH MAPK1
PDGFRB VAV1
TRIM23GEM

WDR5 ASH2L
PDE4DIP TNIK
ARNTL KAT2B
NFKB1 ITGB3BP
MATN3 MATN1
EFNB2 RHBDL2
FGF2 FGFR1
MAPK14 CCDC97
AP1G2 UBE2Z
HTR2C ARRB2
UBE2I SPECC1L
MEN1 HCFC2
USP22 TAF6L
FST ADAM8
RAB1A TBC1D17
DHX15 SF3A2
EIF4A3 TCEA2
BCL2L1 RTN1
MYH10 USP45
CD59 CD9
CDK1 EEF1D
RBL1 NEK6
HMGB1 AGER
RND3 UBXLN11
ADRA1B FLNC
RBL1 SUMO2
KCNJ2 DLG1
DYNLL1 MTR
AR XRCC5
NASP NFYC
MAP3K3 MMRN2
YWHAQ EPB41L3
KIAA1267 USHBP1
GALK1 DMWD
MYO6 RIPK3
HSP90AA1 IKBKE
EPS15 STON2
PEX12 PEX10
MUC1 CTNNA1
PTPN11 ERBB4

RFC1 MSH2
PARP1 MED17
SOCS3 PRLR
PFDN1 TMEM90B
BMPR1B GDF9
GP1BA ITGAM
CDK9 CSNK2B
CTNND1 ZBTB33
HGS PPP1R16A
VCP TOMM34
SERPINH1 C2ORF18
MYST2 PHF16
PRLR YWHAG
CASP3 PTGES3
TP73 STAG1
CLN3 TRIP13
GHR PTPN2
HRK MCL1
RNF165 UBE2W
DCTN1 BICD1
IPO5 RAG2
AR DAXX
FEZ1 RAB3GAP2
NFKB1 NOTCH1
LYN CDKN1B
SUV39H1 PML
GLI3 CREBBP
PARK2 DLG1
CREB1 HPS6
ITGA2 FHL2
ATRX KIAA1377
ZHX3 ZHX1
HRK BCL2L1
TTK CDCA8
NSF NAPA
AKAP17A CCDC85B
RAC1 DOCK8
IRAK1 PELI3
HSPE1 FTSJ1
IFNAR1 AP2M1

SYNPO WNK1
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TSC22D1 MTHFD1L
TNFSF11 NFKBIA
ERBB2 HSP90B1
TRIP13 GPSM1
PRKCB CYTH2
PRKACA TRIP11
PRKACA TRIP10
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HDAC1 TGIF2
RPL28 SMAD4
RNF8 ORC2
RNASEH2A BRCA1
TAF4 CREM
PTP4A3 NUP93
CLU PPARG
ISL1 LHX3
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TSC2 AKT3
CFB CFP
SIAH2 SNCAIP
HNRNPK PRKCD
GABARAP OPRK1
FURIN DSG3
MCM3AP APC
PIK3C3 PIK3R4
NQO1 DNAJB1
RHEB TSC1
EIF1AY EIF5B
STK3 LATS2
SUPT7LMED1
SOX10 OLIG2
CTBP1 KAT2B
MAT2A PRKAB1
HNF1A CALM2
MAPK3 KSR2
INHBB ACVR1C
UBE2A CDKN2A
ATAD3A RIPK3

SMAD3 CUL1
VAV1 SIAH1
SFXN1 PHLDA3
DLST IKBKE
SMAD3 PEX6
GRB2 PPP3CA
EXTL3 CRK
MYC CTPS
SNRNP200 MCC
GRK5 SNCB
RFC3 CHTF18
VPS11 GGA3
ERN1 BAX
CDH1 PPP1CA
HTR2A MAP1A
ESR1 NANOS3
HNRNPC CSNK2A1
GJA1 S100A1
BRCA1 DNAJA3
MLH1 SPTAN1
LYST NCDN
SUZ12 MTF2
ACTR2 WASF2
SGSM2 GDPD2
SIVA1 BCL2L1
NFKB1 RPS3
MECOM SMAD1
EXOSC8 EXOSC3
EXOSC8 EXOSC5
MECOM SMAD2
ARL2 PPP2CB
TERF1 SMAD2
MYC PRDX1
HGS VMP1
RNASE4 PTEN
USO1 GBF1
PAFAH1B1 DNAI1
SUMO3 CUL3
RPS27A PRPF8
TUBA1A SPG20

DCAF8 GTPBP3
ACLY IKBKE
SMAD3 SMURF2
USP19 SEC61A2
ANK3 HOOK1
RPL35ANFKBIB
SGTA GHR
COPS2 COPS6
PIA PTPRN
MAP2 PRKAR2A
CASP3 CASP6
CASP3 CASP9
FBL CENPA
RABIF RAB15
IKZF1 NCOR2
HMGB1 CASP3
STK3 RASSF1
PBRM1 SMARCC2
RBP1 BRMS1L
IRS1 PRKCZ
BLK BCL2L1
CDC25B BRSK2
HBXIP UTP14A
GNAO1 CXCR5
SDSL TUBGCP4
HCFC1 TAF9
YWHAG PPP6R3
GATA4 JARID2
PTPN6 CUZD1
GRB2 ZNF274
INPPL1 INSR
EIF4B USP11
CDK4 CDKN2D
OXA1L MRPL48
CS ARF6
PRPF4BRBM23
RPS27AMIB1
SPTA1 ACTA1
THRB PRMT1
KDM1ASUMO2

ADAM19 ESF1
EWSR1 NINL
NEK6 MYO1A
SNCA MAPK8
GOLM1 NIPSNAP3A
SREK1 THRAP3
SNW1 JDP2
SUMO3 TP53BP2
ASAP2 PTK2B
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DCX PPP1CA
YWHAG ZNF295
EIF3E COPS7B
MAD2L1 CHFR
PRKAR2A AKAP7
DFFA TTN
MEP1B ALK
PRKACA SLC9A3R2
CHD4 USP36
UBE2W TRIM31
EPB41 SYCP2
EFNB1 SORBS1
VIM ZHX1
MYO6 RNF11
PGRMC1 DDOST
APBA1 CNTNAP4
ZNF18 PAK1
SAP30 ID3
TNFRSF19 TRAF6
C3 CFH
DPM1 DPM2
ALDH2 UBA5
CNBP IGF2BP2
SRC MYLK
PTPRF NID1
MYCBP2 RAPGEF2
CCDC85B KIAA1267
CCDC85B NUP54
BECN1 SMC1A
HEXIM1 RELA

OTX1 RBPMS
RPS27APOLQ
MAP4K4 PDE1A
APBA1 NRXN1
IL6ST LIFR
HIST3H3 NAP1L4
KAT5 CCT7
RPS24 MAP3K14
TRPC5 TRPC6
SERPINA3 MMP1
SH2D3C SNCAIP
BRCA1 FLI1
DUSP2 MAPK14
USP14 PPP3CA
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TPSAB1 NCK1
SLC2A4CFL1
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EPOR CSF2RB
NCK1 PKN2
PIAS1 GLUL
RAE1 SMC3
ZNF7 RPL7
CDKN1A C1ORF123
CDH2 PTPRG
UBE2I RANBP9
CDH2 PTPRB
HGS STAM
GNAI3 RIC8A
DAND5 GATA4
CDH1 AJAP1
GJA1 MAPK3
NEK6 COPG2
UBE2D1 ZNRF2
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GDF9 RSRC1
ARHGAP18 MPHOSPH6
RAC1 PTK2

PML SUMO3
BCL2 RTN4
EPS15 RPF1
ARRB2 OPRD1
MECOM CTBP1
ORC5 RPA2
PRKCB NUMB
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HSPA5 NFKB1
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ELANE NOTCH2NL
KHDRBS1 SH3GL1
CDK1 PPP1CA
MMP14 LIMK1
EPB41 HSPE1
HSP90AB1 NUMA1
SLC25A6 CHD3
PRKCA GABRG2
PIP4K2A BTK
RNF2 SMURF2
CDK2 POLD1
PLIN3 SMAD2
RND2 ARHGAP5
ESR1 MSH6
KAT5 SCFD1
YWHAG CEP250
UBE2W TRIM8
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HIST1H4I MYST3
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TEC PIP5K1A
SFPQ WWOX
CREB1 MAPK14
RAN NXF1
KAT5 TRIB3
NUP188SLX4
RARA ITGB1BP2
THBS1 CORO1A
MCC COPB2
HSPD1 YWHAZ

ZFYVE9 LRP12
CBL F2RL1
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ATXN1 DNAJA3
HLA-B DAD1
SHC1 PTK2B
KRT20 FAM164C
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NUDT21 CD2BP2
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DSC3 PKP4
CBX5 TCEB3B
SRC PXN
OLFM2 ST13
EMX1 ALX4
TCF3 RALGAPA1
TRAF2 SPATA18
TH YWHAG
CD44 TIAM1
ASAP2 GRB2
TUBB RAB8B
RB1 MDM2
SNCA PARK7
SSBP2 LDB1
RHAG CD47
MAPK8 PXN
EXOSC2 DIS3
PTPRG GRIN2B
SUV39H1 HIST1H3J
THOC4 LEF1
TTI1 MTOR
HTRA2 PEA15
YWHAG CLINT1
GAK CDK5
CDKN2A CDKN2AIP
CBX4 FHL1
CCNE1 GSK3B

TGFB3 LTBP3
RNF168 RNF11
DEDD RANBP3
ALDH2 HSPD1
BMP4 STAP2
OBFC1 TUBGCP4
ESR1 STUB1
HCK PIK3R1
MAZ KEAP1
ABL1 CAT
CBX5 MIS12
DEDD USP22
RALA TSC2
HDAC1 LGALS12
PRNP PPARG
DYNC1I1 TUBB1
CRX CREBBP
TCF3 ID3
AP4M1 CD63
OAZ2 SLC25A21
MARS BRF2
PLS3 NFKB1
TECPR1 TTC15
TCERG1 CHD3
TCERG1 SF3A3
CDC42 RAC1
SDCBP SDC4
PAK2 ARHGEF7
UBE2D1 DZIP3
CHRM3 CSNK1A1
FSCN1 ACTR6
UBE2I UIMC1
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CTBP1 BCORL1
DHX9 GEMIN4
KDELRL1 SERINC3
MAP7 TRPV4
ACTC1 PRKCE
PDE5A PRKG1
IKBKE C6ORF211

PMS1 CDC5L
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GSK3A BICD1
PRRC2B RERE
ZFYVE9 SMAD2
TCEB2 ASB2
PAK2 GIT2
ENO2 SUMO4
HOXB9 EP300
PRNP AIFM3
GSPT1 UPF1
UBE2D1 DTX1
BCR WDR48
SNAI1 HDAC2
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CRADD RIPK1
VIM RIPK3
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CDK8 SMARCC2
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COL1A1 BGN
EFS PIK3R1
FES DPYSL5
AKAP5 PRKAR2B
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HDAC1 NR2E1
TRAF2 NIF3L1
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ELAVL1 PAIP2
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MCC MYH10
DLG1 AMOT
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CCBP2 CCL28
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ERBB2 BTC
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MOBKL3 PLEKHM1
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AP3D1 CTGF
PLRG1 CPVL
SRF ETV4
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HIST1H4I KAT2B
PAX8 POU2AF1
EMD BCLAF1
SPTBN2 MINK1
POLA2 HRH1
IKBKE SFXN1
ZFYVE9 PPP2R1A
RAB35 TBPL1
TADA3 TAF9
STAT3 FOXM1
BCR VAV1
DCAF8 MDFI
PIK3R1 LTK
MAFG PRRX1
COPB2 UBA5
RXRB APPL1
PIAS1 DDX21
DNAJB1 PTGES3
E2F1 PKIB

EIF3F HLA-C
RAD21 CHD3
DPM1 CIAO1
CENPB PARP1
HOOK3 AKTIP
THRB TSG101
TG CANX
TAF1 HIST3H3
SOCS1 MPL
EIF3D EIF4A2
ORC4 MCM3
PTN BMI1
MLL2 WDR5
LYN RPS6KB2
CDC37 CDC37L1
PTN BMI1
KCNH4 MAPK1
EGFR TNC
PHLPP1 PHLPP2
NFKBIB KIF18A
LYPLA1 IKBKE
SERPINE2 COL4A3
PLCG1 KHDRBS1
TPT1 SMAD2
YWHAG SHCBP1
FADS1 PAAF1
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NFKBIB POLR1E
NUPR1 PAXIP1
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PBX2 RPS6KC1
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CCNE1 RBL2
GUCY2D GUCA1B
LTA CLSPN
GRB2 SCARF2
CREB3 NFIL3
EIF3H MCC
SAP18 ACIN1
UBE2L6 DTX3

EYA2 GNAZ
HMGA1SUFU
PLEKHA1 SH3BP4
BACH1 HMMR
IFT88 RPGR
SMAD2 RAB34
NGFR KIDINS220
MAPK1 ARHGEF2
COX6C PTN
DPPA2 ZCCHC10
SKIL TSKU
GRIPAP1 ARL15
NEDD4L WNK1
NCK1 GABBR1
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TPR SMAD2
SERPINH1 KLF13
MLX MAD1L1
CDH1 ANAPC7
MAP3K1 TUBB2B
HDAC2 SUDS3
ERBB2 BMX
CDH1 CDC23
ASCL1 NEUROG2
APC2 CDH1
IGF1 IGFALS
VCP NFKBIB
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TRA2A TAF9
CCDC130 TRAF2
GTF3C1FGFR3
PLEKHM1 MOBKL3
CDH1 ANAPC4
PDPK1 PRKCI
MAP3K7 PELI3
ERC2 GRIP2
GRB2 SMARCD1
PRKCB PA2G4
POLR2H TRAF6
LPL CETP

EGFR OAZ1
CTSD MARCH9
PIK3R1 PTPN6
SRP72 HLA-B
EYA2 RBPMS
PRICKLE3 FYN
CD8A HLA-E
PIK3R1 SHC1
STAM2 EPS15
SEPHS1 C9ORF9
PRKCZ PPP3CA
ITGB1 FLT4
ERBB3 PTGES3
YWHAB FOXK1
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KCNA2 CNTNAP1
KCNA2 DLG4
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GSK3B TMEM132A
GPRASP2 KIAA1377
S100A10 TRPV5
UBE2T MARCH5
BACH1 NCOR1
TNFRSF1B RPS3
G3BP1 FAF1
NAMPTDDA1
STX1A STX8
PRSS1 SERPINB13
CBX1 TRIM28
POLR2H POLR3H
TERF1 GIT1
CDK2 RADIL
TNFRSF1B RPS16
KRT18 CASP8
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ERN1 UBC
HBP1 SERPINI2
ATM USP34
TCF3 HDAC2

NUP93 NUP205
SUV39H1 SIRT1
AHSG DCN
TNFRSF1B RPS14
ESR1 CAV1
POP4 RPP25
ACTC1 LASP1
RELB CPSF6
IRS1 PRKCD
AP3B1 SLC30A3
PTPRC GRB2
TRAF2 RHEBL1
USP22 TRRAP
TCF3 CREBBP
RPS27ARBCK1
HLA-B RPL37A
CLN3 SDS
NOL3 VASP
AR TSG101
CDK16 YWHAH
APC NUP62
PLK1 CYLD
SYNJ2BP ACVR2B
SAP18 OSBPL10
DNMT1 SP3
TUBB MAP3K8
AIP PDE4A
CD19 CD79B
LRRCC1 C14ORF119
IGF1R PIK3R1
BUB1 CRK
TP73 CABLES1
ZBED1 NUDT18
CLN3 UNC45A
KIF1B DLG1
EXOSC6 EXOSC1
RIOK3 ARL1
HIVEP2 YWHAH
ROS1 IKBKG
HGS CLTC

LSM1 RRP1
CTGF TGFB2
KRT20 C9ORF16
SQSTM1 MAP1LC3B
GCLM PHLDA3
RLN1 RXFP1
TP73 EP300
PRKCG YWHAE
ARRB1 AP2B1
SMAD9 AP2A1
TSPAN4 ITGA6
COG7 COG4
GATA1 HSPA4
DAG1 MAGI1
COLEC11 SRSF6
RXRB SOS2
PSEN2 UBQLN1
SNX4 AGK
TNKS VPS33A
TAC1 PREP
PHLPP1RBM15
ITGB2 GNB2L1
SMAD3 NFYC
SMAD3 RUNX2
PRNP FGF13
NRXN1 MACF1
TGFB1 SPTBN1
SPARC TGM2
CREB1 CRTC1
CALR NKX2-1
TRIM21CDKN1B
NPM1 SHC1
WASL SORBS3
ITGA5 FGFR2
LIMS1 ILK
PARK2 SNCA
AR KDM5B
MYC TAF10
BACH1 RPS27A
TIA1 FASTK

CASP8 STK24
CNOT10 CNOT8
FZD7 DLG2
EIF4E2 UBE2L3
TAF6 RAN
HELZ SMYD3
FGF2 SDC4
UHRF2 PCNP
PTPN6 MS4A2
ARL6IP5 ARL6
VHL UBE2K
C3 CTSG
WDR36 G3BP2
VHL UBE2N
PPARA AKAP13
SCAMP1 SCAMP2
VHL UBE2M
CD247 JAK3
XPA PRKDC
PGR BATF3
ACTN1 CDK5R1
GABRB3 GNB2L1
CDK5RAP2 MAGEH1
CASP9 ILK
YY1 GTF2I
CNBP MYH4
PSMC4 RORB
VIM RABAC1
PDCD6 SEC23IP
PTPRC JAK1
VHL UBE2D3
TWF2 ACTR3B
AP3B1 ARR3
RAF1 CPS1
HSPD1 AMFR
NDUFS3 GZMA
GRIN2D GPRIN1
GSK3A YWHAG
NEDD8 BTRC
ZNR4 UBE2D4

BRCA1 SMAD3
UBR5 USP49
MTDH LYAR
CASP2 DCTN1
EP300 CDX2
PRPF4 PRPF4B
RAD21 SMC3
BCAR1 NEDD9
NDUFS7 ENO2
NCOR1 PGR
PBXIP1 UBQLN4
COL2A1 COL9A1
SSTR1 SSTR5
ESR1 ZBTB16
DNALI1 HTT
NF1 GPRIN1
MAT2A TRAF6
HIST3H3 SETD7
GDI1 RAB1A
NCK1 ABI1
WAS LCP2
MAP3K3 RPAP3
EEF1E1 ATM
COL2A1 COMP
EIF1B KCTD12
DVL2 TRAF2
PRPF6 ESR1
RBPMS C12ORF12
TGM1 SEMG2
BRCA2 RAD51
SOCS3 JAK1
LIN7A KCNJ12
TF IGFBP6
TF IGFBP5
OMA1 LRP1
PPP2R1A PPP2R5E
CBL PIK3R1
GRM3 GRASP
FARP2 SRC
KCNMB1 EWSR1

SMARCA5 CTNNB1
CASP8 IKBKG
COG2 COG3
EXOSC2 UPF2
CLSTN1 APP
GNAI1 HRH4
BRCA2 PLK1
HDHD2 LUC7L2
KIF11 MEPCE
MLH1 RAD9A
UBE2D2 RNF167
CUL2 KCTD5
RASA1 GAB1
ARIH2 UBE2T
SKIL CPNE1
TECPR2 GABARAPL1
DYNLL2 SHANK2
GRB2 REPS1
TPM2 S100A4
STAT5B NCOR2
CDC42 PRKCZ
EXOSC8 RASSF1
NR1I3 CHD9
VHL RAB2A
TAL1 ZHX1
NUDT21 CPSF6
PKN2 HDAC5
SYT7 STX4
TAF6 SIN3A
ABL1 YTHDC1
WWP2 IL2RG
TAB2 HSPA1B
GRB2 AP2M1
UBE2K UBE2I
STAT1 BMX
ZNF32 GRB2
PAX9 KDM5B
CFLAR HNRNPL
APP EXOC6
XRN2 UPF2

RBMX CCDC33
PRKCG TOP2A
AP2A2 EPN1
PIGP PIGQ
DSPP CASP9
DSPP CASP7
PARK2 RAD1
SLC25A12 PELO
DSPP CASP6
VIL1 PLCG1
MAP3K7 RUVBL1
RHOH UTP14A
FGF13 SCN8A
CREB3 STX8
YWHAE SYN2
SRC STAT1
SRC STAT6
RPN1 C20ORF24
APRT MCC
SRC STAT5A
IGHM HSPA5
HES4 COPG2
PIGR TGFBR1
SMARCA4 SMARCC2
ATP6V1A TUFM
YWHAZ ZFP36L1
PRPF40A PIAS1
YWHAG KRT33B
RPS14 TNIK
ALB SRGN
TAF7 TAF8
DIAPH2NCKIPSD
SETDB1 MBD1
CHAF1A MBD1
RPS16 MAP3K1
RPF1 MAP1LC3B
FLNA ITGB7
DCN COL14A1
PSEN2 ICAM5
UBA5 FARSB

ATXN7L2 USP22
SNX2 SNX1
PTN BCCIP
CDKN1A EP300
AXIN1 TUBG1
PPIB IKBKE
GAK CLTC
PDE4DIP CDC5L
IL1R1 TRAF6
MYB SMARCA2
USO1 GABPB2
CBX5 NIPBL
TRAF2 AFF4
THRB MPG
S100B CACYBP
GRINL1A KIAA1377
RBMX HNRNPK
STRN FAM40A
PRTN3 SMAD3
PPP3CAMYOZ3
BCL2L11 DYNLL2
KAT5 NAP1L5
MAP3K7 RUVBL2
PRKAR2A NBEA
GNAI3 NGB
RTN4 TRAF6
NR1H2 MDFI
CBLB ABI1
SLU7 CCDC85B
HSPA12A NRCAM
ATXN1 KLHL8
RLIM LHX3
SPTBN1 DAXX
PRAM1 MAST1
RAD51L3 RADIL
HSPD1 CASP9
PRNP PDE4DIP
CCNT1 SNW1
NOTCH1 SMAD3
TSG101 RAD18

POLR2C WDR77
CDK1 NDEL1
MYB TTF2
ESRRA ESRRG
MED21 MED30
ANP32A ELAVL1
MYC NFYB
GNGT2 KCNJ4
ITGA2BGRB2
MYC MCM3
RAB11FIP2 RAB11FIP4
PQBP1 POU3F2
MNAT1 EEF1A1
PRKCA VCL
RBP5 MPP3
SRC NR4A1
KIF3B RAB5A
SYNPO MAGI1
CDK5R1 TSC22D4
CDH2 GPRIN1
ESR1 HDAC5
KIF3B RAB4A
BID CASP8
PCBD1 TUBB2C
ERBB2IP RPAP1
SOCS1 JAK3
FKBP1A PPP3CA
TGFB1 FBN1
MAP3K7 TAB3
ARHGDIA FADD
AURKACKAP5
PDCD6 KIAA1244
CD48 EEF1D
HLA-A ATP2A3
PARN BARD1
SPOP RTN3
HNRNPD SUMO4
RPS23 UBE2W
WSB2 EZH2
SKIV2L2 UPF2

FBXW7 NOTCH4
PDHA1 ITGB3BP
HBB DMWD
CD2BP2 KHDRBS1
CAPNS1 IL2RG
EP300 MAP3K5
PCSK1 PTK2
WBP4 WAS
TIMP2 PSME3
RPRM FBXW11
SHH PTCH2
ITGB1 RAB5A
EIF2S2 EIF2S3
RPS27AFANCD2
UBE2D1 RNF2
AR DCAF6
SNCA CLTC
LMX1A LHX3
PTP4A3 SSR3
TAB2 HDAC5
ETFA ELF3
SSB MAP3K14
KDM5ASUZ12
PSMC5 TAF10
MAGEA11 TMEM123
EPB41L2 YWHAQ
IGF1R JAK1
MLLT4 MLL
EZR RHOA
EGLN2 EPAS1
GORASP2 TSC22D4
PACSIN3 PACSIN2
FN1 LPA
PRKAR1A BEX2
NFKB1 HDAC1
NFKB1 RIPK1
MAPRE2 NIF3L1
C11ORF48 LYAR
GF11B EHMT2
MCM3 HIST1H4I

AKT1 NCOA4
SNRNP200 GRB2
NEDD8 AKIP1
PPP1R15A HABP4
HNF4A TGS1
SCD CYB5A
CTPS HLA-C
TRAF2 BAHD1
HLA-A BCAP31
ACP1 SPTAN1
CBL PTPRG
GGN FANCL
BPNT1 IKBKE
SLIT3 ROBO2
PRKAR1A MAP1LC3C
PIK3R1 EEF1D
PRKG1 LASP1
FLT1 PTPN11
TRAF2 LNX1
HLA-B RHOA
GATA4 ID2
SMNDC1 TSR1
DEC1 ZHX1
PSMB3 PSMB7
RPS27ARNF11
SUMO1 SENP6
CALM2 OBSCN
NUP133AHCTF1
HIST1H3J SET
ADRB2 GRK5
CASP8 GMEB1
YWHAQ SRSF1
AP2A1 SHBG
ZNF165 PDLIM7
REPS1 STON2
UBE2N MARCH7
SMNDC1 SF3B2
COPS6 MYEOV2
ATXN3 TEX11
PHB2 NR2F2

ESR1 MED10
RFC4 CDK9
JAM3 PICK1
IFNAR1 PRKACA
ATP5C1 POLA2
HIST1H1E CBX1
MLLT4 NRXN3
CENPB PARP2
SYK MAP4K1
TAL1 DRG1
PRKACA STK11
UNC119 LUC7L2
EIF1B CALM2
SRF SSRP1
USP46 WDR48
BMP6 ACVR2B
MET HGFAC
ETS1 CPLX2
VAV2 BRDT
ATXN1 RBFOX1
CNN1 ACTA1
RFXANK HDAC4
RDBP YWHAG
MSR1 HOOK3
XRN1 EXOSC8
CBX1 CBX3
WDR47 FAM107A
BCL2 AVEN
GRIA1 GRIPAP1
TJP2 TRAF6
TP73 C6ORF165
COL4A5 KLK6
VIM TXN
PPP2CBGAD1
IPO9 IKBKG
MAX PFKP
BIRC5 USP9X
PRMT1 WDR33
NFKB2 PSMD1
AR YWHAH

IRF1 ULK2
CNBP SRSF6
TAF1 RBL2
PARK2 SYT12
SMAD3 PRDM16
EP300 GTF3C2
EPS15 LAPTM5
CBL PTPRB
YLPM1 WDR48
EGLN1 ING4
MATN2 FBN2
CTNNB1 SMAD3
JAK1 TEC
JAK1 ABL2
HNRNPH1 HNRNPF
CTNND1 CDH24
RPL35 MAX
GRB2 MSI2
NONO TBK1
CASP3 PXN
HNRNPK RBM42
ZRANB2 USP39
GGA2 SYNRG
PPP2R1A PRDX2
STXBP2 DDX20
TSC22D3 PLEKHF2
GNAI2 OPRM1
DLX4 MAGED1
YLPM1 USP45
USP8 CHMP2B
BMPR1B PPP3CC
MTOR YWHAZ
XPO1 TNFRSF1B
MPRIP RIPK3
AR BAG1
CCT3 PAFAH1B2
CDKN1C LIMK1
RAI1 MAML3
MYC TP53BP1
CCNB2 CDK2

RFC5 CHTF18
UEVLD SDF2L1
FN1 COL4A2
SRC ARHGAP1
HDAC4 AHRR
PRAM1 RNF32
PACSIN3 ASAP1
TNFRSF1B CSE1L
TMEM147 BRF2
RGS20 OSTM1
TCF3 HOXA1
TH YWHAB
STX7 GTF2I
SKIL RNF4
COL4A2 TGFBI
MRE11A RAD50
ECT2 PARD6A
PLD2 PEA15
SHC1 GRB7
SYNJ1 PACSIN3
GNB5 RGS11
ATXN1 FHL2
NOS1 ZDHHC23
TRAF1 TIMM50
SRC LRP1
NRP1 KDR
PSMB3 YWHAZ
KRT14 MDM2
TAF1 TAF10
BCOR USP7
MCC TSFM
TBCE TBCD
UBE2W UHRF2
MYC TMEM33
RXRB AKAP13
LCK JAK3
SCAF8 CDC5L
SF3B4 CDC5L
EPB41L2 NUMA1
PDS5B SMC3

MATK EWSR1
PSEN2 NOTCH3
PSMB1 PLK1
LAMB1 COL6A1
BCL2 MAPK8
EGFR TGFA
EGFR EGF
DHX9 MAP3K14
CHD1L UBE2O
UBE2D1 CADPS2
CTNND1 PTPRJ
HSP90AB1 MYH9
TSC22D1 KIAA0090
SPTB NCAM1
ITGA5 CD9
MED14 AR
RAP2A ACVR1
ALK IKBKG
KNG1 VTN
EGFR PKIA
KIAA0776 GSTK1
PRPF40A STIM2
PLAUR EEF1A1
STK25 CCM2
GRK6 SNCB
CADPS2 UBE2W
EIF2AK2 TIRAP
TRIM2 TNIK
GIPC1 PRKCA
SKIL EIF4G2
CYTH3 FRMD4B
RTN4 PRKAB1
MTOR PPP2R2A
CD44 SCYL3
CDC42EP2 RHOQ
MYO1DMAP3K3
USO1 PLCG1
MCC RPS6KA3
HSP90AA1 FKBP8
EGFR IGF1R

OMA1 DAB2IP
CTNNB1 ERMN
CRK CDH1
ATXN1 POM121
SPRR2A ITK
KIF1B TFCP2
PTPN11 PDCD1
KAT5 RCHY1
PRPF40A RCC2
DLG1 GPR124
XRCC6 HN1L
ATXN1 UBAP2L
ITGB1 CD36
CAPZB DMWD
HIST1H3J GSG2
HSP90AA1 FYN
SHBG MT1F
AR CEBPB
PLG RBBP6
EIF1B PINX1
CCDC33 C19ORF50
SYNC DTNA
C1QA CSPG4
CBX1 CHAF1A
HLA-B SET
HLA-B HSPE1
C17ORF28 RBBP8
GAPDH USP25
PAXIP1 MLL3
GDF9 BTBD2
FXR2 FBP1
COIL PREPL
VPS35 USP43
COPS6 TSG101
PTP4A3 KIAA1967
CDC34 TMEM14C
INHBB INHBC
HIST1H3J IPO4
HNRNPA2B1 WNK1
EFS ABL1

HAT1 BAP1
ABL1 PAK2
HSPD1 ALK
FAM76B KRTAP4-12
GNB3 GNGT1
ACTB SMARCE1
TNFRSF8 TRAIP
GNB3 GNG3
ABL1 ASB16
ZNF638 EFEMP2
GIPC1 NOC2L
ACTR2 TRAF6
DAND5 TBP
TBC1D4 TET2
COBLL1 PACSIN1
SNRPD3 SRRM1
ACTN4 SACS
SRC AXL
SOCS1 IGF1R
HTRA2 RNPS1
RAPGEF3 MAP1A
MOBK3 STK24
BCR PXN
PAK3 SYN1
SSRP1 MCM6
PIN1 RAI1
OCLN ITCH
MYC SMARCB1
HLF CREBBP
MPP6 DIS3
RRM2 RRM2B
ATF7 C19ORF2
PRKCB ITGB7
GYPB RHAG
RAR PNRC1
PTPRE PTPRS
ITGB6 FLNB
RNF111 UBE2D4
TP53 BANP
MLH1 ACO2

YWHAG CCNY
RASA1 CAV2
EP300 NPAS2
USP19 HERC2
DAND5 CCNA2
F10 F5
DAND5 SYK
RAF1 PRKACA
MCC ACACA
TSC22D1 KRTCAP2
PRKCD PTPN22
FCAR OSCAR
EIF4E CYFIP1
UCK2 NEK6
CUL1 FBXO31
EFEMP2 TP53
HSPA5 NDRG1
IKBKB RPS27A
HBM MESDC2
INSR PTPN12
ARSE NDN
C19ORF50 ZC4H2
TP53 AR
CPSF6 KLHL12
ZNHIT1 H2AFZ
CDKN2A IKBKE
EP300 NAP1L4
HIST3H3 ING4
PDCD2 USP49
TBC1D4 TOPBP1
LAMA5 MUC7
DNMT1 USP7
ZBTB7B GRAP2
CASP9 RNF2
TBP PAX6
XRCC6 SGOL1
TERT YWHAZ
NDUFA2 FSTL1
POLR3D POLR2F
VIM WBP11

SRSF2 CDK12
YWHAE STAC
TMCO6 UBQLN1
USP5 USP13
RAD23A UBA3
APP CBF3
AR MLH3
TCEA2 FAM190B
SGK1 GAPDH
YES1 FAS
CUL4A KEAP1
EP300 SMAD5
MLH1 TXN2
AHSA1 FTSJ1
EIF3E DDX24
DLG4 MAP3K10
SSX1 FUBP3
DLG2 DYNLL2
AGTR1 THOP1
PRNP MARK4
KIAA1279 GSTK1
ALK MAP3K4
UBE2M MEPCE
PSMD14 PSMD3
SIAH2 VAV1
PGLS EWSR1
ETV1 EP300
NUDT21 HLA-C
CDKN2A WRN
UTRN DTNA
HBP1 CD2AP
RNPS1 USP7
IL1A S100A13
ESR1 MTA3
CTBP1 SIN3A
DSPP PKP4
EMX1 PRDM4
TAL1 RCOR1
WBP4 HNRNPU
PHYH TOM1L1

PXN TRIP6
BCAR3 KHSRP
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TUBB2A ARL15
TBP FATE1
KCNB1 KCNV2
XRCC1 APLF
MEF2C RANBP9
MPDU1 SHBG
SESN2 PRDX1
MAPK3 ARRB2
GHR STAT3
FBLN1 GF11B
PTK2 SCG3
KPNA6 STAT1
DSC1 DSG2
MCC STRN3
PPFIA3 PPFIBP1
FOXO3 YWHAE
PFN2 DNMI
CASP9 BIRC3
NFATC3 TTF1
PRKDC PLCB1
RGS12 CXCR2
DSG2 PKP2
ARID1A SMARCC1
SPTBN2 ACTA1
YY1 PRKDC
GNB2L1 OTUB1
PRKCD CYTH1
RARA NR1H3
DDX5 TRAF1
NUDT3 ASB13
SFXN1 GSTK1
TRIM37NUDT18
KCNJ12LIN7B
CLN3 AFG3L2
VHL RAB14
SNRPB COIL
PARP1 TOPORS

NKX2-1 CCDC59
CASP9 BIRC2
PLSCR1 CPSF3L
RPS27A TRAF6
C16ORF59 FEZ1
UNC45A GSTK1
STIP1 IKBKE
TUBA1A MAP3K3
HOXB9 ZNF408
PTGES3 PINX1
GH1 CISD2
HDAC1 CDYL
PML MAPK14
SMC2 NCAPG
RPS27A TBK1
OMA1 SRC
PCGF2 UBE2T
HDAC1 RUVBL2
LSM7 LSM5
HCLS1 SH2D4A
UBE2L3 TRAF7
CCND3 ATP5C1
VTN PRKCA
ACVR2A ACVR1
CSNK1A1 PRKD2
STS CBL
CFTR PRKAR2A
CD3D CD3E
CTNNB1 HDAC4
TPM1 RIPK3
DAP3 NFKB2
HDAC3 TP53
CDC42 BAIAP2
HDAC1 TCF19
YWHAE PFDN5
EIF4B EIF3A
ACTN1 SRC
MARK3 NOL11
GM2A GPLD1
ZNF331 ZNF182

EIF3H EIF3K
RAI1 ZNF496
LSM7 LSM4
FOS ETS2
NEDD4L MED28
SMAD3 SMURF1
CUL2 ZER1
FLNB MAP3K4
RBL1 CCNA1
TRIM28 PARP2
TRIO DISC1
AHSA1 C20ORF24
CTPS HLA-B
PFN1 TLE1
VPS26A VPS29
CBX8 HAP1
AKT1 HSPA4
JUP APC
PDCD6 TIMM22
SYNJ1 PPP3CA
COL2A1 MAG
SYNJ1 EPS15
BRAF PRKCE
RNF40 RNF20
SOD2 GOLGB1
UNC119 UBQLN4
FGF1 CSNK2B
CRIP2 ATN1
PTPRA GRB2
WHSC1 MDM2
CSK PARD3
STAT1 PDE4DIP
CDC37 FBXL12
STAT1 CCR5
MMP14 LRP1
YES1 ABII
UBE2W BFAR
ITGB4 ALOX12
DNMBPCYFIP2
PLCG1 CKAP5

ARHGAP1 BNIPL
PTPRG GAB1
RHOD DIAPH2
VIM SLC27A6
PTP4A3 SLC3A2
DNMT1 UHRF1
IKBKE AZI2
TP53 HTT
PFDN6 MDM2
DDIT3 ZNF323
FN1 PDGFA
MIS12 DSN1
STAT1 STAT5B
CASP4 MTHFD1L
MDM4 UBC
KPNA3 FAM50B
PRPF6 RNPS1
MDC1 USP28
FH IKBKE
NTN4 ADAMTSL4
TUBG1 MZT1
MDM4 MDM2
TP53 JMY
NAB1 POU2AF1
PIK3CB AGTR2
NDEL1 DISC1
IFT20 EXOC7
PRDX2 MAST1
ZNF584 LZTR1
MYC PML
NTF3 BDNF
HSPE1 TNFRSF10D
SMAD9 DSTN
TCF3 KAT2B
MAPT RPS6KB1
IKBKB FANCA
TNFRSF13B TRAF2
PIK3CA VARS2
KIT SH3KBP1
MTA2 SIN3A

RAC1 PRKCD
PDXDC1 PHLDA3
RNF8 ATM
MTA2 SPEN
RALA RAP1A
LMO2 MAPRE3
ITGB7 MADCAM1
SORBS3 FLOT1
MYB MLL5
MAPK1 ESR2
ATXN1 BTG3
FN1 TTN
VAV1 PRLR
DEK BAZ1B
SMARCA1 BPTF
PTK2B SH2D3C
FN1 CXCL12
RING1 CBX3
PTN WFDC2
EEF1A1RPA2
NBN TERF2
NFKB2 MAP3K14
HDAC3 PAPOLA
EPHB2 PTP4A2
PRKAR2A ARFGEF2
CDKN1A DTL
ZNF408 LSM2
DHX36 PARVA
CD8A CD59
PIK3R1 TYK2
AR PRMT1
FADD MYD88
RECQL5 MAPK8IP1
PRKCA LMNB1
SNRPB DYNC1H1
GSN CLIC5
SMAD4 EID2
NCOR1 SKI
RUNX2 YAP1
NCOR1 SKIL

PHB BRMS1
UBC SPDYA
ADAM15 SH3D19
HSPA5 BCAR1
ARRB2 ARRB1
CBFA2T3 HDAC2
RTKN2 PACSIN1
ABL1 MAP4K1
ALB USP37
PXN GRB2
TNFRSF1B MYH10
RRAS NAV2
FGFR1 STAT3
STAT3 JAK3
GTF2I SRRM2
NDEL1 MBIP
SFTPB CTSH
MCAM ATF7IP
FN1 ITGA5
KBTBD7 TJP2
CASP1 PYCARD
COL4A4 TGFBI
E2F4 NDN
IL12RB1 STAT4
KLHDC10 USP7
TNFRSF1B MYH9
ADAMTS4 SERPINA1
HIP1 PFDN1
UBC RALBP1
ADAMTS4 SERPINA3
KIAA0776 UBE2D4
EPRS RIPK3
BAG2 MAP3K1
SRPR RUSC2
ADIPOQ ADIPOR2
TYROBP KIR3DS1
HGS ITCH
TGFB2 OSR1
AURKATP53
PIAS2 TP53

MED9 MED29
FN1 FASLG
XPO1 TOP2B
FATE1 TRAF2
RAE1 FAF1
PRKACA RAP1GAP
ABL1 DLX4
IRS4 PRKCZ
STK38 MOBKL1B
AR CDC37
ZSCAN1 CNOT6L
ITGB2 PRKCH
CSK LAIR1
B2M GRB2
MT2A SHBG
STK25 SIKE1
ACCN1 STOML1
CLN3 TELO2
REV1 POLI
USP28 CLSPN
WASL FBNP1L
CASP10MAP3K14
JUP PHB2
RXRB KIF5A
XIAP DYNLL2
RFX1 MAGED1
KCNH4 ST13
CD5 POLR2B
NFKB2 TSC22D3
MT-ND4 GRB2
YWHAQ BAX
MLL3 ASCL2
GCH1 OSBPL9
TNFAIP3 APC
MAPK1 MTPN
LRRN1 RTN4
TP73 ASPM
LIF LIFR
YWHAZ WWC2
SF3B3 WWOX

MYC MKLN1
KPNB1 ING1
KRT18 CASP3
SEC24CSEC23B
ESR1 NR0B1
CCNT2 HEXIM1
SEC24CSEC23A
NID2 COL13A1
TGFB1 COL2A1
MAPK1 PTPN5
PTPN2 KPNB1
NTRK1 RPS27A
RANBP2 RPS27A
ATP6AP2 USP20
PRUNE2 EWSR1
HUS1 RPS27A
CTNNB1 CSNK1D
WASL PACSIN2
APOA1 CETP
SUMO2 UBA5
SNRPD2 CDC5L
RASAL3 WNK1
DDB1 COPS3
EGFR AKAP12
MYC ACIN1
SLC2A4BSG
TLR3 TRAF6
NAA38 NAGK
CTNNB1 CSNK1A1
NTRK1 GRB2
COPB2 DDA1
ITGB4 PTK2
PABPC1 PRKAB1
SUB1 CSNK2A1
APOE CDC37
CUL4B RBBP5
PF4 THBD
YWHAZ CBY1
EGFR MAP4K1
DSC2 PKP2

SUMO2 C20ORF94
MCC CAPZB
PPP2CBCTTNBP2NL
PSMC4 KRT33B
ATP5L TSC22D1
BRAF MAP2K1
RBL1 EPHB2
ESR1 MAPK14
FKBP2 CDKN2A
YWHAG DENND4A
RPS6KA5 MAPK11
PNRC1 RORB
F8 VWF
PLAU CTSB
MAML2 MAML1
MYST2 DVL3
FOS NFKB1
RNF13 UBE2N
SPINT2 HGFAC
HAGH MYOC
ARPC1B PAK1
PLK1 GTSE1
FLNA NFYC
EP300 PPP2R5C
EP300 CTBP1
UBE2I CEBPE
YWHAG NUFIP2
CUL5 ANAPC11
ZNF225 NAB2
RGS7 GNAQ
PTPN11 PAG1
RARB GATA3
RPL22 RAC1
OPA1 PTP4A3
ATM CXXC5
SMAD7 HDAC1
PLK1 PLK2
TFAP2A MAGI1
UBTF LEF1
LMNA FYCO1

PSMC2 RPS27A
MCF2 CDC42
TBP BRF2
GPR37 STUB1
FANCF FANCL
CDC37 SMYD2
NCOR1 SNW1
ESR1 RPS6KA3
TUBB VAV1
DLG4 GRIN2B
DDA1 FARSB
TDRD6 MAPK6
NFE2 PHYHIP
GRB2 ACTA1
BMPR1B RAB6B
EPAS1 ARNT2
YWHAZ C22ORF28
WWC1 FEZ1
CUL4A DCAF6
CLEC4G RNF7
MAPK9 XPNPEP1
ERP27 UBQLN4
SMAD2 GRIPAP1
CCND3 ATF5
RET DOK1
MLH1 LGALS4
SGK1 PDK2
SGK1 MAGEA1
DNM2 MPHOSPH6
PSTPIP1 RPL35A
EP300 MTA1
BRD4 MED24
CD4 UNC119
ACTB RAD51
VIPR1 GPRASP1
TRIM41 AKTIP
RBL1 KDM5A
IRF1 IRF8
GOLGA3 GOLGA7
IL1R1 SIGIRR

EPRS RELA
RBL1 ARID4A
SETDB1 RNF10
ATP2B2DLG3
DAND5 SRC
LAPTM5 USP13
ADRA2A PPP1R9B
NSF EEA1
DCTN1 BBS4
PCNA SMARCA4
PDGFB PDGFRA
HIRA HIST2H2BE
EIF4G3 MKNK1
SRC ASAP1
CNBP EBNA1BP2
ATRX LUC7L2
ZBTB17DIS3
PTPN6 CXCR4
SNAPIN KAT5
RPS6KB1 NEK6
NR2F6 CAMK2A
PTPRD PTPRS
RB1 SPIB
UBE2G2 CUL9
FYN PTPRA
NRD1 POMC
CASP7 BIRC3
PPP2R1A TRAF6
TOP1 FSHR
DLST MEF2A
ELAVL4 EWSR1
ANXA2 FTSJ1
YWHAB SRSF3
SMAD2 ARFGAP3
TUBG1 PDCC6IP
NPAS2 HESX1
YWHAG CLASP1
CASP7 BIRC2
TEAD1 NCOA1
TFE3 RPA3

NEDD9 TRIP6
EPS8 BAIAP2
ACVR1 CREBBP
SLC25A11 CLN3
BRD4 PRPF40A
CDK9 IGF2BP2
CTBP1 MECOM
GMFB RPS6KA1
HLA-B KCTD12
DOT1L SIRT1
TP73 HIPK3
EXOSC5 PA2G4
SRCAP RUVBL2
XRCC6 CDK2
CHD4 WNK1
LCK CD3E
NR2C2 HDAC4
RORC CHD4
SF3B1 SF3B2
YES1 RASA1
FAS DAXX
AXIN1 DVL3
NFYC C12ORF65
SDHB IKBKE
ARL6IP5 CCR5
CDKN2A CDKN2C
PTH1R SLC9A3R2
KNG1 CTSL1
CALCR GPRASP2
PLSCR1SLC35A2
CTNNB1 EP300
MTOR FKBP1A
STK25 FAM40A
SKIL SMAD3
CYB5A CYCS
ARIH2 UBE2D3
FOS PSMC5
ERBB2 PTK6
CASP2 NLRP1
GOLGA2 GPS2

FYN GRAP
ITGB2 EPS8
EIF4A3 SRRM1
FANCD2 FAN1
ATP1A1 EZH2
ELP4 ELP3
DEK DAXX
HDAC1 ZNF395
MYC MSH6
PAK1 PAK1IP1
TNFRSF10C RAPIA
TP63 INPP5E
CHM RAB14
DTNBP1 MACF1
CDK4 TSPYL2
PRRC2A RERE
PRKCA ANXA7
DDX50 SRRM2
CD44 TGFBR1
ATF2 CREBBP
PML CSNK2A1
MAP3K7 TUBB4
NFKB2 TRAF3
CTBP1 IKZF1
UBE2L6 RNF125
EIF2S3 CASP4
MYB RPS27A
CD44 MADCAM1
DNAJB6 GH1
PLSCR1ADAMTSL4
AHSA1 EGFR
PSMB1 POMP
RANBP9 MKLN1
APEX2 TRAF2
SNX4 BIN1
EMD ACTB
ESR1 NR2C2
ATF6 NFYC
ZNF24 TRIM25
TP53 MED1

TOR1A LMNA
LPXN IMP3
FCGR2C GRB2
HERC2 DBNL
PRRC2A SSR3
GDF11 WFIKKN2
MUSK DOK7
APOB BGN
ATF2 NCOA6
IGF2 IGFBP4
LMNA ING1
SDCCAG3 GIT1
HNRNPC TRAF6
YWHAG CYFIP1
SMAD2 KIAA1033
CCNA1 PROCA1
FYN RIMS1
MAP1B U2AF1
ESR1 RBBP7
NCOA2 GMEB1
SYNJ1 GRB2
ESR1 PPARGC1A
MYC KIDINS220
ACTN2 CAMK2A
XRCC6 H2AFX
ZBTB16HDX
SYNJ2BP PINX1
CLCN7 OSTM1
IGF1 IGFBP1
MYC ARF1P1
RNPS1 LUC7L
CSRP2 CSRP2BP
PML ELF4
MAP4K4 GBP3
NRD1 PDYN
RIMS1 CAMK2A
RPA2 MCM3
ZNF263 SCAND1
SF3B1 SNRNP40
FYN HEXA

MTA1 SIN3A
CD247 SLA2
RAD52 RAD51
CASP3 GRIPAP1
ZNF367 TP53
ADRB2 HTR4
NR2F1 NCOR2
RIPK2 RPS27A
PSMB1 DCP2
AP2A1 PIN1
TOP2A RANBP2
TRAF3IP2 IKBKG
TP53BP2 WWP1
SMAD9 QARS
BCL2 PIN1
FYN JUP
APBB1 ABI1
ADAM12 SRC
DCTN1 HAP1
MED26 POLR2B
AR RELA
TH PRKACA
PRNP KIAA1191
DHX9 TRAF6
USP45 GLTSCR2
PPFIA3 PPFIA2
SYN3 SYN2
CRB1 MPP5
USF1 TRRAP
CDK1 CSNK2A1
CCNDBP1 SYF2
S100B STK38
LCK G3BP1
FGF3 FGFR3
IGF2BP3 HNRNPA1
ENO3 TRIM63
PML TGFBR1
TBL3 NR2E3
YWHAB MST1R
MYL2 PAK2

VEGFA CTGF
ITGB2 COPS3
ACCN1 ACCN3
CAPN1 PSEN2
SNRPD3 LSM7
RPS27A OTUD7B
IVL LOR
PSAP BRCA1
ARF6 GTF2I
VAV1 AOC3
EIF4A3 MAGOH
CADM4 CNKSR1
STK19 SP3
CASP1 NOD2
DARS NDRG1
USO1 GSTK1
NEBL ACTN1
USP11 GTSE1
ACTB PDLIM5
MARK3 SAAL1
CDC42EP2 SEPT6
NAA16 NAA11
SNAPIN CNO
PPP1CA PPP1R9B
PDGFRB ATP6V0C
PCBD1 TRIM5
CCNA2 CDK2
PPP1CCY WHAZ
USF1 HCFC1
MED1 MED23
ACTN2 TNN
GNA12 S1PR5
MTNR1A PDIA6
APOA1 APOC1
PCBP4 RNF138
VHL RPS16
YWHAZ MAP3K2
HIST1H2BB CHD1L
CCBP2 CCL19
NR3C1 CEBPB

DMD DGKZ
SRC CBL
TNFRSF10B FADD
CNIH4 PRKAB1
SELP SELPLG
RBL2 BRF1
OASL MBD1
DVL2 RUNX2
PPP2R1A PPME1
PLCG1 YTHDC1
TRPV1 TRPV2
ADAM17 MAD2L2
CA2 SLC4A8
HSP90AB1 PRKDC
CHD3 IK
ICAM1 SLC3A2
SUPT7LTAF9
DAB2 MYO6
GBAS GABARAPL2
NFKB1 IRF8
DLG1 LIN7C
TNFRSF10A TNFRSF10B
FLT4 PTPN11
PPP2R5D SGOL1
YWHAB STK38
ACTN2 DISC1
PLA2G4A ELF3
TGFB1 ITGAV
EIF4G1 PAK2
SDCCAG8 TSC1
IARS GSTK1
PTPRF PTPRA
NFYA APPBP2
CCT8 PPP4C
SRC PLCG1
BAG6 CTCFL
TNNI3 TNNT2
MEF2C MBD5
CDC45 PPP4C
NFKB1 HMGA2

EEF2 MAPKAPK3
NKX2-1 CREBBP
ADRB2 RPS27A
PRKCB CSF2RB
MYBL2 CDK9
SSFA2 YWHAG
DAB2 PRKCD
MC4R MRAP2
RGS9 GUCY2D
PTN MKKS
DOCK1 ELMO1
MAP2K6 TRAF6
MYC EXOC4
FHL2 ZNF182
IRF3 IRF7
DNM1 FNBP1
CDK4 CDT1
RAP2A RAPGEF6
CSF2RB STAT1
CASP3 MAP4K1
CSNK2A2 PPP1R2
PPP1CC CDC34
HLA-B GANAB
CRHBP UCN
S100A8 MOBKL1B
CCL22 VCAM1
OCLN RAB8B
LDOC1 SMARCD1
ALDOB BBS4
KRT18 TCHP
BIRC2 TRAF2
GNA14 ADRB2
SMAD2 CXORF26
SMAD2 TRIM62
SMC1B SMC3
OXA1L MRPL13
CSF2RA SDC2
UBE2I RNF10
PARP1 TOP2B
SRC CBLC

RPF1 UBE2D2
NR3C1 PRKACA
FAS RIPK1
SAP18 YWHAB
PELI3 MAP3K14
ETS1 PAX5
MAPK14 CCDC14
GABARAPL2 ATG4B
PSTPIP1 PTPN1
ALDOAHSP90AB1
ADRB2 GRB2
FN1 PRKCH
RET FRS2
THRA PML
CRLF1 CNTFR
APBB1 HNRNPK
DFNB31 MYO15A
CKLF WWP1
CRK SH3BP1
CEBPB SPIB
CTNNB1 PICK1
MLH1 PTP4A2
LAMA4 ATF7IP
USP9X NEK6
KPTN AUP1
MYST2 PHF15
RQCD1 MAP3K3
AP2A2 NUMB
VIPR1 CALM2
ATG9A FAM48A
FBL DDX17
ATM RRM2B
PNRC1 ESR2
TGIF1 SIN3A
TGM3 USP53
COL4A2 OSM
RPS27A ERBB4
MYST2 RGL2
JAK1 PLA2G4A
SMAD1 HIPK2

PTP4A3 SEC63
TERF2 MCPH1
HLA-B LAGE3
PRKRIR EIF2S1
ATXN3 RAD23B
DOK2 EGFR
CDK1 CCND1
ATXN3 RAD23A
GNG13 GNAT3
SRSF7 CCNL2
YWHAZ FAN1
OXA1L MRPL20
CDK9 NR2E3
COPB2 RGS4
EP400 TRRAP
GUCY2C PDZD3
ATN1 FBLN2
SKIV2L2 EXOSC8
PFDN6 SPATA2
HNRNPA3 TNIK
HSPD1 WNK1
TAF9 EHBP1
CDH1 JUP
HUWE1 CDKN2A
FYN CNN1
PIK3R1 SLC9A2
HEY2 HDAC9
VAV2 RHOA
MLH1 WDR61
SMAD7 SMAD4
MMP14 ACTB
GH1 RPS11
GIPC1 SEMA4C
YWHAB RNPS1
FYN GAD1
TAF10 TRRAP
TRIM24 SUMO1
RAD17 CLSPN
DOK2 ABL1
EIF1B SEPHS1

SYNJ1 TNK2
YWHAQ MARK2
SUMO2 ZMYM4
TNFRSF1B MYO6
MLH1 YLPM1
TSG101 NDUFA13
TP53 TAF1C
MAP2 SRC
BTF3 PAK2
STAT6 NMI
RIPK2 SMURF1
KPNB1 NUP50
CCT5 RPAP2
C11ORF61 STRN4
NR3C1 MAPK15
LRP2 LRP2BP
HLA-A UGGT1
TP53 TAF1A
RAB11B IKBKG
EFS NCK1
H3F3B DNMT3A
CD36 VLDLR
PKLR CLEC4G
PTP4A3 TMCO7
HIST1H4I SETDB1
DPF2 BCL7C
HLA-B GFPT1
RARA RXRA
INSR STAT5B
APOE MAPK6
EP300 SMAD4
ITGB1BP3 LRP12
CDKN1B DDB1
RAB3B RPH3AL
UBE2I ZCCHC7
CRKL EVL
RAB3B TGFBR1
HBXIP EEF1A1
H3F3B CABIN1
SMAP2 ING3

EIF3F PTN
LTA TNF
NPBWR2 NPB
EEF1D MAP1B
FHL2 REV1
SNAI1 UBC
NFKB1A SPG11
PLXNB1 AKT1
ACTL6A ING3
TP53 NCOA2
POLA2 EZH2
COTL1 PRKAB1
MAGI2 AMOTL1
SUMO2 UBE2I
SMAD9 MTMR10
TFAP2B CITED2
TNF SCG2
IL10 IL10RB
CSNK2A1 NOLC1
NFKB2 NR5A1
FYN ORC1
EMD FATE1
CNOT10 CNOT6
DDB1 ZNF277
ETS1 STAT6
LDB2 BRCA1
RAD9A CLSPN
SIAH1 RBBP8
EIF4E EIF3B
AR IFI16
AR HIF1A
TFAP2B CITED1
TP53 ERCC6
CHMP4C PDCD6IP
SNRPB STRAP
RAP1A RUNDC3A
TRIM28MEPCE
FYN PTPRF
ZNF408 ZNF182
UBE2K MKRN3

CCL5 SDC4
CBFA2T2 NCOR2
PDGFRB ARAF
PABPC1 IKBKE
SGK1 PSMD6
LAGE3 OSGEP
HNRNPA1 UBR1
IRF3 CREBBP
USP45 SRBD1
HNRNPA1 UBR2
TBP TAF2
SKIL SETDB1
KLC1 MAPK8IP1
TRIP6 MOBKL1B
USP18 IKBKG
OMA1 RELN
CSK G3BP1
PRKG1 ITPR1
SYVN1 UBE2J1
TRIM28SPG7
PAICS LNX1
CD4 KCNAB2
CTSD IGF2R
IKBKB MAP3K14
MAP1LC3C TBC1D2B
DPF2 ZNF182
PIK3R1 GABBR1
MUTYH LRSAM1
ACTB CPNE2
CHD4 IKZF4
S100A6 CACYBP
DERL1 SEL1L
HMGB1C14ORF1
CLINT1MAP1LC3A
EIF4G3 USP10
NAA38 LSM7
AQP1 TRIP6
FASLG DNMBP
MEIS1 HOXD9
TP53 RRM2

SNX2 ACVR1B
ABP1 DNM2
YWHAZ RAPGEF2
EP300 NFATC2
BMPR1B KLHL1
PER2 CRY2
HMGA1EWSR1
SH2D1A GRB2
ADAM12 YES1
PLAU CTSL1
TP53 TRMT11
CCNA1 PSMD6
NTRK1 RAP1A
COPS6 FEM1B
GTF2H1 POU2AF1
CD44 DMP1
YWHAZ FAM65B
MAP3K10 DNM1
OSGEP OPTC
MYC YY1
APC S100A4
IKBKB TRADD
SPRY2 KRTAP4-12
TYK2 STAT1
DGKA IL2
DEC1 TOLLIP
FN1 TAC1
CAPN2 NMT1
FANCC ZBTB32
FLNB ATF7IP
TP53 ATF3
CDK1 GADD45A
SH2D1A LY9
IQGAP1RNASEL
CTBP1 HIC1
NXF5 NXF1
CD9 IGSF8
UBE2I NIN
PRKCG YWHAG
TFCP2 KIAA0090

MLL2 CXXC1
VEGFA EPHB2
PLSCR1NTN4
MED8 MED10
NGFR MAGED1
CRK KCNIP3
HNRNPH1 NDRG1
SKIL SNX17
ITGB3BP INSL6
ELK3 MAPK14
ANXA5 ITGB5
ATM STK11
PRNP PPP1R14A
MAPK3 GMFB
MCM3 LZTR1
TCOF1 WDR48
TLX1 PPP1CB
RAB7A IKBKE
ATP2A2 IRS1
E2F1 LEF1
CAPN1 PTGDS
GUCY1A2 RPS27A
EGFR RASA1
DVL2 U2AF2
DMD SNTB2
EIF3F EIF3I
TG APCS
SIPA1L1 USP11
NFKB2 PSMD2
CATSPER1 MDFI
DMD SNTA1
KRT85 OTUD4
ABCD3 C20ORF24
IKBKE PFDN2
PML HDAC7
TAL1 TRRAP
DCTN3 DCTN1
BCAR3 VCP
RUVBL2 RUVBL1
ESR1 RNF14

MPRIIP MAP3K3
FYN ADAM15
PLAUR LRP1
SQSTM1 TRMT61B
BCL2 TP53BP2
HNRNPK YWHAZ
FYN IL2RB
BCL7B GPN1
CHEK2 ATR
ARF1P1PLD1
CTBP2 ZFPM1
CEP78 SH3BP4
FYN UNC119
SIRT6 ELF5
JAK1 IL3RA
G3BP1 SND1
IKBKB NFKBIB
MET CBL
TRIM25UBE2Q2
CAV1 NEU3
HSP90AA1 YWHAZ
GNAT1 F2R
ALDH1A2 UBE2D4
CREB1 MAP4K5
ATP2B2PDZD11
YY1 TAF7
DDB2 TOPORS
CDK9 MLLT1
PIK3R2 ERBB3
TRAF5 TNFRSF8
STRN3 FAM40B
CCDC85B DOK5
ITGB1BP1 LRP1
PLAU SERPINB6
CCT5 SRRM1
SMAD1 GMEB1
ASAHI SETDB1
IL3 CSF2RB
IKBKB TP53
SURF4 PTP4A3

TAF10 GTF3C5
HDAC1 SUDS3
PPP1R8 C14ORF1
TFAP2A PPARG
CSNK2B CSNK2A1
PRKACA LRP1
PAICS CHD3
PIK3R1 HCST
KALRN GF11B
APOA1 PON1
MCM7 MBIP
ZW10 BUB1
TCF3 RUNX1T1
NKX2-1 GATA6
MECP2 SMARCB1
SUMO3 HSF1
F2RL2 CRK
SLC2A4DAXX
XPO1 MTA2
CD6 ALCAM
KIF3C SUMO1
PABPC1 HNRNPD
BAG4 HSPA1B
POLR2H NFKBIB
GSTM3 TRAF6
IKBKE TRMT112
LCK CD28
HDAC2 IKZF4
GIT2 PCLO
EPS15 MDM2
TAF4 TAF9
ERCC8 COPS6
RGS14 RAP2A
CACNA1A CACNB1
TLR4 BTK
RAB14 INPP5F
RPS27A TRAF1
DOK2 SHC1
PSMC5 PSMD13
UBE2U BFAR

CCNK CDK18
RPS19 CNBP
FYN CD2
LRP8 SNX17
PLEKHF2 MEAF6
CCK CCKAR
CCK CCKBR
DHX15 YWHAG
PNP CCDC90B
NIF3L1 TSC22D4
SRC DAPPI
HTR2C APBA1
RELA TUBA3C
PTMS RXRB
TCEA1 SF3B2
ESR1 UBE2I
LUC7L3 YWHAG
RNF10 UBE2D4
VHL CALM2
UBE2D1 POLL
ASGR2 LASS2
ABL1 PRKDC
CCNT2 CDK9
ABL1 ST5
TRIM23 TRIM31
GABARAPL2 RPL36
FEN1 DDX11
NR3C1 DDX54
ABLIM1 ACTG1
AIFM1 TRADD
PJA2 UBE2D1
INSR PTK2
VTN ITGAV
USF1 SMARCA4
SART3 MEGF10
AR STAT3
RABIF UTP14A
SRC RALGAPB
ALPP ALPPL2
FYN FCER2

TOX4 ZNF512B
C12ORF12 MDFI
RAP1GAP MEX3B
WARS MDH2
RIPK2 NOD2
ABL1 CDKN1B
VAV1 RAC1
CYP27B1 GABARAPL2
PMCH PCSK5
KRTAP4-12 THAP7
EIF4G1 G3BP1
AKT1 SMARCC1
BRD2 NFYC
CDK1 CCNB1
APEH TMEM62
PAICS CEP76
EGFR HSPA1B
FLNA PTK2
HTT PRPF40B
VIP MME
TFAP2A CITED4
YWHAZ TLN1
RAB4A RAB11FIP1
KLC1 MAPK8IP3
MED20 MED29
INHBB ACVR1B
CASP3 CASP10
HLA-B SAR1A
PPFIA3 PPFIBP2
NRIP1 HDAC1
HNF4A SUB1
KLF4 DAND5
IL1R1 IL1RAP
PDCD6 GOLGA2
RRAD CSNK2A1
THNSL1 UIMC1
NAA10 IKBKE
DUSP16MAPK8IP1
GRAP2 YWHAE
GDF9 SERPINB9

AKT1 KHSRP
APOA1 TTR
TCEA1 EAF2
FXVD3 SERBP1
ACP5 RPA2
GH1 RHOC
MYST2 WDR33
BLM RAD50
TRAF2 TBC1D17
PTP4A3 DDX20
RFX1 SMAD1
UBE2H TRAIIP
PDCD6 YWHAZ
CCDC85B EZH2
UBE2D3 ZNRF2
LYN ABI1
EPB41 U2AF1
AKT1 BAD
HADHA MAP1LC3A
GABARAPL2 RABGAP1
MBP CDK12
LCK KIT
CCBP2 CCL13
SRSF5 PPARGC1A
PIK3R1 LAPTM4B
RPS27A TRIM32
PLCG1 ABI1
TUBB NFKB1
TFAP2A SH3BP4
SDHB PIK3R5
LRRC1 KIAA1377
DPEP3 HDAC1
STAT1 PRKCD
IKBKE TBK1
RAP2A MLLT4
ZNF24 UTP14A
RAB27A RPH3AL
ATN1 LTBP1
RAB3A RAB3IL1
RPL35ASH3GL3

TOP1 NKX3-1
CRK PALM2
KPNA1 CSE1L
ELN FBLN1
RET NRTN
VCP UBXN4
TNFAIP3 TBK1
SLC22A24 EWSR1
MAP3K7 TRAF6
NCOA2 NCOA3
WARS DDA1
EP300 HDAC1
TP53 MED17
MET PTPN1
BUB1 AP4B1
MMP10 HAPLN1
MATN2 COL4A6
AP4M1 CACNG3
YWHAE CGNL1
TRIM29FBXL19
NFE2 ITCH
STK16 RPIA
CTNNB1 CTNNBIP1
HSP90AA1 PRKCD
GNL2 USP36
HDAC6 PLAA
HR RARB
HR THRA
PFKFB2YWHAZ
PRKCQ STK39
UCHL3 ATXN7L3
PARP1 MEPCE
WDR33 UTP14A
YWHAZ WNK2
VCP NDRG1
FN1 TNC
RIMS1 BSN
JUP PKP2
SHC1 GAB1
DYNC1H1 DISC1

RPS11 TH1L
HIST1H2BB KAT2B
CRK DLGAP4
PAICS GNAS
PAK2 SH3KBP1
TRIM23ZNF581
SERPINA1 SSR1
NCOA2 PIAS3
MDH2 PSMD4
GRIN2B EXOC4
PLSCR1ATN1
ILK ILKAP
HLA-B MCM6
TAPBP HLA-A
KIAA1267 MYST1
CTNNB1 SALL1
PHF21AHMG20B
PTP4A3 ATP6V1H
CASP3 STK24
IL2RG PTPRJ
SOAT2 TNIK
SIN3B ZBTB4
ST13 VAV2
MAGEA4 TRIM69
ADCY5 PRKCA
FUS ZMYM2
GH1 CALM2
IRF3 TANK
SRC SKAP1
FAM40A STK24
MSN ARHGDIA
CRK EPB41L3
PTP4A3 IPO11
NOTCH2 LFNG
HNRNPH1 RQCD1
TRIO PLCG1
NEB TTN
DENND4A SERTAD1
RANBP2 INSL6
FGF2 FGFR1

FYN CRK
SUPT5H CDK9
PTN TAF1D
CEACAM8 CEACAM6
EP300 OLIG2
RNF13 UBE2D3
ITGB1 TENC1
PSMD6 UBAC1
EMILIN3 CXXC1
LUC7L3 SRPK2
SRC TRAT1
FYN PRKCQ
HLA-A RPS27A
EGFR SLC3A2
TUBB Bmpr2
KRT18 CCDC85B
VIM CASP3
SF3A2 DDX46
RPS15ANFKB2
CLU TGFBR2
NFE2 CREBBP
PRKACA CUL5
GADD45A DCTN2
ATG12 EIF3A
POLR2G USP45
PSMD10 USP14
IKBKE DSTYK
PRLR RPS27A
HMGB2TRAF6
STX5 INSL6
BTG2 CNOT6L
BRCA1 FAM175A
LPHN1 APC
MAPK7 PTPRR
CLCN5 MAGI1
PSMB4 SMAD1
MAX TBC1D9B
MAPK3 CIITA
KRT15 WAC
STC2 CARHSP1

TUBB4 MAP3K8
EGFR CSK
ZNF24 ZNF434
SART1 SUMO1
FKBP6 HSP90AA1
EP300 SNW1
NGFR BEX1
SSBP2 IL1F5
EIF3G EIF3K
ERBB2 PTPN11
FSHR CANX
HLA-A LILRB1
ESRRA GTF2B
XRN2 RAPGEF2
HGS SF3B3
HCFC1 ASH2L
MAGEA11 C18ORF54
TGFB1I1 PTK2B
EDN3 EDNRA
SF3B1 IKBKE
GTF2A1 GCN1L1
MAP2K6 MAP3K4
TXN FST
DNAJB6 WNK1
EP300 NEUROD1
TAF10 ELAVL1
EP300 TDG
ATP5C1PNO1
HLA-B LRRC59
YWHAZ CDK18
RPS27ANKD2
SUMO1 CASP8
SUPT5H PPP2R2D
HCFC1 PPARGC1A
NR1H4 PPARGC1A
EGFR PTGDS
DAND5 RNF4
MYST2 HIST1H4I
TAF1 TAF2
TP53 MLL

CD3D DERL1
RIBC2 NINL
NOP56 FBL
C1QA FN1
CUL4A AMBRA1
APBB1 EVL
NTRK1 GIPC1
GOT2 PACSIN3
SCN5A DLG2
ATF2 COPS5
ARRB2 MRPL44
CTSD CTSB
ORC2 CDT1
EFNA2 EPHA3
SMARCA4 SMARCE1
CCNE1 REL
EPS8 ABI1
TUBB B4GALT1
UBE2D1 XIAP
EGFR PCNA
PSMD3 GH1
NSF PTPRK
SRSF1 CDK12
INHBA ACVR2A
GRB2 TRIM39
SMC2 NCAPH2
EFNA2 EPHA2
TXNL1 CDC42
UBE2L6 RBCK1
MED20 MED9
PPM1F MARS
NEK9 MAP1LC3C
RAB4B RABAC1
GATA4 NFATC4
L1CAM RDX
PRKACA STMN2
CALCR CALM2
CCNA1 KLHDC9
PPP2R1A STK24
SKIL NCOR2

DLG4 GRIK2
NBN RFC1
GABARAP STK4
HIP1 HTT
VSIG2 YWHAZ
RAF1 AGTR1
PRKD1 HDAC7
CENPB NUF2
ANXA2 GRB2
U2AF2 C1ORF190
SMAD2 SORBS1
CUL4A CRBN
PIM1 SNX6
SNRPD2 WDR77
VIM IVNS1ABP
DOM3Z EXOSC10
KRT15 TCHP
UPF3B RBM8A
FLNA USP45
TPR SUMO2
CBL RPS27A
ALDH3A2 MAX
CEBPB NFKB1
ERLIN1 TRAF6
FYN MAPT
U2AF1 NXF1
EZR ICAM3
NTRK2 SHC3
MAPK1 PRKCE
ARHGAP18 MPP6
RAF1 LCK
NR2F1 LGALS12
MPDZ OR3A1
CDK1 PLEC
PSMD11 NFKB2
CBL GRB2
HCFC1 USP53
EPB41 RANBP1
PTP4A3 XPO7
MED7 PCBD2

TACC1 LSM7
NR4A1 PHIP
HSPD1 SRRM2
NR3C1 EP300
LMNA NARF
TGFB1 SAMD8
PLCB3 PARD6A
GH1 ADRM1
PCBP1 QKI
TNFRSF1B TUBB2B
RAF1 FYN
KLHL9 KLHL13
CAD YWHAZ
FYN GRB10
ZRANB1 TRAF6
MAPK3 STMN2
SRRM1 ASB7
PPARG MAFF
ATP5A1 YWHAZ
MYCN CDKN2A
PRLR PPIA
GH1 GDI2
PRKCG CHAT
KNG1 THBS1
RASSF8FRMD6
ZNF225 PITX1
NFKBIE HSPA1L
SNUPN SNRPB
SMAD2 BTBD2
VAMP1 STX1B
PDS5A CDCA5
MED22 GOLM1
ATXN1 KCNAB2
PHEX FGF23
LDHB SUMO4
MRPS31 USP42
SGK1 PFAS
TSHR CALCR
ZFP36 HDAC7
PTPRS UTP14A

IL6R IL6ST
RAB37 EWSR1
PPP1CAPP1R10
ITGB2 ICAM5
HDAC3 TBL1X
MAPK6 MED19
STAT5B ERBB4
USP13 KCTD10
SOD2 DYNC1LI1
KHDRBS1 TNS3
UBE2I HSF2
KPNA6 TAF9
BMX PAK1
MITF LEF1
NTRK1 PTPRG
WDTC1 USP3
GRAP2 PTPN23
HOXC8 DLX2
UBC PSMD4
NOTCH1 GF11B
PPFIA4 PLCG1
ANXA2 CTSB
SHC1 ARHGEF3
RAF1 LRPAP1
NTRK1 PTPRB
EPB41 RAB11B
PRKD2 HEY1
SIN3A HEY2
RUNX1T1 PRDM14
GABARAP FKBP4
A2M RHEB
TAF5L CEBPE
NRP1 SEMA3A
SMAD2 GFM2
NPM1 CDK2
UBE2G2 RNF168
PSMD6 ATAD3A
RHOQ GOPC
FGF3 FGFR4
PI4KA PITPNA

CBX3 HIST3H3
PCBD1 NUDT18
PPP4C TTC34
RPS27ACDK5R1
UBC ADRM1
TP53 NEDD8
RPS27ANEIL2
RAF1 INSR
TSHR GNA13
PABPC1 EIF4A2
NHLH2 LMO3
GRIK2 PICK1
SAP30 BRMS1L
CREB1 ZNF451
UTRN PIK3CG
SET TNIK
AIRE TOP2A
C3 CFP
TRPV5 EWSR1
GPR37 PARK2
YWHAB RPS6KA1
ACVR2A MAGI2
ARFIP1 ARF3
TAF10 TAF6L
EP300 YAP1
UBC VCP
SKP1 FBXO33
BCL2 BIK
TP53 STK11
SUV39H1 RBL1
VIPR1 GNAS
EIF1B PSMB3
MYO1BRIPK3
EP400 RUVBL2
CIB1 PLK2
PAFAH1B3 PLEKHM1
PRNP FAM64A
TRAF2 SMURF2
NUDT21 CPSF7
TGFB1 RAB38

LCN1 KHK
NEK6 SMC3
SLC2A4EHD2
UBE2L3 PINX1
HTR2A RPS6KA3
STX11 TAF6L
GNG2 GNB4
SMAD3 ITCH
RB1 SNW1
RB1 DGKZ
PAR6B PAR6A
MIDN MAP4K5
HRAS RAP1GDS1
FOX2 PAK1
TGFB1 RAB25
LCK LCP2
FYN NEK8
HIPK3 HEYL
PTPRC DPP4
TRPC1 TRPC5
DAND5 SHC1
STC2 POLR3F
RHOA KTN1
CD74 CD1D
GNG2 SMURF2
SOD2 KIAA1549
PHC1 PHC2
LASP1 MDFI
PTPN1 CSNK2A1
GNG4 GNB2
BRPF1 PBXIP1
GNG4 GNB1
ERBB2 RIN1
EIF4G1 EIF3I
CUL5 ASB6
TPST1 GP1BA
RXRB CACNA1B
WWP2 USP7
ABCD3 PELO
PRKCZ WWC1

CLTC INPP5F
RB1 HDAC1
FGFR1OP2 STK24
TRIM29DMRT1
DTNB SNTG2
GNAZ NUCB1
PTP4A3 GGT7
HADH UBA5
XPO1 MEPCE
RPS6KB1 MTOR
CDK2 PPP1CC
NUP107NUP85
GP1BA FLNB
RPS6KB1 PIK3CA
SLC38A1 KAT5
CRK AKAP6
S100A10 COPS6
HOMER1 C1ORF116
RAB33A RTN3
IKBKE RAB21
DHX9 DPEP2
DLST OGDH
FYN CCR10
COL8A2 COL8A1
BSN UNC13A
ATM MED1
SOX10 SUMO1
CHD1 NCOR1
TRAF3IP2 TRAF6
CREB1 ZMYM2
FANCC FANCM
PAX6 WNK1
PIM1 ABCG2
MUM1 PROX1
PRKACB RYR2
RELA TP53BP2
F10 SERPINB6
BECN1 ATG14
CD226 PVRL2
IKBKE C14ORF1

RASA1 PTK2B
EIF1B TPT1
TOMM70A HSPA1B
ARHGEF7 NCKIPSD
ZBTB25COIL
SMAD2 ABTB1
PPP2CARACGAP1
GOT2 TNIK
MAPK8 PAX2
RING1 CBX8
MED1 MED25
TCEA2 TRAF2
ZBTB5 ST3GAL3
EPC1 ING3
SPI1 CEBPE
EGFR MAP2K1
ZBTB16PSMD2
EIF1AX PINX1
RBMX RB1CC1
PLAU LRP2
PAEP XRCC6
OXSR1 SUMO1
RAB5A GGA3
TNFRSF1B ACTG1
TP53BP2 MRPL20
FBL PRMT6
TEC PTPRK
UBE2D3 MIB1
SIN3A DPEP2
YWHAZ DDB1
H2AFJ ATF2
DNAJB6 TP63
EIF4EBP1 UBAC1
ATIC ELF3
PTN UBQLN4
MAP3K10 KIF26A
PRKCQ MALT1
MDM2 CTBP1
TNFAIP3 YWHAH
C1QA C1QC

C1QA C1QB
FLNB NFKB1
SETDB1 PIAS4
WBP4 PABPC1
SIN3A DNMT3B
GNAL SPATA2
SHC1 LTK
KPNB1 TPX2
AP1B1 KIF13A
COPS5 COPS4
HDAC4 BRMS1
MAP2K3 PLCB2
RPA1 RB1CC1
CIT DISC1
MAPK3 PXN
MAP2 PLEC
STMN1 MAPK3
RNF130 FGFR3
USF1 KAT2B
HNRNPM YWHAG
WDR48 AHCYL2
SLC9A3R1 TBC1D10A
DEPDC1B MCM2
SMAD7 SMAD6
CLDN1 TJP2
HGS PPP1R7
FGR SRC
EGFR FKBP4
HOXA1 MDFI
PGK1 HIF1A
EP400 RUVBL1
USP6 ATXN7L3
C17ORF42 KBTBD7
GRIA1 PICK1
XPC DDB1
NRIP1 FHL1
RYK EPHB3
IKBKE NUDT5
TADA3 ZNF7
SHC1 GRAP

SKIL HEY1
FYN MKI67
NTRK1 ACP2
KLHDC5 UBQLN1
TRA2B SREK1
ARID4B HDAC2
SATB1 KAT2B
ORC3 RPS27A
CXCR2 ARRB1
TP53 RAD23A
FOXO1 SIRT2
SRGAP2 ITSN2
ORC3 GRB2
CHEK2 RAD50
GLUL HTR2A
GTF3C2GTF3C3
SH3GLB2 SH3GLB1
RBBP5 ZNF335
TP53 EFEMP2
GTF3C2GTF3C5
TGOLN2 FYN
MAP2K4 MAP3K14
RALB EXOC2
AR SLC25A4
HGS RSU1
CFLAR FAS
SMURF1 ASH2L
TSC22D1 MMS19
SKI MECP2
ARPP19IKBKG
NTRK1 PTPRO
INSR PRKCD
P4HB TRIP6
CRYAABCL2L1
LYN GAB3
CREB1 MTF2
WDR48 NAF1
IFITM1 CD19
RBM39 SRRM2
TGFB1 FN1

MYL1 ACTA1
ZNF408 SAP30BP
PRKDC SIRT6
SRC KCNA5
NEO1 NTN4
SERPINC1 SDC2
ADRA2A EIF2B1
MCM7 GABARAPL2
CRK PDIA2
RAB10 RIMS1
RGS10 ACP6
IRAK1 TAB1
POLR2G MED9
CIRBP SF3A2
IL7 IL7R
HNRNPR SF3A2
AXIN1 CRMP1
ESR1 CCNH
SHC1 MAP4K1
ESR1 MNAT1
SERPINE1 KRT18
RAB10 TRAF6
USP1 DSG1
EPHB6 SLC38A1
CDKN1B YWHAE
TGFB1I1 GIT2
RAPH1 ENAH
IKBKE SIKE1
CR2 CR1
BRD4 MED17
PVALB ITGA6
DLL1 PSEN1
AIRE HSPA4
PRPF40A FMNL3
CCNT1 GRIPAP1
MAGEA11 DNAJC10
DDB1 DCAF10
SIAH1 BAG1
POU2F1MNAT1
EEF2K RPS6KB2

RPS6KA5 STK11
EGFR EPPK1
RARA RUNX1
NEDD9 SH2D3C
FBL COPS5
FRMPD4 STK36
PIGA PIGY
IL6R SRC
S100A8 UNC119
ACVR2B TGFBRAP1
NOTCH4 DLL4
SDC4 PXN
SH2B2 NTRK2
COL8A1 ADAMTSL4
TBC1D5 AP2M1
NUMB PRKCZ
TNIP2 SMARCD1
PTK2B STAP1
PRSS23 PPIA
PTN C9ORF82
BAG6 TOMM20
ZFYVE9 DAZAP2
CHRNA1 ITGA7
EIF3H SRRM2
HNRNPC MEPCE
MYH7 DISC1
CDC42 CABLES1
STAMPB UBC
PLEKHF2 GPBP1L1
IKBKE C6ORF125
FANCA CCT3
DLGAP3 DLG1
ORC3 SYK
ORC3 ZAP70
SMNDC1 PPAN
ICOSLG ICOS
MYBL2 E2F4
ACTC1 MYLK
RAB3A DMXL2
AKT1 ITPR1

NFKBIA HSPA9
YWHAZ SIK3
NCOR1 ZBTB16
MAPK13 FGF12
MXD1 SMC3
SSSCA1OAT
HDAC1 EFCAB6
CBL UBE2D2
TERT MCRS1
NCOR1 PHB
CRYAAHSPB1
MDM4 YWHAE
MYL6 EWSR1
VENTX TLE2
VENTX TLE1
HTRA1 FAM46A
PRKCD NFE2L2
CHRM3 GRK6
UBE2D3 ARF6
RLF CBX3
ROS1 PTPN6
YWHAZ EPB41L3
JUP PKP2
KRT35 DLG3
SLU7 TNF
HK1 VDAC1
MED1 MED13
MYF6 ID3
PTPRG TEC
ROS1 VAV3
PQBP1 SF3A2
JAK1 SHB
CRYGC CRYBB2
AXIN1 TRIM29
GC CDC73
SPRR2A CRK
SUPT7LMED16
UBA1 RBCK1
HDAC1 DHX30
BCL3 GTF2B

CNTFR KRTAP4-12
L1CAM RANBP9
IL2 FO XK2
PDE6D PTGIR
MPP3 RAB31
RUNX1 RUNX1T1
FXR2 OTUD4
PTP4A3 CNNM3
TGM2 COL18A1
PPP1CCHDAC6
PCNA KCTD13
DLG1 TJAP1
MYOG MDFI
DYDC1 DPY30
BMPR2 NBEA
KLRC4 MICB
TSPAN6 CHD3
KLRC4 MICA
AR HMGB2
TUBB RIPK1
APC CTNNA1
SFN SHROOM1
APC CTNNB1
TP53BP2 TP63
PER2 PGAP3
UBE2L6 TRIM8
NR4A3 KDM5B
TIMP1 MYOC
SNRPB CTDP1
REST HDAC2
TNF LIN54
PGR FGFR2
PTPN2 CDK2
CYP27B1 KDM5A
SQSTM1 MAP1LC3C
CRCP POLR3H
NKX2-5ID3
RELA HDAC1
F2RL2 ECT2
EED HIST1H1A

SQSTM1 MALT1
ANKRD11 HDAC5
MAVS TBK1
TGIF1 INSL6
STAT1 STAT2
HCK RPL10
MED7 MED28
HSPB1 ACTC1
MATN4MATN1
IRS1 JAK3
CTBP1 HDAC1
HIP1R CLTB
HIP1R CLTA
PML TGIF1
GTF2E1BRCA1
GRB2 WIPF2
PSEN1 GSK3B
PRPF4BUSP39
CRP SNRNP70
AIFM1 MLF2
RCAN1 UXT
IKBKB BTRC
TP53 SMAD2
FYN GRIN2B
CD4 SELL
PKLR PAK1
NFKBIA POM121
MGMT PRKCA
RXRA NFKB1
XPO1 RANBP1
GATA5 KLF2
RHOA RPS27A
USP10 G3BP2
TUFM CCNA1
ZNF259 EEF1A1
DHX37 DDX56
MCF2 RHOG
PTN TOMM20
GSK3B BICD1
ANXA2 LGALS13

ENO2 NDUFS7
FXR2 EWSR1
DOCK1 MAP1LC3B
ATG13 MAP1LC3B
NR3C1 ZNF483
DES ROCK1
RAB27A C14ORF1
CRP CFH
MAP3K7 FLNA
SPI1 CREM
APLP1 ING5
ADRBK1 CAV1
PIAS4 BARD1
GOLGA3 SRR
ACTN4 MAGI1
C3ORF10 NCKAP1
MAPK6 CNOT1
TSNAX AKAP9
YWHAB DENND4A
PSMD7 UBAC1
PRDX6 PPARD
TFAM TFB2M
VIM PKD1
TRAF6 TARSL2
FAM58A FEZ1
PRLHR GRIP2
AKT1 DLC1
SERPINB2 IRF3
GNB2L1 LARP4B
NEDD9 SMAD2
TP53 HUWE1
NEDD9 SMAD1
RAB1A GOLGA2
YWHAZ NCKAP1
FYN NBEA
PLD2 OPRM1
CCNA1 ATXN2L
ADRB1 ARRB2
RALYL MCRS1
RAB3B RIMS2

RELA IQGAP2
HSP90AA1 AHSA2
ZNF24 CRMP1
PPEF1 CALM2
PAX6 PKNOX1
RNF40 SPRYD5
TTI1 PIH1D1
NPDC1 HNRNPK
TRAF2 SMURF1
APPL1 RUVBL2
WWOX CPSF2
NFYA ATF6B
HSF1 DAXX
GMNN MCM6
PCNT DISC1
TP53 MAPK11
FYN KIT
SRP72 PINX1
EIF4G2 PAK1
PSEN1 PSEN2
SOCS7 IRS4
HSP90AA1 NDRG1
MARCH3 UBE2W
PGR JDP2
PSMD2 PAAF1
FURIN ZP1
FLT4 VEGFC
DRD2 GNAZ
PABPC1 NDRG1
SUMO1 MEF2D
TNFRSF10B CASP10
GNB2L1 NSMAF
MRPS12 C14ORF1
MCM4 MCM8
FYB SKAP2
STK11 STK11IP
MLNR GHRHR
ZC3H13 HES4
NUMA1 SMC3
PRKAB2 RB1CC1

GRAP2 SHB
ATP1A1 SMAD2
KCNB1 KCNG2
KRT31 PLEKHB2
KCNB1 KCNG1
CHEK2 MUS81
MAP3K7 TNFRSF11A
SMAD4 PIAS4
RPS27ADAZAP2
SMAP1 PHLDA3
GATA1 HDAC5
TJP1 SPTAN1
HLA-B KIR3DL1
FYB NCK1
SMAD2 DOCK9
COPS5 MKNK1
PRKD1 EPAS1
FYN NR5A1
FYN G3BP1
IRF6 ZBTB3
TNF CARS
SUMO3 STAB2
DISC1 TFIP11
UBE3A EAPP
RAMP3 VIPR1
PRNP C7ORF50
TNF ADAM9
PSMD6 CEP250
PBX2 ZDHHC7
SNRPB2 IKBKE
YWHAZ RUVBL1
RAP2A GPRIN1
SMAD1 CAMSAP1
PPP1CCSKP1
FYN SLAMF1
USPL1 ANKFY1
RHOA MPRIP
SPTBN1 PLEKHA5
FARS2 G3BP2
BID RHOA

GNB1 CACNA1C
RNF144A UBE2K
TSC22D1 NUP93
PTPRB CNTN1
AKT1 MAP3K8
GABARAP PRKAR1A
SFN KCNK9
MAP2 RNASEH2A
SRC PPARGC1B
YWHAZ RUVBL2
PTN UTP3
PIK3R2 EGFR
TGOLN2 MMP14
RPL15 RAPGEF2
CNOT8 CNOT6
KLF4 CREBBP
PSMA3 AURKB
CCT3 EIF2B2
CTBP2 HIC1
F2 SERPINC1
GZMA SET
VIM DSPP
SMAD3 LEF1
HDAC1 BRMS1L
ITGB4 PRKCD
CHD2 PHB
IKBKB TUBB4
BMP4 CHRDL2
UBE2G2 RNF157
EPX PIK3R1
PSMD11 PTPRK
UTRN DISC1
MCM5 MCM2
PSMC3 EPAS1
SMARCA5 SMC3
UBC PDCD2
MYL6 USP46
TNFRSF1B RPL38
TMEM50A C7ORF43
PSMC5 SRRM2

SMARCA2 PITX1
ZNF165 FAM124A
SPTAN1 DISC1
LAMA4 ZHX1
PSMF1 QKI
UBE2U TRIM15
CD72 GRB2
PCNT DISC1
NCL CYFIP1
LCK PAK2
CLDN4 WNK4
BIRC2 XAF1
FANCMFANCL
DIO2 CUL5
NAE1 TP53BP2
CASP4 SLC25A1
TRIM25 PITX2
PIK3CA GNAQ
MAP3K7 FLNB
IL12RB1 IL23A
ITGA6 COL17A1
XRCC6 POR
SMAD1 STARD13
THRB PRMT2
LUC7L3 SRPK1
BACH1 RBCK1
SOX9 EP300
CNTN2 TAB2
ACTB SMAD3
GRB2 MICAL1
CCT5 XRN1
UBE2D2 RMND5B
GTF2H1 HNRNPU
DISC1 MYO1A
KALRN SUMO2
RELN VLDLR
ARID2 CHD7
CHRM3 PPP1R9B
YWHAZ AANAT
ATF1 CAMK2G

ATP6V1E1 ATG5
TP53 COPS2
RELA PIN1
PSMD11 PTPRK
PDGFRB STAT5B
ATM TERF2
HNRNPM TNFRSF10D
ABL1 RAN
F2 KNG1
CRMP1 RPA2
UBE2U TRIM5
SAP18 POLE2
ID3 RUNX1T1
ZBTB17DNMT3A
FTCD GRB14
POLR2C TAF15
GNB4 RIPK3
B2M HFE
RAB3A SYTL5
C7ORF64 WDR33
GRB2 SHC2
AP2A2 AMPH
UBE2U TRIM2
CREB1 KCNIP3
PAK1 ZBTB40
AFF1 MAPK14
CSNK2A1 MDC1
HDLBP FAM46A
TP53 NQO1
VPS53 VPS52
SLC9A1TNIK
DAND5 REL
MAPK14 POM121
PRKD2 LGALS12
RELA CARM1
SS18L1 GATAD1
GRB2 DAB2
WEE1 CASP3
NCOR1 KIF11
PSMC4 IKBKE

HERPUD1 SYVN1
UBE2D1 TRIM39
GFAP DAXX
EPB41 YWHAB
PDIA3 SUMO4
EPB41 STIP1
CAV1 TRAF2
EPB41 S100A11
UBE2D3 RNF130
HNF4G RANBP9
MED7 PML
EEF1A1MRPL42
CTNNB1 TCF7L2
FOSL2 RNASEH2A
PLA2G1B CSF3R
ANXA7 ALG2
CDK4 CDKN1C
TBC1D4 NFAT5
HLA-A PDIA3
MAGEA11 ZSWIM2
PSMC2 PSMD5
SRI CACNA1C
GTF2A2 HSF1
IGF1R CBL
ACTA1 MIB2
PARP1 HIST1H1A
WASL PACSIN3
CSDE1 TNFRSF10D
NF2 SOS1
C1R C1S
CDC7 CLSPN
SDC3 EPHB4
BBS7 BBS2
HIVEP2 WNK1
YWHAZ MAPK6
YWHAZ FSCN1
EIF2AK2 STAT3
GSDMD MAPK6
EZR CASP8
TRIM23 TROAP

MME CSNK2A1
MYH10 RELA
RORA RUVBL1
CDKN2A TPI1
PRNP WIBG
EP300 RUNX3
NCK1 FLT1
TRPC1 HOMER1
PRKD2 MTF2
PCBP4 LYST
GRB2 HIST1H3J
SRC HCN2
KLF4 HDAC2
BCR GRB2
TXN NFKB1
EEF1A1 BRMS1
SMAD1 VPS24
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ZRANB2 YY1
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KAT2A MED16
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NRP2 FLT1
MUM1 HOXB13
PCP2 ADRA1A
ATP5J2 ARL8B
DDX3X ELF3
POLR2G MED29
TOR1A DYNC1H1
GPS1 COPS8
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KRT18 TRADD
KISS1 MMP24
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MLL CDC73
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HCK PLAUR
GABRG2 DRD5

SPP1 CSNK2A2
UBE2E1 UBE3A
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KIF5B MEPCE
PRPF40A MECP2
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PRKRA RB1
STK16 KCNH4
HOXC8 GRB2
KCNAB2 SQSTM1
PSG3 FAM46A
FANCA PCNA
TLR5 RNF216
TP53 PSME3
CACHD1 XAB2
KHK RANBP3
HBP1 ANKRD2
HNF4A NRBF2
LBR FNBP4
PAK4 LIMK1
PDGFRA PLCG1
UBE3A UBQLN1
ILK DHX36
TFAP2A EP300
F13A1 FN1
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EGFR KRT7
LDB2 CTBP1
XIAP UBE2E2
RUNX2 SMAD5
PDGFA FURIN
ERH SH3GL2
MAPK1 ID2
FHL3 PAK7
SMAD9 VPS8
TUBG1 IKBKG
UBE2D1 RNF11
NANOS3 HTRA1
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KIAA1267 NINL
HTR2B GNAQ
UCHL1 RANBP9
NUP98 HNRNPUL1
CST6 PINX1
ANXA1 NFKBIA
TMED10 GORASP2
KIAA0776 UBE2D2
TP53BP2 EEF1A1
TKT YWHAZ
HCK MAP4K5
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CASP1 NOD1
ABHD16A GPRC5C
DLG1 KIF13B
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GEMIN5 DDX20
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ZNF434 ZNF167
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HDAC2 REPIN1
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HLA-B UBE2K
ITGB1 LAMA1
MAPK9 SF3B4
ARID2 BCL7C
SKP2 COPS5
ADCY5 PRKACA
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PBX2 SMYD3
ENAH ABI2
HLA-B UBE2D3

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ZNF638 KIAA1279
SMAD7 MAPK14
ECHS1 IKBKE
UBE2W RMND5B
FHL2 SAP30BP
SIP1 CTBP1
NUCB2 CASP8
DDB1 DCAF13
LY6H DVL3
SLC16A3 BSG
YWHAG WNK1
ZWINT MAD2L1
PTN GTF2F1
TRAF5 TNFRSF12A
NXF1 NXT1
INS HLA-DQB2
ZYG1 BSPLY
NUDT1 RNMTL1
SRC SH2D3C
RRP1 THOC4
PTS PBRM1
PSMC2 GTF2B
PLCG1 PLD1
CD3D AMFR
SDSL TUBGCP4
PTPN18 PSTPIP2
ERH TLE1
HSP90B1 BIRC2
KRT14 PKP1
FURIN BACE1
PPP1CCMAP3K3
SHC1 MAPK8
ZW10 DCTN2
ASPM TP63
APLP1 KIAA1377

CBL SCN5A
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SMAD9 CPXM2
LMO4 RBBP8
CAV1 EEF1A2
PTP4A3 DNAJB11
RALB BECN1
VPS28 ASF1A
CD2 MXD1
GATAD2B FOXP2
RSF1 WNK1
FLT3 RPS27A
EDNRB CAV1
SMNDC1 DDX21
EXOSC6 NDUFA13
MAPK6 CYP20A1
CDK1 DLGAP5
REN KCTD15
RUNX2 HDAC7
KLHL12 RIT1
INSM1 HDAC1
RPF1 AMOTL1
DRAP1 POLE3
FYN BRCA2
GH1 PPP2CB
HAND1 HEYL
FLT3 GRB2
APC MYH10
UBE2D3 DTX1
IGFBP4 HK3
CACNA1G UBQLN4
DMRTB1 EWSR1
MEF2A ZFR
MUC1 ZAP70
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YY1 HSPA4
CSNK1A1 SYT12
FHL3 LNX1
NCOR1 NR1H3
RUVBL2 TELO2

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CD44 HBEGF
RAMP1 IAPP
TCERG1 TPM4
TBPL1 PMVK
HLA-B RAB2A
CSNK2A2 CREM
RUNX2 CBFβ
PEPD ATXN1
GFAP MAPK14
DNM2 SH3GL2
NR1H3 LZTR1
BCCIP PRKAB1
RPA1 AKTIP
CTSD PSAP
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NR3C1 NCOA4
XRCC6 CREBBP
TLR4 SIGIRR
CDK9 HSPA2
XPO1 RCC1
ABHD16A UPF1
STAM2 XRN1
COPS5 KLHL15
CTBP1 BMPR2
PRKACA ACCN2
SSBP2 EWSR1
VCP UBE4B
DCXR TRAF6
IFNGR1 NFKB1
UBE2D3 DZIP3
XPO5 IKBKG
INSR DOK4
GP1BA SELP
CTCF SMAD3
MSH6 RPS27A
MAPK1 KHDRBS1
GRB2 SMU1
UBL4A HUWE1
GADD45G CCNB1

GDI1 RHOH
HOMER1 TANC1
PIK3CGPIK3R5
DDB2 USP40
BUB1B AP2B1
OS9 SMAD2
MED26 RBP1
RAB8A OPTN
TLR2 HRAS
LYPLA2 MED31
LCK CCR5
DLST USP13
DAND5 PRKDC
POU2F1HCFC1
XRCC6 NHP2L1
APTX ZNF639
FNTA VAV2
KRT85 ATG3
VIM GOPC
PSMA7 MCC
RGS12 GNAI2
SH3KBP1 ASAP1
SGK1 CAMKK1
DTNBP1 ZNF490
CDK9 RUVBL1
BCL2 BBC3
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SMARCA1 RBBP7
RABIF RAB1A
ZNF638 HOOK2
IKBKAP PLP2
MGEA5 HAP1
USHBP1 FATE1
SOD2 IKBKE
MAPK1 CASP8
SKIL RNF111
EIF1B ETFA
CHMP1B CHMP5

EPB41 VAMP3
ZNF350 RNF11
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SEC24BPLCG1
USP28 USP25
TP53 MAPK3
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SRRM1 OGFR
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FAM13A MEF2C
WDR62 TBP
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ATXN1 PRRC2B
RXRB PPP3CA
CREB3 BNIP2
EPB41 RPS21
SMARCA2 CDX2
GUCY1A2 DLG4
GTF2E2MNAT1
RUVBL2 RIPK3
ATP4B STX1A
GTF2E2CCNH
SNRNP70 RNPS1
DFFA CYP4B1
EMD MED4
RAF1 RB1
SKA3 SKA1
PPFIA1 NCOA2
COL8A1 EFEMP2
ETHE1 ATP6V1H
NCOR1 REST
VTA1 TRAF6
BCL2L1BLID
EXTL3 PLCG1
MYH1 ACTR3B
DIAPH1RAC1
RUVBL2 TRAF6

YWHAG ARHGEF6
PGR SMARCD1
ACTN1 PTPN6
ACTN1 SHC1
RDX SLC9A3R2
LIMK1 PAK2
SMARCD1 ING1
SRC EVL
H3F3B ASF1A
SSSCA1VTA1
ERI3 PRNP
CDK9 RUVBL2
KRT18 BBS2
NBR1 MAP1LC3B
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RELB SMARCB1
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CD72 BLNK
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UBE2D3 RNF2
MTNR1A RAB10
YWHAB KLC4
CALM2 PIK3C3
TOR1A TOR1AIP2
HGF SDC2
FN1 MAG
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PDIA3 BACE1
MLF2 FAM96B
CAPZB TRAF6
RARA HDAC4
FOXO1 SKP2
PTN FAM176A
NRP2 SEMA3B
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TXNDC9 IMMT
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WAS DLG1
GDF5 ACVR2B
GRN GFI1B
GRIN2B AP2M1
MEN1 EBF3
GATA3 ZFPM2
AGT ACE2
MED7 RELA
DTX1 UBE2D4
SPRY2 SPRYD5
BUB1B BRCA2
HSPA1B PRKCZ
LYN MAP3K3
CBX7 BMI1
CBX7 PCGF2
NMT2 CASP3
NKX3-1 HIPK2
DUSP1 MAPK8
DUSP1 MAPK9
SMAD7 MAP3K7
KCNA1 RTN4
CDKN1B GRB2
ASCL3 GTF2A1L
DAPK1 RIPK3
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ZMYND8 FHOD1
CSTA PTN
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DTNBP1 PLDN
RIPK2 NOD1
EHBP1 EHD1
UBTF TBP
CYP27B1 SMAD3
THRB PPARGC1B
POU2F1 STAT5B
SYP VAMP2
CD36 CD9
PSEN1 DOCK3

USH2A COL4A3
SMAD9 DIAPH3
PDCD6IP SH3GL2
PDCD6IP SH3GL3
PDCD6IP SH3GL1
MAPK1 LIFR
JAK1 IL21R
SCNN1A USP10
KIF3B MAP3K11
CREB1 CHD8
MAF AHR
LIMK1 PAK1
NFKBIB FBXW11
KRT20 FXR2
UBE2D1 RNF14
ALPP PIGK
IKBKE NAA15
MAST2 GCN1L1
KIF3A USP7
RPS27A SMAD1
ELK4 ID2
RPS27A SMAD2
KCNH4 SUMO1
UBTF CCNA2
WAS PTPRJ
JUND RFWD2
ABL1 MKI67
MARK3 PNPLA2
RNASEH1 TNFAIP3
CCT8 MAP3K1
DDX58 UBE2D1
GFI1B DNAJA3
MGST2 HDHD2
QARS RNF11
MYO15B RAD54B
GSK3B FIP1L1
HAP1 TIMM17A
MYC RAGE
SMARCA5 CHD3
TAL1 LDB1

GUCY2F GUCA1B
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PRRC2A PRMT2
GORASP2 TRAF2
REM1 YWHAE
RPF1 RPAP2
ZNF225 CDKN2A
EFEMP2 GF11B
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KLHL26 UBQLN4
USP46 SET
HAP1 NDUFB9
TRIM37 PNKP
CASP9 PRKCZ
PRMT5 SMARCB1
PTN BMI1
CUL4A GRWD1
MAP2K7 SMARCA2
GTF2F2 MEF2C
PRKRA DICER1
RPA1 ORC2
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FH GRB2
DYNLRB1 MPP6
NONO PSPC1
ECM1 RERE
CSN2 PACSIN1
CTNNB1 FHL2
UBE2D1 RNF7
SF3B1 RBM17
TP73 SMAP2
RPS27A SMURF2
CDH23 USH1C
MDM2 NUCKS1
TFE3 CUL2
INO80E UCHL5
SQSTM1 OSBPL8

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COIL KLHL8
DLGAP1 MYO5A
UBE2D2 TRIM5
CDH1 MDM2
EPB41 MTPN
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GAPDH PDIA2
HOXB2 EP300
RBFOX2 ESR2
MED12 MED8
MYC TAF1B
PDHX EP300
UBE2E1 DTX3L
SART1 RNPS1
CDKN1B RPS27A
AGTRAP PITPNC1
TP53 TAF1B
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NR1I2 POU1F1
GAPDH TRAF1
E2F1 PA2G4
ITGA6 ITGB7
MYBL2 TRIM15
HEATR2 FEZ1
NUP62 GORASP2
FAS FADD
PIH1D1 TSC22D4
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EGFR LRIG1
AKAP5 KCNJ2
SMARCB1 SMARCC2
PGK1 PCNA
SGSM2 FNBP1L
CLK3 C1ORF63
HARS RPL5
AIRE PIK3R1
KDR SHB
SGK1 IKBKG

SNCA SPTBN1
XRCC5 BARD1
TPM3 SMAD3
HDAC1 TXNIP
YWHAG EFTUD2
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POMC MC3R
PSMB5 PINX1
PGRMC1 MCC
TERT PINX1
CCNE1 SKP2
IKBKE PRPF19
F13A1 FGA
VIM NFKB1
GFI1B RNF31
LYN DOK1
ARRB2 HIPK3
COIL KLHDC5
LAPTM5 TOM1L2
CLU MDM2
PDLIM5 TRIM39
ELN FKBP10
GRM3 LGALS12
DAND5 PML
ARGLU1 IKBKG
USP30 MPND
KIAA1967 TAB2
A2M TGFBI
RAD18 SRRM2
SMAD1 ZNF510
ITGB2 PRTN3
FANCA DUS4L
BAG6 TSC22D1
POLN FANCD2
THBS1 IGFBP5
C5AR1 WAS
IKBKB NR2C2
RPS6KA5 STAT1
RELA USP31
PIM1 BMX

STAM2 UBE2D3
EGFR PIK3R3
NFKB1 HNRNPF
SUPT7LTAF8
GNAI1 RASD1
RANGAP1 PMS1
BCR HNF1A
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MAP3K12 SH3RF1
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SOX6 CTBP2
CALM2 TRPV1
ILK UNC45A
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ADRB1 GRB2
RBM15B KDM5B
TGFB1 TTN
GABARAPL2 PTPLAD1
TFE3 SMAD4
MMP2 CXCL12
HSPA1B RIPK3
PEX14 SMARCC2
MTSS1 RECQL5
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RFC5 RPAP3
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ANKRA2 HDAC5
MYB CEBPB
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RPH3AL RIMS2

DVL3 LNX1
F12 KLKB1
RELA ITGB3BP
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UBE2I MUL1
CDK1 GFAP
ACTC1 PLEC
FOXO3 FOXM1
HUNK RABEP1
IL16 EFEMP2
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IMMT ARMCX3
TFCP2 UBP1
EIF4A3 YWHAG
UBE2C POLM
VAV1 MERTK
SOCS1 TEK
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ERBB2 FGR
SRF NKX3-1
PML SMAD2
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SOS1 SH3KBP1
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CBFA2T3 RUNX1
BCAR3 RCC1
SUMO2 FAM176A
ZDHHC17 WNK1
EEF1D ARHGAP21
IFNAR2STAT2
ANK3 TIAM1
EPB41L3 MBIP
REL TUBA3C
PDIA6 PRKAB1
CDC20 ANAPC11
MYH9 EMD
DMD SNTB1
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EIF1B SRP14
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ARHGEF6 SMAD1
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CRYBB1 ABCC8
NCK2 PKN2
TPM3 FTSJ1
HNRNPU PIN1
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RHOA DAAM1
JAK2 FYN
SRRM1 PNN
EIF1B AK2
MED30 MED23
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TNFRSF10B RIPK1
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XPA GTF2E2
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FLNB PLCG1
NPPA ESR1
JAK2 INSR
CHRAC1 BAZ1A
UBE2D1 TRAF6
RAB5A VPS45
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KPNB1 AHCTF1
FSCN1 DNAJB9

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AIP TOMM20
MED14 ACTN2
CTNNB1 AHCTF1
SFN RASSF1
ENO2 SIGIRR
RPS6KA2 SHANK1
PARD3 F11R
TAP1 SEC14L3
CUL4A DCAF15
CCT3 MOBKL3
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CEACAM1 PTPN6
HNF1A HNF1B
SP100 UBE2I
POLB TAF1D
BAK1 BCL2L10
DENR MCTS1
CEACAM1 SHC1
ARRB2 SMARCC2
YWHAG RAB11FIP2
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MCM3 MCM10
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TCEA1 GTF2E1
POU3F3CAV1
SCAF1 UBQLN4
SGK1 FANCA
RFX2 RFX6
TPT1 IKBKG
RPS27A SMURF1
UBE2I TRIM63
CLN3 SFXN4
GRM7 TUBA1A
SATB1 HDAC2

RIBC2 RAD54B
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KRAS RAF1
RASA1 PIK3R1
SMAD2 CISH
ABL1 YWHAE
ITGB6 FLNA
GPN1 POLR3E
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EIF4G3 EIF4A2
LRP8 SCN3A
BCL3 NFKB2
TSC22D1 UCK2
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RAF1 YWHAG
CHD3 MBD3L1
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SLPI GRN
RANBP2 SUMO1
BCR CLTC
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HSPA1B GPRIN1
KDM4BMED10
DNMT1 CBX5
GDF9 TK2
PRPF3 USP4
PIAS1 SP3
NCOR1 TRIM28
AMPH DNM2
COL6A1 LGALS3BP
CNOT10 USP22
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HSPA1B TRAF6
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CHGB MGLL
SH2D3C SNCAIP
CCNC ESR2
PRRC2A MAD2L2

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PLD2 ALDOC
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CD81 MYOC
KPNA6 BRCA1
SAP30 HDAC1
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EXTL3 FYN
SRI RYR2
RXRA KIF1A
UBE2D3 ZNRF1
ZNF44 CSNK2B
HLA-C TRIM28
FAM40A TRAF3IP3
CDK5 RNF32
FDFT1 ARL6IP1
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ZFAND5 UBC
CYB5A POR
DDX5 SMAD3
SMAD4 STK11IP
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MAPK1 CENPE
DEDD CASP8
IRS1 YWHAH
PSMB1 IKBKE
FBL PASK
CCR1 CCL26
SPTAN1 TAB2
BRCA1 CLSPN
CSNK2A2 CAV1
BCL7B RUVBL2
CASK TBR1
CFTR PRKACA
FANCMDEC1
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SSR4 MAP3K1
SRSF5 MAPK14

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CCND2 CDKN1A
HCK CD2AP
LZTR1 FANK1
ETFPA PRKAB1
GAP43 TSC2
USP32 FARSA
NGFR TCF19
MEAF6 ING3
CAPZB RIPK3
NCOR1 GPS2
COMMD2 COMMD1
NUPR1 MYOD1
FFAR2 GNAO1
CS RAE1
GPN1 POLR3B
PSMA7 EPB41
ARHGAP1 ITPR1
BAG6 RAB8A
IRAK1 PELI2
ACTN1 PDLIM5
PLAUR SURF2
AP2B1 THAP1
RPL31 EWSR1
PDIA6 TRAF6
GIPC1 ZFPM1
BUB1 RAE1
ABL1 CRK
SKI EYA3
ABL1 CRKL
IL6R STAT3
RUVBL2 UCHL5
SMAD2 BAZ1A
CUL4A DTL
UBE2WRNF185
LPL LRP1
PHYH FKBP4

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ORC1 TSG101
CAPN2 PTPRN
ELANE SERPINB1
IKBKG ODAM
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KLF4 KAT5
KRT15 CCDC120
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DAND5 CCNA1
RFC4 USP20
TBX3 HDAC2
NR3C1 POU2F2
MTA2 CHD4
TNFRSF1B HSPA1B
GFI1B ANKS3
ETS1 ZFR
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CUL1 DCUN1D1
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EWSR1 PHB2
HTT FICD
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OSM IL6ST
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CTNNB1 PLK1
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TRA2B YWHAZ
RNPS1 PGAM5
FOXC1 PITX2
HLA-B IGF2BP1
PFDN1 HAP1
DHX9 PRPF8
UBE2W TOPORS
BUB1B MAD2L1
DDIT3 TRIB3
PRPF31 USP15
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SPAG9 PLK1
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PLSCR1 CDC42EP1
GRB2 LAT2
CBR3 RAB35
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HUS1 RAD9B
H3F3B THRAP3
BIRC5 HSP90AA1
GDF5 BMPR2
TP53 UBE2K
FYN RAPGEF1
SRC DLGAP2
UBE2E1 UBASH3B
YWHAZ TPD52L1
ULK2 LUC7L2

MYC SMC3
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SNRPE GEMIN7
ITGA5 L1CAM
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PGR POU2F1
EED SETD8
AKT1 TOPBP1
PRRC2B RERE
CENPB CENPA
ABL1 TOP1
CXCL10 DPP4
DNAJA1 RELA
EPHB6 GRB2
NPM1 BRCA1
APLP1 CNTN3
FGF7 HSPG2
MAP3K8 MAP3K14
SRC AFAP1
FLNA SMAD3
NEDD9 ZYX
KRT15 TUBGCP4
ARMC6 PHLDA3
USP2 CCDC85B
MRPL13 TRAF6
PLCG1 EPHB2
IKBKE MYO6
CSK PTK2
HBXIP EEF1A1
NCK1 EPHB2
VASN NCSTN
HTT UTP14A
FANCA SMARCA4
PPP5C USP49
YWHAZ KSR1
DRD4 KCNJ9
NOTCH3 JAG2
KPNB1 CDT1
TRIB3 RBM4

GTF2F2 POLR2H
PLCG1 GRIN2B
CDH24 PPP1R16A
HSPA4 HDAC1
EZR SCYL3
GPN1 MED17
ARF1P1 CYTH2
COPZ1 COPG2
PTEN UBE2I
FOXO1 SMAD4
AR AES
SMARCA4 BCL7C
PPP1R15A BCAR1
KLRC4 TYROBP
EP300 RUNX2
MCM3 MCM2
POLR1C POLR1A
LDB2 SSBP2
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EIF1B PLS3
ARHGEF7 SHANK1
NECAP2 TRAF2
NRIP1 NR1H3
MAGED1 COPG
ACTC1 TRIM63
KCNN4 CALM2
SGCG SGCB
IL1B CASP1
RNF40 CENPO
SMARCC1 ITCH
GRID2 GOPC
ESR1 TCF20
SSX3 PCBD2
RHOA SH3BP1
DDB1 USP40
POLR2C CTDP1
MAP3K7 MAPK8
DERL1 DERL2
MAP3K7 MAP2K4
ATP5J NFKB1

TP53 WWOX
CDKN1B UBE2D2
EPS8 MRPL20
MYO7A MYRIP
SOX6 CENPK
SMAD9 HUWE1
RGS14 GNAI3
RIT1 RGL1
YWHAG TBC1D1
DAND5 NANOS3
UBTF RBL2
HADHBNFKB2
EGFR PTPRC
PLXNB2 RND1
AP2B1 NECAP2
NFKB1 RSF1
RPL31 EWSR1
PTPRC MAPK3
RAD23A IFIT5
STXBP3 SNRPB
TP53 CARM1
VAV1 RACGAP1
DDX3Y SHBG
NAA38 THUMPD3
EWSR1 ZNF184
RIPK2 HSPA2
HLA-B TTLL12
EGFR MET
PLCG1 LTK
NFKB2 TUBA3C
SLC9A3R2 SGK3
XPO1 AGFG1
CHGB TWF2
SPI1 NONO
B4GALT1 TUBA4A
SRGAP2 FASLG
RFC4 FAN1
PTPRG CTNNB1
PML MAPK11
PFDN1 SKP2

PPP4C DHX38
MYBL2 NLK
CUL1 GCM1
BMPR1B VEPH1
FES JAK3
CDKN1A ITGB1BP3
TUBB NCALD
MYB EP300
PLCG1 AEBP1
PLCG1 SHC1
PRPF6 RAF1
NFKB1 SIN3A
GAPDH PAK2
CDK14 SMURF1
MLX SAP30BP
RELA MTDH
PLIN3 TBPL1
RGS20 SET
TIPRL PPP2CB
RMND5B UBE2D4
ACTN4 LRRC7
PCNA RAD9A
ERBB3 GRB7
SUMO3 RCOR1
CTBP1 HDAC9
LIMS1 RBBP8
IL7R JAK1
XRCC1 PARP2
NANOS3 GCDH
RAD23A OTUD1
EIF2B5 EIF2B4
TCF4 DAXX
HIST1H4I SET
PDE9A TRIM32
PTPRD PPFIA1
CRK TRIM39
HDAC2 INGX
MBP DYRK1B
RPA2 HERPUD1
TAF1 HSF1

RPAP2 ARMCX3
RNASEH2A MAPK9
RNASEH2A MAPK8
PTN MAD2L1BP
FYN SKAP1
KRT18 TUBGCP4
SHPRH USP49
TRAF3IP2 TRAF2
CUTC SPG21
SOD2 P4HB
MYL2 MYOC
SMARCD1 BAZ1B
CRK EPHB3
SRF CSNK2A1
STX3 VAMP3
SRC RXRA
FYN SHROOM2
SGK1 HYOU1
IRS4 MTNR1A
EIF2S1 CASP6
SMAD4 EIF2AK4
SNX2 LEPR
XRCC1 POLL
SGK1 GDI2
HDAC3 NR2E3
ATXN1 PIM2
RAG2 SKP2
APBB1 VASP
STX3 STXBP2
TOMM22 PHLDA3
IL7R IL2RG
NR3C1 HMGB1
GRAP2 RBPMS
NOTCH2 DTX1
TP73 CDT1
RIPK2 TRAF6
RPL15 COPS6
RB1 CUX1
PRNP SCNM1
CS TAB2

SHC1 RAPGEF1
SPTAN1 EXOC1
RB1 RUNX2
DCXR GSTK1
TRIM37MAP2K5
SLC6A2STX1A
UNC119 ARL15
MED28 SNX9
S100B TNIP1
NFKB2 TUBA1A
HNRNPF YWHAZ
MED18 MED28
LYN RPS27A
SFRS18 PNN
SKP1 FBXW8
GNAI1 GPSM3
RUVBL2 NOP58
EGFR PRCC
PPP1CBRYR2
GEMIN4 NFKBIL1
PITX1 SMAD3
FBN2 MFAP5
TIMM23 TIMM17A
TADA3 MAGEH1
TCERG1 SF3B2
APC MYH11
IKBKE METTL11A
CSTA USP53
ADIPOR1 APPL1
JAK2 STAT2
CSNK1G2 PPP1R14A
HPRT1 WDYHV1
FTH1 CD99
DDB1 BRWD1
PLCG1 ID4
ILK HEATR1
PTPRS EIF4A2
SATB1 HDAC1
NFKBIE C1QBP
FOS RBM6

ATN1 TLE1
MPG RPS29
CTR9 CNTNAP2
DSG1 USP53
EPRS TFE3
NF1 SUMO1
BCR RASA1
SERPINB9 MED31
MDM2 ZBTB1
ANXA6 MLH1
TFE3 EIF3I
LILRA3 EWSR1
AR IL6ST
CRK DNM2
CLPX CIAO1
MAGI3 USP43
EGFR ROS1
RAD51C CACNA2D3
FASLG MPP4
ADAM15 SH3RF1
BCAR1 RAPGEF1
GPN1 PIH1D1
GNB1 PDCL
POLB PRKCA
CTCF HSPB9
ZHX1 ZHX2
FYN TUBA3C
KDM1AHMG20B
CLINT1 GABARAPL1
IER3 TNFSF10
MAML2 CREBBP
NCAM2PRNP
RNF38 UBE2D4
TP53 AGBL2
INSM1 MPP3
LEF1 RUVBL1
WDR91 STX8
TIMM44 ARAF
PLK1 MLF1IP
CKS2 UNC119

HLA-C TBCA
EXOC5 EXOC3
EEF1D CSNK2A1
FCER2 CR2
CCT8 PPP2CA
CCT4 GPN1
CRK CELSR2
CUBN RRP1
NUTF2 KPNB1
SOCS1 ERBB2
DYNLL1 GPHN
BCL10 UBE2V2
XRCC6 NDRG1
DPEP3 MECOM
TNFRSF14 CNIH4
GATA1 TAL1
CLNS1A EPB41L3
DPPA4 CRK
AGR2 CCDC90B
KHDRBS1 SMAD2
HLA-B RDX
HUS1 HUS1B
CCL8 DARC
PCP2 HSPG2
RET PTK2
HTR1E PSMC4
NUAK1 USP9X
CCND3 RBL2
COPS5 BTBD2
SNRPD3 SRRM2
RORC NCOA6
DDX5 CREBBP
LIMK1 ROCK1
MAPK3 ARRB1
CCDC85B GF11B
LBR PHLDA3
FFAR1 GNAI1
STAT1 PTK2
TOP2A CDT1
CREB1 CEBPB

RALA CSDA
RELA BRMS1
ABL1 MUC1
EWSR1 WWP1
DYNLL1 PFKP
PPIE XAB2
APP FBLN1
MAPK1 SOS1
HIST1H1B CDK2
VHL CCNA1
NPM1 GADD45A
ITGB2 MAPK8IP1
ANK3 FADD
ENO2 ANXA11
SHC3 ARHGAP32
KLHDC5 SERTAD1
UCHL1 CCDC14
CANX NAF1
CDC42 ARHGEF25
LCK HSP90AA1
DEDD ABCA9
RECQL5 ALDH7A1
CDC42 ARHGAP32
PRPF40A CCT7
TNFRSF14 CCDC59
SP100 SUMO1
PPP2R5E BHLHB9
IRF1 CREBBP
YWHAZ FHOD1
PRKCZ F11R
RANBP2 UBE2I
NGFR PTPN13
DNM2 DYNLL1
EIF3H TNIK
SIRT1 BHLHE41
GCG CPE
NCR1 CD59
RPN1 SIGIRR
CDC73 WWC1
CDC25C YWHAZ

ITGAV MMP14
BTF3P11 THBS1
NGFR TRAF2
CDC25A FBXW11
CTCFL PRMT7
PPP2CADVL3
WISP1 BGN
GNAI2 ADORA1
HGS PIK3R1
HSPB1 SRRM2
YWHAB EFTUD2
AP1B1 ATR
CENPF ALK
QARS PHLDA3
WDR33 ZHX1
FYN RIMS2
EEF2K MAPKAPK3
IKBKB NCOA3
SOX2 NR5A1
P4HB TAP1
PLEK TGFBR1
RIPK2 RPL36
MAP1B RASSF1
ATP5J2 CCDC137
SMAD9 TMEM57
PPARG DNTTIP2
ETFB IKBKE
UBE2I LNX2
ATXN7 PSMD7
CCT8 ACTB
ID3 ELSPBP1
FYN DNM3
AKT1 BRCA1
PSMC3 PSMC3IP
SMAD1 INGX
SNRNP70 SF3A2
LCK ESR2
SERPINB9 CCDC90B
VHL VPS35
USO1 EEA1

FOXA3 ALX4
EWSR1 NBPF3
P4HB YWHAG
MPDZ NR4A1
ADAM15 SH3PXD2A
PLD2 MTOR
BUB1B ZWINT
GRIN2B MIB2
SF3B4 SS18L1
RNF8 TP53BP1
SFN ZNF638
EZR PRX
UBTF CREBBP
TNFRSF1B POTEKP
HLA-B RCC1
PSMD11 SUMO2
RFC1 MYOC
MAPK1 PPARA
POLR2E USP11
HLA-B CAPRIN1
CFTR SLC4A7
CENPA PHIP
ORC1 CDC6
RAF1 HSPA4
PPP4C MAP4K1
CD247 PI4K2B
IL8 SDC1
SFPQ NR4A2
HSP90AB1 ACTN1
HNF4A PCBD1
PTP4A3 NCAPG
PIK3C2B NCK1
ACACB HLCS
TRIP10 WBP11
SMAD7 YAP1
EIF1B EIF2S3
PLCG1 TRPC3
CDKN1C SKP2
NR3C1 UBE3A
UBE2D1 TRIM17

EEF1A1 BBS4
LAMB1 GF11B
IPO7 USP49
PFN2 DLST
JUND YY1
TCF4 RUNX1T1
EFEMP2 COL8A1
CCBP2 CCL8
IL25 IL17RB
GEM PDLIM7
NXF3 NXT1
CHAF1A DBF4
HOXC11 CD2AP
PPP1R15A CUEDC2
PSME3 KIAA1267
USP4 NOLC1
CAV3 GNAS
TSR1 PRKAB1
UBE2N RC3H2
MBP TRAF6
MYH11 DAXX
UBE2U RNF150
USP12 USP46
ACTN2 DLG1
SPI1 MUM1
PIP5K1C AP2B1
SMARCA4 CDX2
STAT1 NMI
DDB1 PHIP
LNX1 IGSF5
SATB1 EP300
CST6 CTSH
NOL3 NIF3L1
RPA1 SELENBP1
PTP4A3 MSH2
DDX5 ESR2
RAF1 GNB2
C8ORF33 HAP1
HAP1 BARD1
MAPK1 MCL1

WDR82 CXXC1
SNRNP70 SRSF1
SF3B1 WWOX
GMFG FBXL15
PCBD2 HES4
SMAD4 UBE2I
PIGA PIGP
MAL KDM3A
EZR TBC1D10A
CCL21 VCAN
APC2 ACTA1
TEC IKBKG
CRK PCDHA10
SUV39H1 PRDM1
UBE2K BIRC7
JAK1 PLAU8
JAK2 NFKBIA
FURIN GORASP2
AGT EWSR1
DDA1 NANS
CANX HTR3A
GJA1 CSK
MYC MAGED2
CIAO1 GNL3
MYC MYBBP1A
APLP1 MPHOSPH6
SYNCRIP HABP4
CDC42 ARHGAP27
ELK4 ID3
DLG4 MAP1A
TBP EMID2
EPHA1 ALK
MTNR1B PDIA6
DSTN TESK2
TXNL4A RHEBL1
CDC42 CD163
PDE6G DNM2
DNAJB6 TSC22D1
RALBP1 GTF3A
SUMO1 SENP2

FXR2 MEAF6
CTGF LRP1
ERBB2 SLA
CNBP CUX1
BCL2 PMAIP1
EGFR TMCO3
LAP3 TSG101
HSPA4 DNAJC3
BUB3 SF3A2
SLC9A3R2 LPAR1
KRT1 PI3
IKBKE TMED9
MAP4K4 CASP8
ZNF496 SSX3
MAP3K7 DDX5
EPRS MAP3K14
SIN3B SAP30
UBE2D3 CADPS2
HGS CEP55
PTPN6 SSTR2
HLA-B ARL1
HNRNPF SUMO1
KLC1 KIF5A
TNFSF12 AGGF1
SOAT1 MPG
MED7 FXR2
GTF2A1 DOCK7
SELENBP1 USP33
MYC MLH1
BIRC5 CDK2
VAV1 PRKCQ
KRT15 SMARCD1
APLP1 TSC22D1
TUBA1A DNMBP
EDN1 KEL
STAT1 TRIM28
ADAM15 ARHGEF6
COQ9 ANO8
NR2F6 CBX1
HGS NEDD8

CCNE1 PIN1
PLCG1 DGKZ
CDC42 C14ORF1
CHD3 SIRT6
CTBP1 RCOR1
ARNT EPAS1
CDKN2A DAXX
GRIN2B CAMK2D
GRIN2B CAMK2B
HCK PLCG1
GRIN2B CAMK2G
EGFR LRSAM1
PLS3 ATXN2
MGMT PRKACA
RASGRP2 FAM118B
USP13 SMC3
CDKN2A KIAA1984
LIMK1 NRG1
THRB FOXO1
CSF2 CSF3R
NGFR TRAF6
RPAP2 PRPF31
PLCG1 GRAP
CCKAR PPP1R9B
ESR1 SUMO1
EMD CTNNBIP1
GABBR2 SH3GL3
TNFRSF10C FAM101B
CFTR PRKCA
MAGEC1 H2AFZ
PPFIA1 GIT1
PTBP1 FUS
PITX2 HERC5
CCNA2 HERC5
UBE2D1 RNF114
RORA NCOA2
CUL4A DDIT4
TEX11 COL20A1
CCNH MTA1
IGHM PTK2

FAM40A CTTNBP2NL
TNFRSF1B CSNK1A1
FOXG1 SMAD1
WWOX CPSF3
FOXG1 SMAD2
ESR1 MED13
ZNF638 KRTAP4-12
GNB2L1 COPS5
NR2F6 NR2F2
CACNA1A GNB1
CELF3 SOBP
USP1 ATAD5
YWHAG PNN
COPS5 CARD11
MYH9 IKBKG
DMAP1 ING3
SUPT5H DCAF6
HNF4A MED17
UTRN MARCH5
ATF3 NUF2
PGR PRMT2
HCLS1 IKBKG
CCNA2 CDT1
RFC4 RUVBL2
PPP3R1 CABP2
CNTFR APPBP2
HERPUD1 UBQLN2
ANXA2 TNIK
NUP160NUP43
RHOA RHOH
NR1I2 PPARGC1A
VCAN PLA2G2A
HSPA9 YWHAZ
ORC3 MAP4K1
FOS CYP27B1
PPP1R9B DAXX
PSG3 ATF7IP
UBE2D2 RNF4
DLG3 EXOC4
SMAD2 LHX9

POP7 HSPB1
RPS6KB1 AKT1
SNX3 CRK
YY1 SMAD1
NCK1 PTPN4
RPA1 MCM4
YY1 SMAD2
TP53 BRE
CASP14CASP4
HDAC4 RUVBL2
PLG PAPP
RER1 HAP1
CREB1 HIST1H3J
CEBPB SPI1
SMAD2 PPAN
CHD4 BCL11A
DAPK1 IKBKG
NDUFB8 PIM2
TFE3 TRIM28
KIT RASA1
PCNA CHTF8
AMH PCSK5
PHF2 RBBP7
ESR1 GNAI1
MTOR RAP1A
NRIP1 NR5A1
NFKB1 KPNA1
SYNJ2 SFN
GRK6 LTB4R
MYH9 MYH10
PIK3R2 TGFBR2
RFXANK PHLDA3
PPP1R14A CSNK1G3
CHEK2 ATM
FUS SARNP
CAPNS1 RAB1A
ETS1 ZMAT2
RFC1 CHTF18
MYC SMAD3
PPP1R2 PPP1R9B

UBE2I RUVBL1
ARPC2 ARPC4
AURKAPLK1
HLA-DQA1 APLP1
CRMP1 TRIP13
CCND1 MCM10
BMX GAB1
CD19 BTK
TRIM37TRAF1
YWHAZ SMC5
IL1R1 PIK3R1
ARAF MLH1
CUL3 KLHL20
LONP1 LOXL4
FBL ARRB2
PCNA CDC6
RUVBL2 PRKAB1
NAA38 TALDO1
NFKB1 HNRNPM
SEMA3F UBA1
RAD23A EWSR1
MLL SMARCB1
SMAD2 ANP32E
PDIA3 EFEMP1
KIF20A RAB6A
YWHAZ SAMD4B
STK25 PPP2CA
EIF4EBP1 RHEBL1
PAK1 MYNN
HLA-B TXNDC17
GRB7 MAP3K14
CCT6A TBK1
GRIK1 LGALS12
RIPK1 HSPA1B
FGF1 CSNK2A1
RELB HSPA1B
RPS29 GRB2
PRKCA ADD3
NFYC UBQLN1
PIK3C2A ANKFY1

KBTBD10 SLC2A4
NPHS1 TJP1
CAPNS1 GNB2
SNRNP200 YWHAB
ACVR1B ACVR1
PSMD11 SMAD2
PSMD11 SMAD1
RPA1 MCM7
EGFR APBB2
PPP4C PPP2R5D
LPA CELA1
CTLA4 PTPN11
PHB SCN8A
PRKCG STXBP1
HCLS1 CASP3
RBL2 LIN37
HAP1 DDX49
MAP4K1 DAPPI
RAC3 NRBP1
RPS6KA1 ASCC2
PRNP ADAP2
TP53 RPA1
PCNA BARD1
TP53 APEX1
HIST1H4I BRDT
EPB41L2 FKBP2
RGS12 NPY2R
CNBP HNRNPAB
HCK SH3BP1
SF3B1 ATG12
CAV3 JPH2
VPS28 ASF1A
RAD23A XPC
NCOR1 ACTN2
STAG1 TINF2
GALR2 GNAQ
APLP1 PHF10
TP53 APTX
GSR PJA1
CREB1 PIAS3

INSR VAV1
YY1 RUVBL2
SMARCA2 SMARCD3
PARK2 HEXDC
ATP1A1 GTF2F2
DNM1 CLINT1
MAP2 PRKACA
RFC1 CASP3
APC ODF2
SLC25A4 NFKBIA
SRC ARHGAP32
APBB1 CHERP
CENPB ETS1
PCNA RBBP8
VIM SRRM2
TNFSF9TRAF1
TPR NUP153
CCT3 SH3BP4
PHGDHCHMP2B
TOP3B ZFPM1
DHPS EIF5A
DLGAP1 SHANK1
EIF4B SFN
MAL SUPT16H
IKBKB IKBKG
CCBP2 CCL7
ZNF263 EFEMP2
CFLAR MAP3K14
FOXO1 DYRK1A
RAC1 EPS15L1
CDH5 KDR
CDC42 KTN1
SUB1 PINX1
YWHAZ IKBKG
SMAD1 WWP1
ARHGAP1 TAX1BP1
APC NUP214
TRIM23FXR2
UQCRC1 SRPRB
AIRE PABPC1

BMPR2 FHL2
RPLP2 YWHAZ
CRKL BLNK
PPP2CAISYNA1
CDK5RAP2 MAGEH1
RZR2 WNK1
UBA1 GAN
SGK1 PDPK1
TOP2A XRCC5
MET PTPRJ
TOM1L1 MAP4K4
SUV39H1 SMAD1
MCC PAFAH1B2
YY1 RUVBL1
ARL4D UBR1
PTN LAMA4
CRK PCDHA2
CSNK2A2 SMURF1
UPF3B UPF2
TAP1 COPG
LGALS8 ITGB1
NGFR SALL2
NRP2 SEMA3F
CRK PCDHA5
UBC XIAP
CRK PCDHA3
CRK PCDHA9
TP53 DHCR24
UBE2D3 MARCH3
AP2S1 GRB2
SSB NCL
TP73 HIPK2
FOS RPS11
NACA FUNDC2
APBA3 PSEN2
USP53 C7ORF36
SERPINA3 KLK3
AIRE CRK
TP53 ZMYND11
IRS4 PIK3R1

HNRNPM PHLDA3
NFYB ELF1
YWHAZ MAP3K4
SFPQ NONO
NLRP4 NLRC4
PIWIL4 DICER1
CRKL DOK1
RB1 CEBPD
PPFIA2 PTPRD
INSR ADRB2
KLHL12 VTA1
SNX2 SNX4
NUAK1 CASP6
ESR1 BAZ1B
TP73 DPH1
PPFIA2 PTPRG
OTUD7B ACAD9
FYN RRAS
EXOC3 BIRC6
TXN FBXO11
ADCYAP1 CASP2
DDX5 HNRNPH1
CDH1 CDH3
HDAC2 FOXP3
CTNNB1 TGFBR2
KRT15 CCDC101
ARG1 USP53
CHEK2 PPP2R5C
CDK1 BRCA2
MTA2 HDAC2
PPIH USP4
ARHGAP1 SMARCD3
DES SPTAN1
SMARCB1 CDX2
PRKCG GJA3
CALM2 JOSD1
NUDT3 RPL8
CALCOCO2 ZNF638
EIF4G3 CAMK1
TP53BP2 UTP14A

PTN PTPRZ1
CDK5R1 TTBK1
H2AFZ CHD1L
TNFRSF1B SSR4
PLCG1 SPEN
SEPP1 PTK2
GAPDHHSP90AB1
INS INSR
CSF2 IL3RA
IKBKB MAP3K3
RAB6A GOLGA4
CHEK1 TLK1
SREBF1FBXW7
BMX PTK2
CALM2IQCB1
CD8A LCK
FSHR RPS27A
PPP2CAPPP2R5D
HBXIP GPRASP1
TP73 TP63
HGS SMAD2
TLX1 PPP2CB
SRP54 RNPS1
RPA1 RPA4
CREB1 PRKACA
FSHR RPS27A
HNRNPA1 SF3A2
HNRNPA1 SAFB
HSPD1 RPAP1
KRT5 DSPP
CTNNA1 PSEN1
PRKCZ TRAF6
JAK2 UBASH3B
YES1 ZNF512B
KDR PTPN11
TNFRSF1B FANCD2
SKA1 SKA2
GMNN CDKN1A
TRAPPC3 TRAPPC6B
PFDN6 PRPF4

NFYC ZDHHC17
ATXN1 MYEF2
COLEC11 SRSF3
MBD4 DNMT3B
TOP1 SFPQ
KCNH4 UBE2I
TP73 NFYB
KRT33A CDC20
CASP1 CARD8
PPARA NCOR2
CCNK TSC22D4
RAD23A SQSTM1
PRNP MAG
HDAC2 SAP130
SFN RND3
RARA SAP130
INPPL1 BCAR1
ACVR1 TTC17
MDM2 MRPS33
AGT EWSR1
SGK1 RPS27A
ARRB2 PRPF4B
RHOQ RAPGEF1
NR5A2 NCOA3
IFIT5 ECSIT
MDM2 BTRC
FOXH1 GRB2
KLK10 INSL6
EEF2K MAPK14
HTT SIN3A
SGK1 MYH1
AKT2 MTCP1
PMS1 RNF20
SMAD2 IL1RAP
NTRK1 PTPRC
TP53 RBBP5
CHD3 DPEP2
SKIL PSMC2
AKT2 TCL1A
RPA1 CHAF1A

CCDC33 USHBP1
H3F3B SUPT16H
PTPN21 AKAP1
HDAC3 EMD
NR3C1 ATP1B1
ERBB2 MAPK8IP2
XPOT TNFRSF1B
TP53 KIAA1267
CUL4A DCAF16
LCK PTPRF
HDAC3 BUB1B
CEP110 CETN2
CCL2 DARC
DDX5 DDX17
CIAO1 RPAP1
IRF1 KAT2A
IRF1 KAT2B
HNRNPR HNRNPA1
SS18 CNOT2
VAV2 BOD1L
YWHAZ CLIC4
MITF PIAS2
MITF PIAS1
DAND5 HTT
FGF2 FGFBP1
SMAD4 ODZ3
PFAS TNFRSF10D
DNMT1 HELLS
DAND5 SREBF1
SRC STAP2
SYT7 STX3
SPOP PDX1
STK4 RASSF6
ATXN7 PSMD2
INO80 UCHL5
ARPC3 ARPC4
POLL MUTYH
NFKBIB RASAL2
NOS2 RAC1
RORA MED1

HNRNPA1 LARP7
POMC MC2R
LNX1 CUTC
STAT1 FADD
TRIM24UBE2U
MLLT4 PVRL4
PRKAR2A AKAP12
PPID SMURF2
CRK MAP4K5
APIG1 SPTB
YWHAB KCNK9
MARCKS CNOT8
RDBP VAMP3
EGFR CLTCL1
STAT1 KPNA1
PCNA CHTF18
RBBP6 ACOT13
NOTCH1 EP300
NFYB GRB2
AQP1 CCDC85B
PCNA APEX2
ADCY6 ATXN1
PABPC1 UPF1
NEUROD1 HAP1
HSPB1 MAPKAPK5
RAB11A WDR44
TRIP10 DAAM1
CDK2 MCM4
ITGB1 PLAUR
NECAB2 TEX11
EGFR CNTN2
WT1 PAX2
ACTB CPNE4
NAA38 RSL24D1
GSK3B SGK3
FDFT1 RUVBL2
PPP5C CHORDC1
PRMT5 TYK2
GDF11 ACVR2B
HDAC3 NCOR2

YWHAE NGFRAP1
MRPS34 DDX56
VAV1 BLNK
UBE2L3 RNF125
OPRD1 GPRASP1
IRS1 CRK
UBC MYC
PSMC2 PSMC5
CHD3 TNFRSF14
SNX3 STX11
USP11 NET1
CLU LEPR
CRK GRB2
SEC24DLMO4
CDC34 EIF3K
EIF1B GDI2
PPARG SMARCA4
FBL C1QBP
NPR1 NCSTN
IKBKB AURKA
CSDA MAPK1
TRIP6 FAM124B
CPLX1 STX1A
TRIM37TRAF3
CD22 PTPN6
SKI SMAD5
PPP2CBLCMT1
ALPP GPLD1
CD22 SHC1
TAF6 TAF5
TAF6 TAF13
POLR1C WRN
TAF6 TAF11
TAF6 TAF7
SMARCA4 MPHOSPH6
ZRANB2 SRSF2
HERC2 ZRANB1
HTT PACSIN1
MAGEA11 MLF1
GDI1 PSEN1

U2AF2 RBM17
COPA SACM1L
SNAI1 EZH2
S100B AGER
TFRC ACAP1
PSMD2 ATG4C
TUBB4 TAB2
RUVBL2 TAF9
LRMP WNK1
NR4A1 HSPH1
TAF10 TAF9
FDFT1 RUVBL1
SRC RPL13
CUL2 KLHDC10
ACAN MMP8
PLCG1 PICALM
CRKL NOTCH2
KCNJ6 KCNJ3
WIPF1 FYN
C3 CPN1
UBC NFATC4
TNXB VEGFB
UBOX5 UBE2L3
RHOA SMAD2
LRRN1 SIN3A
GLI3 MED12
ATN1 RBM10
PIK3R1 SLC23A1
CSNK2A2 SNCA
SRRM1 BCLAF1
AHCY YWHAZ
LCK PTPN11
SMARCD1 CARM1
PCNA POLQ
BUB1B CDC16
ID3 PAX5
CBX7 USP7
EGFR NRG1
KEAP1 KIAA0564
MSH3 EXO1

RQCD1 RUVBL2
ATN1 LRP2
MGEA5 DHX9
ATP2B4YWHAE
PLCG1 TNK1
RPL7 MAP3K1
DTNB SNTG1
ATXN1 KLHL8
HTT KIAA1377
IMPDH2 PIAS4
SND1 UBA5
AKT1 ESR2
MAGEB2 RPS9
USP45 TMOD3
DPM1 PTP4A3
ATN1 HSPG2
MARCKS PKN1
TP53 C4ORF41
DDB2 CDT1
RNPS1 ZFP91
NRIP1 CTBP1
PLCG1 GAB1
PRKCA ATP2B1
KRT5 PKP2
KIF1B SNTA1
MAGEB2 RPL28
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CTNND1 CTNNB1
IRAK2 SMAD2
BRCA1 MED21
RAE1 DDX24
GTF3A OPTN
PTP4A3 LTN1
GSTP1 MLH1
TWF2 ELOVL1
HNRNPL ILK
ABL1 JAK1
NCOA2 CARM1
MEN1 SMAD3
FLNA PAK1

GLUL CASP8AP2
SOS1 SNX13
SREBF2CASP8AP2
PARK2 RGS3
PARK2 RANBP2
TUBB SUMO2
GNA15 RGS2
MPRIIP PPP1R12C
INSR GRB10
UTS2 UTS2R
CBL ARHGEF7
ITPKB CALM2
PCBP2 RUVBL1
COL4A2 ATF7IP
HDAC4 UBE2I
KEAP1 MAP1LC3B
COPG2 MAGED1
CLCN5 WWP1
PTK2 MAP1A
COPG2 COPG
TNFAIP3 PPP6R3
MYC PLS3
ABL2 RIN1
HNRNPK RBM42
SPI1 DNMT3A
CDC42 PAK2
POLA2 KLF6
MRAS BRAF
PRKCD RASGRP3
PAFAH1B2 PARK2
ESR1 HDAC4
TSC2 RABEP1
PTPRG ALK
C5 C7
INHBA ACVR1
GSK3B FRAT1
GABARAP FNBP1
CHD1 HIST3H3
PSEN1 PLXDC2
HNRNPK DIDO1

HIST1H3J HDAC2
SUMO2 TRAF1
YES1 ITGB4
SKIL SMAD2
NCOR1 RXRA
SKIL SMAD1
ARHGEF15 EPHA4
SOS1 SNX9
MTCP1 EWSR1
TNFRSF10C APOA1
MMP2 EPHB2
NFKB2 RELA
BRCA1 HDAC1
EPB41 HIGD1A
EEF1D IKBKE
GIPC1 RGS19
TUBB YWHAG
SELP AP1M1
UBC CSF3R
HIST1H3J CREBBP
CDC42 PAK1
HIST1H3J MYST3
GNAI2 LHCGR
ZNF24 ZBTB16
STX1A STXBP6
HDAC3 BCL3
PLCG1 AFF2
LPL LUC7L2
UNC119 UBE2I
CALM2 PTH1R
PSMD3 UCHL5
PDPK1 PTPRJ
MAF HOXD12
PCBP2 RUVBL2
LIN7A CASK
EPB41 PIN4
DACT1 LEF1
CTBP1 FOXP1
EWSR1 BLZF1
DTNB PRTFDC1

TNIK PSMD13
UNC13B VAMP2
BRD4 RFC1
BRD4 RFC2
JAK2 PTPN1
PTP4A3 KIAA0776
TOM1L1 PWP2
ITPKA ACTA1
NTN1 ADORA2B
FOS NCOR2
SHOX2 KDM5B
TOP3B GRN
ERBB3 PTK2B
SRC MKI67
RPL37AMAP3K1
KRT20 PPAT
ECSIT AP1M2
CRYBB2 CRYBA4
GLRX ATP7A
HNRNPA1 RIPK3
CRYBB2 CRYBA2
SS18L1 SF3B4
COPA STX8
ETV6 UBE2I
GAPDH TXN
COPS6 COPS7A
WBP4 SF3A3
NUP107NUP37
LSM3 LSM2
LDOC1 MZF1
RNPS1 BCLAF1
NUP107NUP43
WRN WDR48
CUL1 FBXW7
ARF1P1 PIP5K1A
EIF2AK2 JAK1
PTPRG TIE1
BRD4 RFC4
CALM2 MAP3K3
BRCA1 ATR

RNMTL1 PRKAB1
YWHAG ARHGEF16
GREM1 BMP2
ERC2 MYB
XPO4 PHLDA3
FLNA PSEN1
RAB2A ZFYVE20
HDAC4 DNAJB8
ZBTB25MDFI
CTBP1 IKZF4
ATP6V1C1 ARF6
CBLN3 CBLN4
PLIN3 M6PR
STAMBP CTNBL1
PHACTR2 SRC
PRKCI SPATA18
FOS USP16
MYC CDK8
ITGA2 CD9
EP300 GPBP1
DVL2 ARRB2
ATXN7L3 SERTAD1
ADRA2B PPP1R9B
YWHAZ MARK2
LIG1 MRE11A
PSMD11 HAP1
APOE PDCD4
CDC42EP2 CDC42
SHC1 ALDH6A1
GAS7 PACSIN1
IRX5 APLF
VWF ZNF512B
ZBTB8B AP2M1
TOM1L1 CWF19L1
AHCYL2 TRAF6
PDPK1 RALGDS
ITGB1 CD63
MMP16 KISS1
FGFR1 SLA
TNFAIP3 CNKSR2

IFRD2 G3BP1
RPS27AZNF512B
FAM160A2 AKTIP
ARF6 EIF3I
COPS5 C12ORF10
CDC40 SMAD2
USP49 DICER1
SRGAP3 FASLG
NR4A1 KAT2B
FLNB TSHR
TCF4 RPS27A
CTBP1 PNN
CBR1 HLA-B
CASP8 RYBP
MAP1S RASSF1
EXOSC9 EXOSC8
MED28 MED31
CSRP2BP MBIP
MCM6 CDT1
PHYH ABCD3
RB1 STAT3
GATA2 HHEX
TNRC6C EIF2C2
RB1 E2F1
GTF2A1 MKX
FXR1 GIGYF2
LDLR APOB
TLE4 OTX1
EP300 CARM1
TLE4 OTX2
POLR2C POLR2F
P4HB COL1A2
EIF5B ZBTB3
RUNX2 MYST4
BCL2A1 BAD
HTRA2 CSN1S1
HAND2 HEYL
TP73 N4BP2
SETDB1 INSL6
GEMIN6 GEMIN7

SPINK1 ELN
AIRE PARP1
FCGR2B LY6E
ARID1A PGR
ENC1 CUL3
SLC38A1 TMEM66
ELAVL2 NR2E3
ARNT EP300
SPOP ZBTB16
CYB5B MCC
IKBKB HNRNPU
PPP2R1A PHB2
TCF4 TAL1
SYNJ1 NCK1
ABI1 NIN
PAX9 ZNF440
ABI1 MINK1
ZBTB24STK24
RAC1 RTKN
TXNL1 SUMO4
PPP2CBIGBP1
TRIP13 ZNF655
AP1B1 ATM
YWHAG RACGAP1
CALCOCO2 LNX1
TRIM37BYSL
CCNE1 BRCA1
MGEA5 A2M
TRIM32UBQLN4
TADA3 FAM107B
IRF9 DMRTC2
F2R GNA12
FLNA PAK2
DVL2 ZBTB8B
YWHAG TMEM102
XRCC1 BRCA1
RGS20 TXLNA
NFKB1 MAP3K8
BCAR3 NEDD9
RAF1 GNG4

ARF6 PABPC4
VHL HAS1
STX7 VTI1A
CUL2 ASB4
GRK5 GIT1
MED30 MED13
DAND5 TAL1
INHA ACVR2A
APC TPM4
A2M LYZ
CSF2 SDC2
SMAD2 RASD2
GDF9 FOXG1
AZIN1 FANCA
RAD51 DMC1
PCBP1 TSC22D1
GCC1 NINL
PFN1 DBN1
TALDO1 ZHX1
RPN1 C20ORF94
CASP8 PEA15
SMARCA5 BAZ1A
TG CTSD
CDC42 UBR1
ZNF253 AKR1B1
STAC LIMD1
NR4A1 TRIM28
STXBP3 STXBP2
ULK1 MAP1LC3C
CRNKL1 DISC1
RARB NR4A2
CSE1L GRB2
VAMP2 TRPC3
H2AFX HIST3H3
KLC1 KLC2
GCC1 AMOTL2
XPO1 NMD3
DAND5 BCL11B
MAP2K7 MAP3K5
CTLA4 AP2M1

PAEP INSL6
RGS2 GNAS
HNF1A TLE1
JAK2 VCP
MEN1 WDR5
LTA LGALS2
ABL1 EPB41L3
POLR2B POLR2G
RUNX1T1 TAF9B
VHL SMARCC1
TP53 USP39
NEBL MED28
ATP2B4NOS1
LDOC1 FAM193B
TEAD4 CCDC85B
NCBP1 GSTK1
CTNNB1 HIC1
SMAD3 SIN3A
UNC119 UBQLN4
HSPA4 GRPEL2
PTEN UTP14A
GPS1 COPS6
ESR1 AHRR
SLC2A4RAB7A
PAK1 CTTN
ETS1 POU1F1
MAPRE1 TRAF6
KPNA4 KPNB1
EIF4A2 SMAD2
MAPK1 MAP2K1
TIMP2 PSAT1
STK25 PTPN13
CDC16 ANAPC11
EWSR1 CFDP1
PLXNB1 MET
TDP2 ETS1
ENO1 ACHE
TBPL1 TAF5
JAM2 JAM3
PIK3R1 BRPF3

HSPB1 DMWD
SRF SMARCA4
MDM4 CHEK2
CBX5 SMARCA4
PIK3R4 UVRAG
CALR LRP1
PPARG ASH2L
ARF6 RUVBL2
TNNT1 PLEKHF1
HSPB3 FAM127B
CTNNB1 DSC3
TOLLIP RBM38
VHL COPS5
MXD4 C21ORF77
GDF9 KIF22
SFN MAGI1
YWHAG KLC2
SOS1 CD2AP
PVR DYNLT3
PIAS4 SERBP1
DSC1 PKP2
HSPA1B DNAJC3
VASP NSMAF
ARF6 RUVBL1
SHC1 TGFBR2
ARR3 CLTC
PIK3R2 MED28
VHL IARS
GJB1 JUP
SRRM1 STAG2
UBE2H MKRN3
APP COL4A3
REL FKBP5
ARRB2 CSNK2A1
STX6 VPS18
PPL PPHLN1
CKS2 EEF1A1
YARS ARF6
TRMT112 TRAF6
POLB PCNA

ARF6 TRIM28
PCBD1 PAPOLG
TRAF3 RIPK1
MTA2 TOP2B
NR2F2 HIPK3
STAT3 SMAD1
IVL EVPL
TAF1A HIST2H2BE
TCERG1 CYFIP2
TRAF2 FATE1
PAX6 HIPK2
GNAO1 RGS1
PLK1 BTN1A1
PAK2 DOCK2
IFIT2 TMEM173
RPA1 PRIM1
RPA1 PRIM2
ATL2 ARL6
PHB MAP3K10
GNAI2 RGS18
PIK3R1 VAV3
BIN1 FBP1
BAX MEPCE
KLF1 CREBBP
PMS1 MOV10
EIF4G3 PABPC1
EIF3F MTOR
RTN3 PLEKHF2
SNAP29EHD3
ETV6 SKP1
PSTPIP1 C10RF9
DYNLL1 CHD6
RWDD4KCTD17
RBBP8 WDYHV1
SNRNP70 SNRPC
EIF4A2 EIF3L
HBP1 EFEMP2
GRB2 DNM1
MDM2 PRRC2C
PTPN6 LIFR

CCNH FUBP1
AES PTRH2
DYNLL1 NEK9
PRKACA NIN
RAC1 VAV3
ESR2 DDX54
MAP2K7 DUSP19
HSPB1 YWHAZ
RFC5 EEF1A1
SUMO2 CHAF1A
SUMO2 CHAF1B
PPARG PPARGC1A
EEF1D CRMP1
SOCS6 PIK3R1
HNRNPF NCBP1
PTP4A3 OAT
GRB2 CNTNAP1
EIF1B EIF3L
TSC22D1 CCDC59
GRB2 DLG4
TSC22D1 PTPLAD1
GTF2A1 NCOA6
EIF1B RUVBL1
CDK5R1 CAMK2A
EGFR S100A9
WDR5 SETD1B
DCAF10 SLX4
ST13 PINX1
OSGEP EMCN
ACTC1 ABRA
DNMT1 HDAC2
LEP HK3
CDC42 GCC2
S100A9 TAGLN
OMA1 PCDH18
CALM2 GRK1
ABCA1 CSNK2A1
SERPINF2 KLK6
RFC1 SSBP3
THRB PPARGC1A

GRB2 RPP38
PPARG SMARCD3
KHSRP PTBP2
UBE2E1 MKRN3
CCL2 CDC6
CALM2 LYST
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CBFA2T2 ATN1
ABL1 DLGAP4
PRNP TSLP
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PDGFRB PDGFD
NCOR1 EP300
HDAC2 RERE
CCL2 MMP8
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SIN3A WHSC1
BIRC5 XIAP
GAP43 CALM2
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ZFYVE9 NFKB1
SYVN1 USP7
CYTIP CYTH1
CLINT1 MAP1LC3B
CABLES1 TP63
PAX5 DAXX
UBC TOPBP1
HOXB9 MDFI
MTA2 MED30
MYC PARP10
APOA1 PDE1A
TAF11 TAF8
GRB2 CYP4F2
UBE2K RNF125
ZRANB2 U2AF1
WDR5 PHF8
LRPPRC PPARGC1A
ATXN1 SPEN
PSEN1 TRAF6

UBQLN2 RNF11
ACTB MEPCE
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COL1A2 BGN
REL CREBBP
KRAS RASGRP2
TERT YWHAQ
AR CCNH
AP1AR GGA1
SMAD2 MKS1
CETN3 PDE6D
LRPPRC UXT
TUBB TRAF1
PRKACA AKAP14
SRSF3 SRPK1
SNRNP70 CTDP1
RPL5 KPNB1
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GRB2 SH3BP2
NLGN1 NRXN3
BRF1 GTF3C4
PPARG NLK
GRIN2A DLG2
KEAP1 SASS6
IKBKAP CCT5
PRKCA PRKCZ
BARD1 MED17
ADAM17 DLG1
TG ASGR1
CDC37 EXOSC1
NLGN4X DLGAP2
MAP2K7 MAPK8IP2
MRE11A TERF2
GNS NCK1
VAV2 ARIH1
RIPK2 IKBKG
IGF1 ITGB4
ARPC1A ACTR3B
NRG3 ERBB4
BAD NAF1

MYBL2 TTF2
LYN BANK1
MAGI2 CTNND2
BRPF1 MYST3
KLF1 SMARCC1
PSMD3 BRF2
PSMD3 TRAF6
PARK2 HDAC4
RAB4A ACTB
HDAC4 SUMO1
SH2B2 PDGFRB
FUS RELA
CBL YWHAE
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HSPA1L TANK
MPG RANBP1
ESCO2 RCOR1
VAV1 ACTA1
RAD54L EME1
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CDC6 ORC6
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NFYB TAF12
TCEB2 ASB8
TFE3 ECHS1
MDM2 WDR45
EIF1B PSMA3
HDGF SMAD4
BRCA1 MLH1
TFRC SVIP
TERF2 SLX4
ICMT RAC1
E2F1 CDT1
HLA-B CD81
SMAD4 ZNF423
TOP3A RMI1
CALM2 MYLK
TIRAP MYD88
LRPPRC TNFRSF10D

DTNB DMD
ETS1 ELP2
CBL PTK2B
JAK2 IL5RA
PCNA LIG1
ETV6 SUMO1
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PSMD10 NFKB1
SPTBN1 EPB41L3
PCP2 GEM
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CALM2 TAB1
SIAH2 DLST
MAPKAPK2 MAPK14
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DNASE1 ACTA1
FANCA KRT1
CASK C16ORF70
ATAD3B PNKP
ABCA1 UGP2
UBE2I SOX4
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TDG SNIP1
F2RL2 F11R
BTLA TNFRSF14
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PTPRN2 SPTBN4
PTPN6 TLR10
RET PLCG1
TUBB MAP4
SMARCA5 HIST1H4I
CCT6A PPP2CA
BAI2 SHANK2
RBBP7 DHX30
HNRNPUL1 C14ORF1
BCL7B IKBKG
ATP5F1 TRAF6
UBE2D1 UFM1

HDAC1 NR2F2
FOS NCOA1
CUL4A COPS4
ALG13 RERE
HDAC1 RERE
MT2A USP25
TP73 UBE4B
SKIL CXXC5
NOD2 NLRC4
AR SRC
TXK CCR5
FOXO3 YWHAG
ARID4B SIRT1
DNAJB6 PHLDA3
PIAS1 TP53
PRKCI SQSTM1
RRM1 TNIK
TPBG GIPC1
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CD19 CBL
NFKBIA TUBA1A
FADD RIPK1
CSNK2A1 IL16
DVL2 ARR3
FOS SMAD2
HSPB3 LSM14B
MCF2L2 MEGF10
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VAV2 STK24
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ZEB1 DRAP1
CSNK2A1 SSRP1
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FOS NCOA3
GLUL UBE21
SLC38A1 ITGA9
DYNLL1 GRIN3A
ORC3 GRAP2
PTPN6 SIRPA

APH1A PSENN
MYO1MYOCD
UBE2E1 MAP3K1
CASK CNTNAP2
EEA1 HDAC6
SHARPIN SHANK1
MAPK8 MAP2K4
CBL UBE2G1
PRKACA USP49
MYB PML
UBE2H TRIM2
TTI1 RUVBL2
MAX PLEKHF2
HDAC4 YWHAZ
YWHAB YWHAG
DERL1 AMFR
PRKRA EIF2C2
TRPV4 PACSIN2
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CALM2 CSNK2A1
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APP SPON1
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MYOG MEF2A
ACVR1 RASD2
FLNA GRIK3
MAPK1 IER3
UBE2H TRIM5
PCNA XRCC1
CALM2 SMAD2
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CDC37 PRKAB1
CSTF2 SUB1
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EGFR HOXC10
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CDK5RAP2 LUC7L2
RXRA NR1I3

POU3F2PAX3
FXN PICK1
YWHAB SRPK2
CCNE1 CUL3
GP1BA OSGEP
HMGA2SMAD1
CCDC33 ZBTB8B
SNRPD2 SRRM1
IFNAR2CREBBP
CCT8 YWHAZ
HABP4 KAT5
PCNA BAZ1B
MYC GLUD2
BRD1 KIAA1377
PODXL SELL
GLUD1 DYNLL1
PSMA7 TIMP2
RGS2 PRKG1
PDHB SRRM2
VHL HDAC2
CBX3 SUV420H2
CASK EPS8
PCNA MUTYH
SMARCA5 POLE3
NCOR1 NFKB1
WWP2 TFAP2A
HNF1A AES
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TARS HLA-B
EIF1B COPZ1
FLT1 CBL
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OSTM1 RGS17
HOXC8 BTG2
CTNNB1 NEURL2
CDK8 SMARCB1
TP53 HECW2
SMTN BRMS1
FOS STAT1
EGFR PTPN11

A2M B2M
GSTZ1 GRB2
UNC119 PTPRS
PRIM2 RAE1
SOX6 SUMO1
CIAO1 SLFN11
PDGFA SPARC
FAM46A HTRA1
KRT85 LYAR
EPAS1 EGLN1
APBB1 HTATSF1
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ATN1 RBFOX1
PTPRC EZR
KLHL12 SNX20
AKAP12 PDE4D
OGT GSK3B
MX1 TRPC6
ST13 CD101
VARS OTUD5
KCNH4 TNRC6A
PSMA4 CUL1
TFPT RUVBL2
CASP3 THAP11
BLOC1S2 CNO
GPS2 TBL1XR1
KPNB1 LYST
HTT DLG4
PRMT2 HNRNPK
ST6GAL1 CD22
CASP8 RALBP1
KLHL12 ARAF
HNRNPL ITCH
EEF1D DYNC1H1
CPNE2 UBE2O
DAPK3 PAWR
CDC6 PPP2R3B
SNRPB DHX9
SMAD3 PLAG1
SYK CTTN

USP13 MYO15A
SYK SELPLG
HNRNPK RBM41
STK3 RASSF5
VPS4B VPS4A
GNA15 OPRD1
TGIF1 EEF1A1
TAF7 IKBKG
MET VAV1
DMWD SUCLG2
GNA15 OPRK1
PTGFR PTGER2
CUL2 SH3GLB1
EIF1B REXO2
ANK1 TTN
ABL1 SH3BP1
UBOX5 UBE2W
JUND BATF
MED1 PPARGC1A
SIRPA PTPN11
BCR PIK3CG
BCAR1 SH2D3C
DTNB UTRN
PPP2CB CCT2
TG P4HB
ITGB2 PRKCB
ACTB NCALD
CUL1 FBXW5
CAPN1 SYNE1
CDAN1 ASF1B
HIST1H4I SIRT7
EIF2AK2 DNAJC3
MAP2K3 TAOK2
CBX2 KRTAP4-12
PHF2 EED
APC CSNK2B
MYC BRCA1
RARA FOXO1
HSP90AB1 PPP5C
ARPC2 RAC1

SSR1 EEF1A1
SRGAP3 TNIK
BAX IRF3
RPS15AELF5
KRT18 PNN
NPM1 HIST1H3J
VAPB VAPA
TRIM29JAKMIP2
ACTA1 NEXN
CDKN1A TTLL5
BTF3P11 FN1
BAI2 GABPB2
SIX6 AES
BIN1 ATXN2
CBX5 MECP2
MED28 MED16
XRCC6 RRAS2
STX6 MARCH2
KIAA1377 ODF2L
SMAD3 RANBP9
PML KLHL20
CD3E SHC1
SMAD3 ERBB2IP
CALML3 MYO10
WDR62 MAPK9
TACC1 BARD1
RAB14 DSTYK
SEC13 NUP37
AXIN1 UTP14A
MAPK14 CAMKK2
EWSR1 CUEDC2
TBP GTF2A1
CYP11A1 FDX1
VHL KAT2B
DCD CDC42BPB
VHL KAT2A
TBP GTF2A2
DVL2 MAP3K1
RARA PNRC1
LMO4 LDB1

CAST CASP1
VPS11 VPS18
HDAC1 TAF1B
RBMX CIRBP
RUNX1T1 HDAC1
FLNC CAMKK2
DAND5 RELA
PRKAR1A CHMP4B
KRT36 ELF3
RPL35 LYAR
TMX3 BRE
C14ORF1 BAIAP2
SRI ANXA11
CDC37 TRAF6
CD55 CD97
GRB2 PTPN12
DYNLL1 NDUFA4L2
SMAD3 MED15
PHLDA3 NUP205
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COPG2 PHLDA3
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YWHAQ PI4KB
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USP49 SHCBP1
EPOR INPP5D
AFF2 GRB2
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NCOR1 SMARCC2
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TRMT112 N6AMT1
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GLRX3 PRKCZ
UBQLN2 BTRC
SMAD2 ZNHIT6
CASK DLG1
ZNF207 SF3A2
BCAR3 FUS
AGL RPS27A
PTP4A3 SSR1
XRCC6 PAEP
CSTF2 BRCA1
PTN ARL15
CREB1 GSK3B
ALDH2 C2ORF18
HLA-B TUFM
SNAPIN DTNBP1
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HTT SETD2
SERPINB9 PLEKHM1
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DFFA EWSR1
KDM5CHDAC2
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SKP1 FBXO7
CALM2 MAP3K14
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MDM4 AKT1
FGFR4 FGF9
FN1 CTGF
TRIP13 MEPCE
CFI CFH
SNTG1 DTNA
PHF6 LYAR

BUB3 TRAF6
SOX10 UTF1
LAMA1 DAG1
GEMIN4 EIF2C2
BRCA2 AURKB
PTGS2 NUCB1
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MCC RRM1
TERF2 MUS81
GYS1 GABARAPL1
RAP2A GABARAPL2
EFTUD2 PRPF8
ADCY6 GNAS
NOS1 DLGAP2
EPHB2 EFNB2
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BTG2 PICK1
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SLC25A4 BAX
SNRPA GIGYF2
FOXO3 YWHAB
ZNHIT1 UBC
YWHAZ PRKDC
PPP2R1B STK24
POLR1A SIRT7
GAPDH POU2F1
ACTB NCOA6
SMURF2 RAB22A
SREBF2 MKN1
EPHA3 RUFY1
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SYNCRIP INSR
CALM2 IKBKG
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PAH PCBD1
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FYN RP1L1
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CDH5 PKP4
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SNW1 CIR1
ITGB5 MYO10
MATR3 RELA
NFKBIA RPS27L
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PROC SERPINB6
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TRPC1 MDFI
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ADRB1 DLGAP2
CBR1 HLA-C
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CALM2 RIT2
INSR GAB1
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ALB F7
KRT20 EXOC8
SIN3B IKZF2
AES SIX1
ARAF FERMT2
ATF2 CREB5
TADA3 PIAS4
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SMAD2 IFT57
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LGALS1 CD7
TAF1A HIST3H3
SOCS1 NCK1
LAMA5 ATF7IP
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GLUL DYNLL1
ARRB2 MAPK10
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SMAD6 TOB1
AK1 TRIM63
POLR2C INTS12
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INADL CRB3
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CYCS AGTPBP1
SOS1 GAB1
CCNB1 TGFBR2
PRPF6 YWHAB
AP1G1 PACS1
CBLB SH3KBP1
CD82 CD151
GAK ALK
BRCA1 ATM
PRDX5 CCDC90B
ABL1 DAAM1
LYN SNCA
GNAI2 RASD1
IFNAR1 CRKL
SIN3B CIITA
RELA BTK
EWSR1 PRUNE2
TNFRSF10A MADD
GOLGA3 ACBD3
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CDKN1C FBXL12
PDIA6 SUMO4
SOAT2 FTSJ1
DNAJC14 LYST
UQCRC1 SMARCA2
PDPK1 SGK2
GTF2E2NUP62
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CALM2 NFKBIB
EFNB2 EPHA4
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EFNB2 EPHB4
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UBA1 SREBF2
YWHAG MARK2

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UBE2I RAD54L2
SUMO2 SENP2
CALM2 AKAP9
NF1 SMAD3
PCBD1 THOC1
ARID4B INGX
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SATB1 CUX1
SIN3B MXD1
TOM1L1 EEA1
LDHB RAC3
CALM2 TRADD
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DDB1 COPS4
NUP98 QRICH2
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NBN MDC1
HNRNPK SORBS3
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C1QBP HABP4
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HSPA1B BRSK1
GRB2 NAALADL2
CALM2 ASCL2
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NBR1 GABARAPL1
HUS1 RAD17
BLM MCRS1
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CREG1 RBL1
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COL1A2 COL5A3
YEATS4 SMARCB1
PHOX2A ATF6B
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SIN3B IKZF3
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PCNA CCNO
BCR ERCC3
BLOC1S2 IFT57
MPDZ KIT
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ID2 HES1
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IKBKB CLTC
DLG4 EXOC4
BCAR3 SET
PLK1 STK3
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IKBKE ARX

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TRIM27PML
TBP POU3F2
USP14 PSMD1
UBE2K RNF185
EFNB2 LGALS12
ISG15 UBA7
SIN3B IKZF4
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PLXNA2 UBAP2L
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NDC80 PSMC2
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SYNJ2 FYN
TGFB1 ITGB6
HDAC7 HDAC5
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MCM5 MDFI
ATXN1 BATF2
PLSCR1C10ORF54
HNRNPF SUMO4
TUBG1 CEP72
ETS2 TWIST1
HIST1H1B MELK
TCF7 DAZAP2
CBX1 SUV420H2
VAV2 VPS24
TGFB1 RASD2
DCP2 UPF1
CYBA VHL
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POLR2B GPN1
DAND5 DCAF6
CHEK1 TIMELESS
CDK5 PPP1R1B
BBOX1 HSPB3

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TBPL1 RAB35
APBB1 CPSF6
HIST1H2BG ELF3
SOCS6 KIT
ABL1 BCR
MYOD1PPARGC1A
ZBTB25SSX3
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POLD1 KIAA1377
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CUL4A DDA1
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UBXN1 TAF9
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MYCBP2 RAE1
SLITRK3 KDM5B
CHEK1 RPS27A
BCAR1 ACTB
CDC42 TMX4
RPA3 CHD1L
GH1 DSPP
FRA10AC1 GDPD2
EWSR1 MDFI
TERF2 RAD50
JAK3 IKBKG
PSEN1 KCNIP3
PIP WBP5
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ACTL6A SMARCA4
NDUFB1 NDUFA5
PTPN12 TEX10
GADD45G C7ORF64
GRAP2 USP8
UBE2N SH3RF2
NVL CRMP1

UBE2N RNF128
KRT10 TJP1
DAND5 CABP1
TGFBR1 RAN
SYTL1 NRXN1
PPP2CASGOL1
SPR CAMK2G
NR3C1 HOXB1
CD74 CTSL1
DNAJA1 ARL4D
EDN3 EDNRB
SAFB TAF15
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PIP USP25
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BRCA1 CTBP1
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RBF2 CHAF1A
F8 F10
CAV3 DAG1
DAZAP2 EXD3
SMARCA4 PABPN1
MAGOH PINX1
HOXA1 KDM5B
POMC PAM
UBE2I ZNF451
NADK GRB2
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FMR1 NUFIP2
FGA KLK6
HGS MET
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DRD2 SSTR5
EWSR1 BARD1
SOCS3 IL6ST
HGS RPS27A
ABL1 WNK2
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LCK VAV1
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HRAS BCL2
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CTNNB1 GNA13
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CUL1 COPS5
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CDC7 DBF4B
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IKZF1 RBBP8
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CCDC91 TESC
SUMO2 MTA1
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BIRC3 MAP3K14
YLPM1 PRMT1
HR TBL1X
SMAD4 BTRC
MAP3K8 CLTC
VENTX IRF9
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DEGS1 FOXP4
SGSM2 MPP1
INSR CAV3
NR3C1 IDE
GOSR1 NAPA
C3 VHL
CCDC130 TRAF2
SNX33 SNX9

TRIM23 UBE2U
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MAPK8 JKAMP
CIAO1 IPO4
POLR2F MED9
UBE2D2 XIAP
HSF2 NCAPG
NFKB1 KAT5
SPRY2 SH3KBP1
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NSF VAPA
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MMP2 LAMC2
IKBKB CUEDC2
L3MBTL2 PHF10
NGFRAP1 TRAF4
EWSR1 WDR37
CCL5 SDC1
IL7 IL2RG
TUBGCP4 MAD1L1
PBRM1 SMARCE1
CRMP1 DPYSL2
MAPK10 PLIN2
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CETN3 IKBKG
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CRK ID4
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SNRNP70 RNF11
PDCD10 TRAF3IP3
PIN4 EZH2
HCK AGK
TLR2 MAPK8IP3
FOXO3 SMAD2
FGFR3 GPSM3
PRSS3 TFPI
SUMO1 XPC
FCER1G GP6
PPP1R12A FOS
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UNC119 ZFP64
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ARID4B SAP130
IKBKB NFKB2
TRAF3 MAP3K14
TARS ARF6
SSX3 ZBTB3
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SYNCRIP SF3A2
KHDRBS3 RBM7
VPS11 UVRAG
HDAC4 PPP2CA
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GRB2 ST5
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TCERG1 CHAF1A
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IKZF1 HDAC7
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KCNQ2 PRKCA
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EPHB2 EFNA5
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DISC1 TNIK
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CYP27B1 RUNX1
NFKBIB PDCD2
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CPSF6 ITCH
CHRM3 ARF6
BCL3 EP300
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STOM CUL2
ELF3 SPG7
RBFOX2 PSMF1

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RPL28 CDC42
CHEK1 MDM4
GATA1 SPI1
ITGB1 LGALS3BP
ABL1 MAP4K5
ABL1 TRAF6
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DCP2 DCP1A
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VOPP1 C8ORF33
MAPT BAG1
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IARS NFKBIB
TCEB1 PPRC1
CAPNS1 ATP5J2
SHBG SEMA3F
MRAS RASSF5
SRGAP2 DISC1
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ACSL3 GTF2F2
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APC2 CTNNB1
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GRB2 PTK2
INSR SNX1

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HLA-B SOAT2
WDR1 SKIV2L
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INSR IRS1
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KRT9 SH3GL3
SMAD4 SMAD1
RALYL THAP1
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CSK PTPN12
HSPA9 SUMO4
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DCAF7 DYRK1A
CTNNB1 CDK6
PCNT BRAF
TXNL1 USP14
MEPCE SAP30BP
UFD1L USP13
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ALDH5A1 ABAT
ATF7IP RRBP1
FYN GAB3
NCK2 DOK1
LTBR TRAF3
IGSF21 EPB41L3
LCK BCAR1
ABL1 TLN2
UBE4B XPC
PIH1D1 RUVBL2
DHX9 HINFP
NUMB LNX1
TBXA2R GRK6

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ZFYVE9 BAG6
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FYN COBRA1
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TIFA AP1M1
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TRIM23POM121
MCM3 MCM5
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CCND1 CDKN1B
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EP300 LEF1
SRC CRK
DDB1 VAMP3
PRKACA CREM
STAT6 ANKZF1
MAX SNIP1
SPN DAXX
ENY2 TRRAP
PCBD1 BCAN

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THBS1 JAG1
ACTA1 TRIM63
CLU WNK1
BET1 USO1
PSAP SMAD2
PHPT1 DNMT3L
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CAPN1 ARF6
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SMARCA4 SMAD3
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ULK1 USP10
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PIK3R1 TPX2
TUBA3C NFKB2
CFLAR FADD
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TGFB2 DAB2
BRCA1 ORC2
TFE3 LRPPRC
FLNA MAP3K1
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BRD1 TAL1
IKBKAP NDUFB9
CCNB1 RUNX2
MYC GNL3
HDAC4 NCOR2
GKN1 MDM2
GSPT1 VHL
RB1 TRIM27
TUBGCP4 CHIC2
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RAB1A RUSC2

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NTRK1 NGFR
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TLE3 AES
DLEU1 KAT5
DCTN3 PBX2
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ANKRA2 HDAC9
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RPA1 ATR
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STAT1 CAMK2D
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GH1 SOAT1
ESR1 JUND
AP2B1 TERF2IP
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FYN ABI1
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TNFSF14 TRAF2
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RECQL5 STAMBP
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OXSR1 SLC12A1
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WISP1 UGGT1
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FYN DOCK3
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FLNA PSEN2
GNAI2 CAV1
VHL RIT1
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SYNCRIP PRKAB1
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GRIA3 PICK1
HSPA1B IKBKG
VIM PLA2G4A
MITF SPI1
POLA1 HELB
HIST1H3J KAT2B
AGTR1 ARRB2
HIST1H3J KAT2A
RCC2 TNIK
RBBP7 INGX
PTPN2 FKBP4
CAP2 ACTG1
ATXN1 CLASRP
HIVEP1 FBXW11
PSMD11 EEF1A1
DAND5 CEBPB
LMNA ZNF239
PINX1 MYCBP
UBE2D2 RNF14
ABI3BP ABI3
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PGR RBM23
GATA1 ZFPM1
FIBP AP4B1

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BIRC5 PPP1CC
MUC2 MAP4K5
SQSTM1 NIPSNAP1
JUP FER
FN1 LGALS3BP
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UBE2D2 TRIM39
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RXRA NR4A1
PFDN5 BRMS1
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FOS LAS1L
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TRIM29GCC1
THRB MECR
HDLBP FAM46A
MEF2C SMAD2
HADHBTNNI3K
A2M PRAM1
DDX5 CHD3
POU2F1BARD1
PCNA CSTF1
TWISTNB TAF1D
RAB3GAP2 GSTK1
CFLAR TRAF3
FAM107A KRT15
INHA FST
SURF6 SMAD2
RASSF5RASSF1
HNRNPM NFKBIB
YWHAZ LARS
MCF2L RHOG
EDF1 RXRA
APBB1 WIPF1
CLU TNIK
BLMH KBTBD7
SMARCA1 HIST1H3J

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TPST2 CCR8
PLOD3 EHMT2
NOTCH2 MYOC
EWSR1 HIST1H3I
TP73 SASS6
BRD4 MED12
GPD2 YWHAG
ACTG1 PLEC
SHFM1 PCID2
YWHAZ CGN
SCN4B SCN2A
SFN ARHGEF17
EZR L1CAM
NTRK2 SH2B1
PTPRZ1 WAS
PRRC2B EHMT2
ATF3 NUF2
SOX5 SMAD5
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LHB LHCGR
CPSF1 CDC73
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PIK3R1 ASAP1
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ACP1 EPHA2
SCAMP1 SLC9A7
ENSA MCM3
PAEP COPS6
MYOD1 CSRP3
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EWSR1 RALYL
NPM1 STAT3
GYS1 GSK3B
ALPL TRAF3
ARPC2 SNRNP35
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MED6 CDK8
BIN1 SH3GL2

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ABI2 WASF2
CHN1 TGFBR1
USP1 CALML5
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BUB1B HDAC1
OAT HLA-B
TRPV4 PACSIN3
MAPT YWHAQ
RPS23 GRB2
ATM RBBP8
PLXNB2 PTN
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MED21 TARBP2
PRKDC PTS
ESR1 DUT
HDAC2 UHRF1
CSDE1 WNK1
NEFM MDM2
GPS1 CUL5
PARK2 PDCD2
SNCA SNCAIP
CUL4A DCAF5
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FOXO3 MYC
HSPA9 RELA
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H3F3B CHD1L
ACP1 ZAP70
POU2F1 IRF9
RNPS1 C20ORF11
NR3C1 POU2F1
C19ORF57 IKBKG
ID2 NEDD9
NR112 RXRB
TNNI3 SMURF2
HDAC1 BCL11A

TRIM24TAF1C
HDAC1 INGX
EZR VHL
ACP1 EPHB2
C21ORF63 RBBP6
PFN2 MUC7
TCP11 IKBKG
EHMT2 PRDM5
EPRS NFKB2
XPO1 PHB
CXCL13 CXCR5
SMARCA1 BAZ1B
ATM CDC6
PHLDA3 SRPRB
PCBD1 SCMHI
FOS ESR1
WBP4 FUS
MAP3K7 IARS
PAX3 TRIM28
GNB2 GNG13
UTRN PPP3CA
CRMP1 MOBKL3
UBE2I RAD54B
PLK1 PAK1
GIGYF2SF3B2
PPM1G SNRPA
SOCS2 IGF1R
TXNL4A USP39
ERBB2 HSPA4
ABL2 CRK
USP39 PA2G4
TXN DNAJA1
ADRBK1 PEBP1
GTF2E1GTF2A2
VAV1 SYK
TUBB BRCA1
CFH ITGAM
VAV1 ZAP70
OPRD1 OPRK1
PHLDA3 TNPO3

CXCR2 MYO5B
PRKACA PDE4B
E2F1 TP53BP1
GTF2E1 GTF2A1
OAT DMWD
MEIS2 PBX1
CANX OPRD1
SIRT2 PHB2
PRKCG CLIP3
TRIM24 TAF11
TRIM24 TAF7
SUMO1 TOPORS
SEPT4 TNIK
ATG2A WDR45
BCL6 SIN3A
CALCOCO2 RHPN1
KPNA3 ARRB2
ATG7 ATG3
CCT5 RFWD2
EIF4A2 DDX24
AKTIP EXOC7
PTPRS KAT5
HEXA GM2A
HNRNPH1 CCT5
CST3 CTSD
RAB1A MICALL1
RASGRF2 PANK2
AKT1 CDKN1A
POLR1C CIAO1
YWHAZ CCT2
ACTB LASP1
MYH2 USP15
PIAS1 BRCA1
PPOX IMMT
FAIM3 HOXD9
MEF2C SIRT1
BCL2 SPNS1
NAPA IKBKE
PIAS4 ZMIZ2
PPP1CCAKAP11

RANBP2 PLEC
CASP3 YWHAE
RAD51 MDC1
TXNDC9 IKBKAP
MAP3K7 HSPA9
CCNB1 CCNB1IP1
YWHAG COLEC11
GORASP1 TMED3
ADAM12 IGFBP5
UTRN HIST1H4I
HNRNPR MEPCE
CBX3 CHD1L
ESR1 PRKACA
CSNK1A1 CREM
ANXA2 MCC
RNF2 MYST1
SNAI1 BTRC
TMCC2 UBA1
UIMC1 BARD1
CASP3 RAD51
ZNF250 BEGAIN
AKAP3 PRKAR2A
HBP1 SMAD1
SUMO2 TRIM28
ACTR1B ACTA1
RNPS1 FGD3
FOS TLN2
ANPEP SFN
ABL1 CD2AP
WWP2 SF1
TRAF2 TRAF1
PCNA POLL
UBE2N RNF165
NFKB1 JAKMIP1
TFCP2 SIN3A
EPB41 GDI1
TPM3 S100A2
PRPF40A GAPDH
IKBKB KIAA1967
PPP2R5A SGOL2

UBE2L3 ITCH
GRIN2D MAP2
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SLC38A1 SAT2
CTNND1 MTNR1B
CHD3 BARD1
SDCBP SRC
HTT PIAS4
IKBKE SAE1
FOXO3 AKT1
CAPN1 F2R
SGSM2 AFP
MRPL10 USP22
CHD3 FAM134A
HSF1 STUB1
SNRNP70 ARSF
PRPF4 NAA38
SSTR3 GNAI1
HSPB1 HSPB8
PHB SUMO4
ARL1 CDK5RAP3
YWHAG CAMKK1
TP73 CHD3
CDK9 PCBP2
PTK2 ARID2
SUMO1 SALL1
GRK6 GIT1
CUL4A BRWD1
CDK1 RAP1GAP
USP49 PPP6R1
CHD3 SERBP1
USP19 PDHA1
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PCBD1 SMARCD1
SPTA1 EZR
RPS20 NEDD8
IRF9 GFI1B
SUDS3 BRMS1
HDAC2 SPEN

PDIA3 RAC1
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XPO1 NF2
RDX PHLPP2
SSBP1 LDB1
HDAC2 SIN3A
CDC37 IKBKG
LTA4H DDA1
MAPK1 STAT5A
MSN ICAM3
MYO1DRIPK3
RBL1 TFD2
UQCRC1 RUVBL2
ARVCF CDH1
SRC RPS6KB2
LSM3 LSM4
SPI1 CEBPD
CPSF3 WWOX
UBE2W CHFR
PTPLAD1 TP53TG1
INO80 RUVBL2
NR3C1 SYT1
HDAC3 NFATC1
RB1 PA2G4
UBE2I GMEB1
RBL1 TFD1
DHCR7 TNIK
NFKBIA ARRB2
PPIA YWHAZ
SNRNP70 BTRC
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SREBF2UBQLN1
CDKN2A PPP1R9B
CD4 CXCL12
XRCC5 KAT2A
SPTBN1 RIPK3
INO80 RUVBL1
SNX4 SNX6
UBE2I FMR1
CSTF1 CSTF3

LSM3 LSM5
PRMT5 HIST1H3J
HMGB1 RFX1
EPHA2 SHC1
LTF PAK1
TRMT112 PRKAB1
SRC CAV1
RAD21 CTCF
GAS7 APBB1IP
SSSCA1MYO15B
SFN NEDD4L
POLR2E TAF15
CCDC136 CDC5L
UBE2WRNF125
CLTCL1 SNX5
CASK FCHSD2
USP12 PAIP1
GH1 HIST1H2BG
PDLIM1 RLIM
TLK2 ASF1B
PTN ITSN2
LANCL1 STOM
PRSS23 TCF12
TRPC1 TRPC4
AP3B1 BUB1B
RALA RALGPS1
RCC2 FTSJ1
ACTC1 AFAP1
AP2A2 CLTC
ASF1B TLK1
MAP3K10 PRKCZ
LRRC41 TCEB1
EIF2S1 PRKCD
GBP2 FXR1
NPM1 NUP98
CTBP2 TGIF1
CDC42 ANO1
GZMA APEX1
AKAP17A MDFI
CASP8 TRADD

GEM CACNB1
HTR2A GNAI1
FUS SRRM1
ABL1 GPR45
DAZAP2 RPS27A
UBC COPS5
PAX6 RAX
ACTL6A EWSR1
MAOA NDRG1
UBE2N MKRN3
HDAC1 MORF4L2
COL2A1 FN1
LTA LTBR
LRRC41 TCEB2
GOLGA3 TAF10
EWSR1 RASL11B
UBE2I DNMT3A
TGFB1 LTBP1
ABL1 SNX8
CHD6 TOLLIP
SDCBP RAB5A
PTK2 ROCK1
ABL1 NFS1
WARS EEF1A1
DYNC111 STAU1
LYL1 NFKB1
COL2A1 C1QA
FASLG GRAP
YWHAQ EIF4A3
BCL2L1 AKT1
TCERG1 HSPA1B
VCP1P1 NSFL1C
TUBA4A MARK4
BDKRB2 GRK4
TADA3 ANKRD12
FGFR3 FGF8
VHL RCC2
ZNF10 TRIM28
IMMT TSG101
IKBKB AKT1

PLD2 ARF1P1
GABRR2 MAP1B
CGN F11R
ADAM12 FST
POP4 POP5
SHC1 COPS5
YWHAH KLC3
VIPR1 GNAQ
XRCC5 APEX1
HLA-C UGGT1
JUND NFE2L2
ASF1B ASF1A
TAF2 TAF9
ETV6 CRKL
ARHGDI1 EWSR1
NAIP NLRC4
GNAZ ADORA1
ADRA1A ABR
TEK TNIP2
BDNF CADPS2
VCP UFD1L
PRKAR2B AKAP11
USF1 PRKDC
PRKCA DNM1
BMP2 DIP2A
MAN2A2 RANBP2
FASLG PIN1
RFC2 PMS1
POLR3D MSX2
HSPB1 AKT1
PPM1F PAK1
RAD1 HUS1B
DCAF6 TRIM63
CDC42 PARD3
STXBP1 APBA2
PMAIP1BCL2A1
CSNK2A1 BRF1
EPB41 MAPRE1
CSNK2A1 DVL3
NPM1 HMGA2

EGFR SH3KBP1
LRP8 SS18
MLL PPIE
RAB4A GDI2
HLA-B MRPL40
CD2BP2 WBP11
HSPA1B CUL4A
MAPK3 PLCB1
BUB1B AP1B1
PIK3R1 DOK1
GATA4 MDC1
ACTB NSMAF
SKP1 FBXO16
SLC2A4UBE2I
VAV2 ABI1
PPP2CAPDCD10
RIMS1 RAB26
TERF1 RPS27A
UBE2N TRIM32
TP53 INPP5E
FABP1 PPARA
EED HDAC2
CNOT4 UBE2D3
EIF1B EEF1D
TUBA4A E2F1
TXNRD1 PPP1R16A
CSNK1E PER3
RAB3D RPH3A
HSP90AA1 SMYD2
MPP1 STUB1
HSPE1 TLE1
TJP1 TUBB
SAFB SRPK1
PPP4C DYNC1H1
EPB41 TSN
IGF1 IGF1R
PLXNA2 FNBP4
MYC SORBS1
RBFOX2 MED7
CBFB SPARCL1

ETS1 PCNX
SNRPF MEPCE
NFKB1 CAD
HTT HAP1
TBPL1 IRAK4
CNOT4 UBE2N
ERG ETV1
LRRC14 COPS5
PCBD1 PGAM5
HUNK PPP2CA
HNRNPU GPN1
MDM4 EP300
ZNF205 UBQLN4
CSPG4 LGALS12
ARF6 SRPRB
ZEB1 KAT5
VHL ACLY
C1R GRB2
VHL ZNF512B
GIPC1 ADRB1
RIPK1 CCDC50
PHF2 XRCC5
TP53 TOPORS
RAB3D MAST1
HDAC3 ZBTB7A
TNFAIP3 RARRES3
POLR2I MED29
APC AP2B1
PPP2R2A TCEAL1
PHACTR3 LXN
CSNK2A2 GTF2A1
FANCA MKNK1
EPB41 FKBP2
DAXX MAP3K5
CDC27 MDC1
TGFB1 SAT2
CDKN2C TLE1
RDBP WHSC2
PMVK CENPH
MT-ND4 STAT1

TP53 NR4A1
TCF4 ID1
SFN ARHGAP32
RAPGEF3 RAPIA
SNAPIN VOPPI
RB1 SKP2
ATP1B2NGB
BRD2 E2F1
F12 GP1BA
TP53 SFN
KHK ILK
CBFA2T3 HDAC1
NRAS EEF1A1
WNK1 SYNPO2
RECQL5 TOP3B
SDC3 SDC4
ACSM3 EHMT2
FBLN1 CTGF
TAGLN PRKCD
FCER2 ITGAX
GEMIN4 DDX20
ZBTB16EP300
TRIM37PBK
HDAC1 SETDB1
C3 MASP1
PTPRC WAS
PCBP1 PCBP2
PTP4A2PTP4A1
ETS1 RPS6KC1
RAB6A BICD2
CLDN5 MPDZ
MYF5 MDFI
BCL10 IKBKG
PSMD11 HAPI
ABL1 GRB2
CCNT1 BRD4
TPR NUP107
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HGS MIF4GD
ECSIT MAST1

YWHAZ GAPVD1
SUMO2 ZMAT3
MLL2 SRRM1
FN1 SKIL
PTK2B ASAP1
FLT3 IKBKG
PRPF40A SNRNP70
ESR1 BCAR1
ESR1 DAP3
LRP1 GIPC1
PTPN9 GAB1
DAPK3 GRB14
FBXO2 STUB1
IL4R IL2RG
TNF RIPK1
TCP10 PARD6B
PRMT5 WDR77
USP54 CHMP2B
FYN CBLB
PSMD4 PSMC5
PTEN DLG1
ATF6 YY1
PDZD2 CST3
KRT15 ABI2
CD79A CD79B
RB1 CTBP1
STX1A STXBP5
CD82 PTGFRN
TG CTSL1
NSF CSNK1G3
SOD1 KARS
MBP MAPK11
SRSF4 DYRK1A
ZNF124 MDFI
CDC25C RPS27A
UBE2I C18ORF25
RGMA PPP1R16A
CHD1 SRSF3
PPARG EP300
HDAC1 CDK5R1

CDC25C BRSK1
EWSR1 C19ORF50
MLL E2F4
CFD HDHD2
HDAC3 NRIP1
H2AFJ TOP1
EDNRA ARRB2
ATG14 NRBF2
RPS6KA5 ETV1
UBE2I PIAS3
IGJ CD79A
ABI2 ADAM22
TFE3 SET
CDH1 CDC27
COIL GCC1
DKC1 WDR48
CSF1R SHC1
NCL PAX8
GCH1 RPH3A
VAMP2 VAPA
POLR2B POLR2L
UBTF SERPINH1
NUP62 G3BP1
KIF5B IKBKE
GATA1 ZZZ3
KEAP1 RBM45
TNNT1 PSMC5
HDAC4 MAP1S
CLPX FBXW11
DEAF1 ASCC2
CSNK1A1 PPP2R5A
HMGB1DNMT1
GSK3B SMAD3
XRCC1 POLI
PIK3R1 MYRIP
MORF4L2 HDAC9
EED EZH1
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FLI1 EWSR1
CCNDBP1 IMP3

NCAPD2 NCAPG
PARK2 DLG4
CBX1 CHD1L
NOTCH1 PIK3CG
CCNA2 BRCA2
USP14 FANCC
TNFAIP3 FBXO3
IRF2BP1 JDP2
AKT1 ARFIP2
BACE1 LRP1
SERPINA3 HOXB1
MEPCE LSM7
SEC62 SEC63
DNAJA2 HSPA1B
HNF4A SIRT1
LYN CSNK2B
CDC42 IQGAP2
GMNN SCMHI
GFAP TUBGCP4
STAG2 STAG1
GALNT12 MUC7
CDH2 PIK3R1
CCND2 SERTAD1
KRTAP4-12 ZNF426
NOTCH1 NOV
TUBB4 RIPK3
TBP POLR3C
CDK1 ERCC2
ZNF263 ZSCAN1
UBE2C RNF216
FLNB GRB2
TOM1L1 GSN
ABL1 DNM2
LYN PRKCQ
COL4A2 FAM46A
RIMBP2 USP3
PPP2CATBCD
UBC MARCH5
GLRX3 TNIK
TCERG1 HNRNPH1

MAPK14 C14ORF43
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DST PAK2
S100A12 CACYBP
CREM FHL5
SPARC HSPG2
GYPC MPP1
F2 SPP1
U2AF2 SF1
ATAT1 SETDB2
YWHAQ RASGRP3
ECSIT SMURF1
TP53 WDR5
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ESR1 SRC
FYN DOK1
FYN CDK1
NLRC4 PYCARD
SYT6 NRXN1
MED30 MED10
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TFCP2L1 UBP1
F2 SERPINB6
MYSM1KAT2B
TBCA MDM2
PIP5KL1 PIP5K1A
TP53 YWHAG
RAC1 CACHD1
MLLT4 RIN1
CDKN1A TSG101
SEPT9 SRRM2
RANBP2 USF2
TYK2 CRKL
S100B VAV1
SH3BP2CD244
RRM1 FTSJ1
NAA10 EHMT2
DAND5 HMGA1
RHOA ARHGEF12
ACTA2 EP300

CLTB CLTC
RGL2 UNC119
OSM COL4A6
PARK2 CCNA1
MRPS24 DDX56
RHOB MAP1A
HSPA5 PAWR
F11 SERPINA5
HLTF RPAP1
ESR1 XRCC6
YWHAZ SLAIN2
PRSS23 TCF12
EIF3H SRRM1
TAF10 TAF13
TAF10 TAF11
CDK1 PTPN1
TAF10 TAF5
PJA1 RIBC2
KCNAB2 SLC39A2
NLGN2 NRXN3
WDR6 G2E3
TP73 EIF2C1
RAC1 ARHGEF25
MED7 MED26
TAF10 TAF7
SMAD1 UBE2Z
FYN CHAF1A
CHGB SMAD2
ABL1 ROBO1
SNAPIN ST7
APAF1 FAS
RAB6A INPP5F
TUBB MAPT
RXRB NR2E3
INO80B INO80
UBC DDIT4
HLA-B GMPS
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PFKL MAP3K3
AIFM1 SETDB1

PRKCG PDLIM5
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TSC22D1 USP9X
MEIS1 CREB1
SOCS3 RASA1
PKM2 RANBP2
VAPB STX2
ELAVL4 ELAVL2
LYZ USP25
PLD2 GM2A
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RADIL MED19
DAND5 CDK2
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DVL1 SMAD4
APBB1 DHX15
SHC1 INPP5D
MUC2 PLEKHM1
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WWP2 RNF11
EPB41 PSMC4
KPNA5 RAC1
PLCG1 AKT1
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NUMB PRKCD
UIMC1 CPNE1
PAX7 HIRA
SNAP23STX12
VCP UBXN2B
ABL1 NCOA3
TGFB1 FKBP1A
HSPB1 DAXX
PITPNB IKBKE
SERPINC1 KLK6
IRF2 IRF2BP2
PIAS1 ELK3
PARK2 CCNE1
CDH1 ARHGAP32

HGS HAP1
DDX3X SUMO2
OPRD1 PRKCE
SARM1 MYD88
YWHAZ KIAA1429
PIAS1 DCLRE1A
BBS9 BBS2
APLP1 SETDB1
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POLR2C UBE2W
ABL1 WASF2
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KNG1 GP1BA
CTNND1 MUC1
STRN CCT6B
GRN MEF2D
SGTA IKBKE
TGFB1 RPS27A
DLGAP1 KCNA4
MAX TXLNG
LGALS1 LGALS3
SUMO2 TDG
UBE2L3 ARIH1
VHL IREB2
MSH2 SMC1A
ELAVL4 NFX1
FLNC MYOZ1
SPAG9 KLC1
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SGK1 SLC9A3R2
ACTN4 TJP1
IARS IKBKG
YAP1 RUNX1
NFKB1 HDAC2
ECSIT FARSA
PRKCI MAP2K5
TMEM33 FTSJ1
IKBKB MRPL4
TOP2A SRPK1

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MYC TUBGCP4
PLCG1 RAC1
SNCG GRK5
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GAPDH CBL
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MST1R YWHAH
SRC ETS1
ANK3 SPTBN4
NCAPD3 NCAPH2
SUMO2 HDAC1
SH3BP2DBNL
CIAO1 HLTf
MRPL41 SMURF2
GART ARF6
VCP TNFRSF14
PTK2B MYH2
SUN2 BTRC
ACVR1 DCAF6
TRIM24NR2F2
ALPI BICD1
EIF2C4 DICER1
CXORF27 HTT
C7ORF64 CCDC106
GJA1 SGSM3
PIK3R2 SHC1
XIAP COMMD1
TGFB1 RPS27A
ZAP70 DUSP3
FUT7 TLR10
HTR2C MPDZ
PRKCG SDC2
A2M GEM
DST ERBB2IP
TNFRSF1B PTPLAD1

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TRIM29 TRIM11
ATXN1 ZNF276
MLL2 MEF2D
USP54 CHMP4B
RANBP2 SLC12A2
LRIG3 PNKP
GAPDH AR
GIT2 GIT1
ZNF862 ATXN7L1
RTCD1 CDC5L
CCNK CCDC85B
ARL6IP5 SLC1A1
SYT1 STX3
UBL4A BAG6
PHC1 WNK1
KCNA3 KCNA1
PPP4C IKBKE
KNG1 CAPN1
MYL6B IQGAP1
CDK1 SFN
AKT1 AKT1S1
PTP4A3 HSD17B11
TGFB1 FKBP1A
ZBTB16 HDAC1
YWHAZ C5ORF25
CASK TANC1
PABPC1 EIF4B
RELA SNIP1
RAMP3 PDCD6IP
RIPK1 TICAM1
SUZ12 SETDB1
MAP3K12 MAPK8IP2
HIP1 CASP3
F10 SERPINB8
GAPDH MDM2
EPS15L1 EPN1
TUBB4 NR4A1
CCT8 MEPCE
UNC13A RAPGEF2

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PIK3R2 EPHA2
PIAS1 CASP8
AXIN1 EEF1A1
PRRC2B EHMT2
RFC1 PMS1
SUZ12 SETD8
KARS MAPK14
UBE2U RNF14
FAM57A GGT7
MEF2C NCOA2
TBP RNF4
DRD1 CALY
ERBB3 CRK
SAP18 DDX3X
ERBB3 CRKL
PRKAG3 PRKAB1
BRCA1 NMI
PFKFB1MAPK3
ADD1 SMARCC1
CASK CNTNAP4
CYCS TNIK
KPNA5 MEPCE
YWHAG LRFN1
PRKCI PARD3
F2 SERPIND1
TRIM29IKBKG
TUBB4 TRAF6
ALB PLCB1
KIT PLCE1
CASK NRXN1
LCK EZR
PAK4 CDC42
TSR1 PINX1
POLR2B CTDP1
ELF3 NLRC3
DDX26B CEP63
KRAS RASSF5
MDN1 FTSJ1
SOCS1 TRIM8

SCNN1A WWP1
MYL12B PNKD
GNAZ NMT1
C3 LRP1
TOP3A FANCM
FN1 TSHR
PCNA DNMT1
MAPK1 ADAM17
YWHAG SYNPO
BMI1 KAT5
FTCD CLDN19
PPP2R1B PPP2R2C
SOS1 GRAP
PTPN6 PRKCD
RPS27AE2F1
PRKCA PTPN12
HLA-A DERL1
EIF3K TRAF6
SRSF6 RRP1
TJP2 SRRM2
RBBP5 MYST1
EPB41 PSMB7
IKBKE BCL7B
SUPT3H TAF12
SLX4 NUP50
PPP1R12B PPP1CB
FLNC MYOZ2
VAV2 TARBP2
RAPGEF4 RIMS2
CLIP1 DCTN1
UBE2L6 SPEN
HLA-B DDX21
RPS27ASPTBN1
APOE SCARB1
CPSF6 CREBBP
MYC XPO7
MAP2 TTBK1
REM1 YWHAH
LIG1 INPP1
FYN LCP2

NCL FMR1
MED18 MED20
FLT1 SHC2
BRCA2 DMC1
USP9Y PMS1
EPHA2 CTNNB1
HNF4A EXT2
SUMO3 UBE2I
RAB6A SYTL5
UBE2L3 TRAF6
APC TXNDC11
NBR1 MAP1LC3A
AR CDK6
PSMD11 SETDB1
STAT6 PRKCZ
FYN PDIA2
ABL1 TUB
ARF6 HYOU1
PRCC MAD2L2
NR6A1 UIMC1
SUPT3H DDB1
YWHAB GAPVD1
UBC RHOA
PGK1 PRKAG2
GAPDHBPGM
TOM1L1 TSG101
CDC42EP1 MDFI
ZFP161 PRMT1
ESR1 RGS3
CUL4B NEDD8
GRIN2B DLG3
SS18L1 SMAD1
RARA NRIP1
APIG1 MAP1A
GDF5 HTRA1
SLX4 PNMA2
FBLN1 MPG
LMO4 DDB1
TRAF6 TRAF2
SP100 SUMO3

ATF7 PTP4A2
RXRB NCOA3
NKTR MAPK14
GAPDHS NTHL1
SNRPD2 GEMIN6
FOS KDM2A
SYNCRIP STK24
CDK2 BCCIP
NIPSNAP1 TBC1D17
MEN1 RBBP5
ARPC3 ACTR3B
PTPRC TEC
SUMO1 SPATS2L
NGFRAP1 SMAD2
TOLLIP ZHX1
PTPRZ1 CTNNB1
YWHAZ ADAM22
SUMO1 AGPAT5
YWHAZ RAI14
SMARCA4 H3F3B
ANXA2 ARF6
VIM BFSP1
GATA4 MEF2C
PPP6C PPP6R3
GRIA1 GRIA2
TAF15 ZNF384
VTN ITGA8
FIP1L1 WWOX
ABL1 PAX3
SHC1 MAPKAPK2
SUN2 USP20
LCP1 ATXN2
DYNLL1 ASF1B
SNW1 ZSCAN1
HDAC3 CCT5
RPS3 RELA
UBE2H TRIM56
PSMD11 PSMD6
DMD ANK2
DHX15 WBP4

SPTAN1 FANCF
ASAP2 PIK3R1
TCEAL1 PPP2R2D
VIM MRPL44
BACH2 PATZ1
RGS12 YWHAG
CHEK1 MCPH1
S100A4 SEPT7
PLCG1 ZAP70
PLCG1 SYK
TPD52 YWHAZ
IL2 IL21R
RANBP2 PAN2
ERO1L ERP44
MET GAB2
CTNNA1 PKD1
CEP70 RCOR3
NR1H2 RXRG
DAG1 WWP1
HOXB1 EP300
CDK4 MCM2
AES STYXL1
PAK1 CRIM1
EPRS POU2F1
GCLM FTSJ1
AP3B1 ARRB2
FYN AKAP6
HLA-B NAA15
PCNA POLI
SCGB1A1 LRP2
CDC27 PTEN
TNIK MYT1L
CCL21 CCR7
NAP1L1 DLST
DCTN5 NINL
MAPK3 LIPE
TRDMT1 EPPK1
GSPT1 BIRC3
PIK3R1 ANK3
ARPC3 THNSL2

RHOG ELMO2
MAVS IFIH1
NFKB2 RELB
HNRNPF TXNL4A
ITGB2 ICAM1
PPP2R1A CTTNBP2NL
GUCY1A3 AGAP1
DIAPH1XPO6
PTCH1 SHH
RUNX1T1 HDAC8
UBXN11 RND1
CD72 SYK
NUP98 PARP11
OS9 EGLN3
GSPT1 BIRC2
TOM1L1 FYN
ENO2 HABP4
CASK SPATA2
NR2F2 BCL11A
XPA EP300
HLA-B AASDHPPT
PRMT1 CARM1
ISG15 SEPT2
AR BRCA1
CBL KDR
ERBB2 PIK3R1
EWSR1 YY1AP1
UBR1 BTBD2
PGK1 HSP90AB1
RAG1 NCK1
ACTN1 CSRP1
UBC DTX1
NFATC1 PIM1
MAPK6 TNRC6C
ESRRG DAXX
MEF2A PINX1
EMD MCM6
GSN PLCG1
PFDN2 STAP1
MYC DDX20

CSPG5 GOPC
UTP20 KIAA0649
CTNNA1 JUB
PRNP RBM22
PRPF40A CPSF6
IFRD1 MYOD1
EXOSC10 UPF1
DGKZ SNTB1
WASL CRK
EPAS1 EGLN3
GIPC1 ITGA5
AKAP10 PRKAR2A
CAD MAP3K3
PCBP1 SF3A2
RHO GRK5
ARVCF TJP1
HRAS ITSN1
TP53 SMYD2
PRPF6 SNRNP40
THRB RXRG
PTPN6 PTK2B
APC YWHAZ
RING1 PIK3R3
TRAPPC3 TTC15
SMNDC1 SF3B2
EPHB1 GRB7
FOS ZNF652
CHEK1 TP53BP1
PRMT5 DPEP2
CTNNB1 PTPN12
NUP62 IK
BIN1 RIN2
TAF1 GTF2F1
SNTA1 MED8
CSNK2A2 MEPCE
PPAP2CBAG6
ZNF598 ZIC4
LMNA SREBF1
POLR2G RPAP2
EP300 CDC16

XRCC5 ILF2
AES SNCAIP
RAB11FIP3 RAB11FIP4
CDC42 SF3B2
FLNA VHL
PSMD4 UCHL5
CDC42 UNC119
HHEX GATA6
NFATC2 FOXP3
CLU ZNF24
MYF6 ID2
CLTC IKBKE
YWHAZ SH3BP4
KIF5B NDRG1
MAP1B STRAP
TLR4 NDUFA2
ATP5I TAF9
TPM3 C19ORF50
EPHB6 EPHB1
MAPK11 MAPKAPK5
RET SHC1
ACVR2A DAXX
NOS1AP SYN2
CRTC2 SIK3
GNB5 GNG2
ADRA1D SNTB1
ZNF747 SUFU
NFIB NFIC
BIRC5 BECN1
KRT18 CBL
NGFR TRADD
APOE RPS27A
TULP2 EWSR1
MYC ATP6V1H
KEL EWSR1
SRSF6 SRPK1
UBR1 TAC3
MTOR RICTOR
MCC AHCY
TRIM29MAD1L1

MAD2L2 POLDIP2
EP300 PRDM2
SHBG ACTB
USP13 FUNDC2
NFKB1 TNIP3
UBE2I MAPK1IP1L
FAS BTK
KCNJ4 SNTA1
NANOS3 GUCY1B3
HSPA1B AR
RPS29 ARF6
RPL22 VHL
GABARAPL1 ATG4B
MYC GSK3B
POLR3D APEX1
MYC GSK3A
ATXN7 EP300
SRF ATF6
YWHAG MICALL1
NCOA6 TXNRD2
AKR1B1 IKBKE
ATM MCPH1
BCL2 NLRP1
PYGM PACSIN3
CDKN1A CDC6
HR TRIM27
TSPAN4 CD46
CASP4 SMC3
PRDX1 ADRM1
DAPK1 TRADD
EEA1 MAPK14
SRC CARM1
EXTL3 GRB2
BCL2 BAD
NGFR NFKBIB
MYC IPO11
PRMT2 DMRTB1
PSEN1 BCL2L1
SERPINF1 MYOC
PXN REPS2

UBE2L6 SIAH2
PRKCA PA2G4
RPA1 TOPBP1
YWHAZ SH3BP5L
CTBP1 HDAC5
ARPC4 RNF130
CEBPB RUNX2
TP53 BLM
SGK1 SLC1A3
SIP1 LGALS1
CASP3 AKT3
TLE2 BARHL1
IKBKE LSM12
FHL5 KIF17
GOLGA3 TRAF2
HOMER3 ABI3
KIAA0319 SH2B1
PTCH1 HIPK2
IKBKB YWHAB
PLSCR1CRKL
TRIM27TUBGCP4
GRB2 CALD1
SOCS6 TUBA1A
IARS TSC22D1
CUL5 ASB2
EIF3K PRKAB1
PLSCR1CRK
CRKL LTBP4
GSK3B DCTN1
PRPF4 ATP5J2
USF1 GTF2I
HNRNPH2 MEPCE
CSNK2A2 CSNK2A1
PYGB APC
CASP3 PDE10A
DAG1 PRX
OAZ2 OAZ1
WWP1 RTN4
MRPS6 KIAA1377
ADAM15 SNX33

STX1A SLC6A5
TGFBR1 RHPN2
NRP2 PGF
EIF4E EIF4A2
DAZAP2 GPSM1
ASGR1 RBBP6
SLC2A4LNPEP
SELE VCL
COPS5 FBXO17
HOXA1 PKNOX1
GLRA2 GPR108
ZNF24 EEF1A1
FKBP2 BAG6
STX4 STXBP5
IL2RG IL15
TRIM37MAGEB18
PGRMC1 TRAF6
ERCC2 GTF2H1
ATP6V0E1 ATP6V1E1
ATF2 SMAD3
MED7 PARP1
UBE2L3 PRKAB1
DAD1 MCL1
TGFBR1 GNB2
KCNH4 MOBKL3
POLR2F MED19
CASK SDC4
SUPT6H IWS1
SCGB2A1 SCGB1D1
PLCG1 RHOU
IPO8 RANGAP1
XRCC5 NDRG1
ZNF197NDEL1
SCNN1B HECW1
ZAP70 SLAMF6
WASL EVL
SIX3 NR4A3
ETS2 MAPK6
TNF IFNG
UBE2D2 TRIM5

GSK3B TRIM29
UBE2D2 TRIM2
HSP90AA1 PRKCZ
MID1 UBE2D2
CGA LHCGR
BRMS1 HDAC6
TFCP2 HUWE1
PML ARID3A
GRB2 C11ORF41
UBXN1 ASF1B
IFNAR1 STAT3
FUCA1 USP21
RPS9 FTSJ1
MCM3 PLK1
RPS27AKIAA1310
TUBB2B RIPK3
KRT15 KIAA1217
STAU1 RASA1
MSH2 MAX
ITGB6 FHL2
SF3B1 MELK
CTCF SMC1A
CAV1 STOML3
XPO1 AHR
ESR1 RNASEH2A
HLA-B MAGEA1
HLA-B MTPN
NUP98 TNPO1
HNRNPA1 PRRC2A
HNRNPH1 KHSRP
IKBKE CPSF6
MEF2D PTRF
FN1 SRC
PHLPP1 USP12
SKIL ZBTB6
YWHAE RAP1GAP2
DCN ELN
TAF1 TBPL1
SERPINF1 CSNK2A1
MCM7 RBL2

LPL LRP2
ARF6 RABGAP1
IDH3A PSMD4
DSPP PKP4
BDNF SORT1
BMPR1B UBXN1
HDAC1 NONO
PARP1 ZBTB9
RANBP2 RAN
LPL VLDLR
TRIM8 UBE2D4
TBCD IKBKG
RPS15AEWSR1
HMGB1MNT
ESR1 SMARCA2
ESR1 SMARCA4
NF1 SMARCA4
GC PIK3R3
IKBKE TBR1
UBE2L6 SIAH1
ATG5 ATG3
CCND3 NCOA2
DES TRIM63
TCEB1 USP33
OTUB1 CNOT8
NFKB2 REL
SYK GRB2
DIAPH2CENPA
ATXN1 CPSF7
MLH1 EIF2A
RGS2 EIF3E
SGK1 PIGR
SLC50A1 TRPV2
SYK RPS27A
SKP1 SUGT1
SERPINB3 CTSO
GSK3B HNRNPD
ICAM3 PRKCQ
PIK3R1 FASLG
CYB5R3 CYCS

CCDC7 EWSR1
SLC38A1 TUBB2A
PTK2 TNS1
STAC NCKIPSD
SNRPD3 DDX20
STAT3 TRIP10
PCNA DDB1
PDE6G GRB2
CTNND1 YES1
DDB1 AMBRA1
PSMB8 TAP1
DYDC1 MID2
PSMB8 SEC14L3
CDKN1A MAP3K5
KRT15 MAD2L1BP
PSMD3 USP14
PSMD4 NUB1
PRPF4 COLEC11
MYST1 BAZ2A
TAF7 TAF9
CASP2 CSNK2A1
EWSR1 TRIM5
CASP6 NUCB2
CBS HTT
PSMA3 TRIB3
ZBTB16FHL3
HDAC3 RPS27A
SYNCRIP IVNS1ABP
HGS ESRRG
TFCP2 CASP8
RAB9A TM9SF2
PRKAR1A XRCC6
POLR2B IKBKG
NFYA SREBF2
TBPL1 ABCF3
FLNA MAP2K4
PLSCR1YIPF3
IREB2 RPS27A
SERPINB3 USF2
KIAA1267 PLEKHA5

RALA RALBP1
BMI1 RING1
RNASE4 ACTN2
PPARG KIF1A
BRCA1 STAT3
ITGB1 AIDA
UROS UBQLN4
PSEN1 DNER
YWHAQ CCAR1
WWP2 UBC
TGOLN2 GGA3
ZNF263 ZSCAN30
NUF2 EXOC1
CDC42 LMO7
UBE2M TRAF6
TGFA ERBB2
PLIN2 ABHD5
EGFR AP2M1
CDC42 PLD1
HDAC1 PIAS4
PFKL ATN1
MAPT CDK5
RYR1 CALM2
HADHA GABARAPL1
PPM1A DVL3
CDKN1A TEX11
IRAK2 PELI1
MDM4 SFN
PPARG FOXO1
MDM4 YWHAB
EGFR RAB3A
TAL1 CRK
HDAC3 ZBTB16
APC2 MAPRE3
RB1 MNAT1
MECP2 SIN3A
USP11 PKN2
COL1A1 TGFBI
DEPDC1B E2F5
PGR EP300

NR1H3 NR0B2
ARL4D EML4
SNAP29STX4
EWSR1 PRUNE2
ZNF250 HOOK1
IL6 PTHLH
PAX9 TLE2
MSH6 BLM
PAX9 TLE1
TUBB TTK
POU2F1NFYA
MAFF HDAC5
CIAO1 HEATR2
PLCG2 FLT1
RB1 USP4
UNC119 ZFP64
RPS27AMAP4K3
CDC73 MLL3
HES1 FANCE
TP53 WDR33
CTBP1 EHMT1
UNC119 LAMA4
HSBP1 HSPA4
ELAVL4 EWSR1
EPHA3 STAT3
PTK2B RHOU
SF3B3 SF3B2
CALCOCO2 FASTK
MCM7 SSRP1
SUPT3H MED13
PHB TCEAL2
NFASC SDCBP2
ILK RPAP1
WRNIP1 OSBPL10
DCAF7 MAP3K1
EFS LYST
ETF1 PAN3
KRTAP4-12 BEX2
MAPK1 FHL2
LHX2 CITED2

EFTUD2 USP39
GOLGB1 KIAA1377
TNFRSF1B MON2
BCAR3 EEF1D
EIF3J CASP3
TRIM23 UBE2E2
SFN IRS1
TPT1 CDC42
SUMO1 BRE
UBC STAM
ZNF629 ZNF434
DLG1 BEGAIN
FOXO3 GBAS
EZH2 ATP1A1
CDC25A CCNA1
MDM2 UBE2Z
CD3E PTPN22
NAA38 ISOC2
BARD1 BRE
RPN1 WSB2
SMAD9 TRIP12
MED29 MED11
IL12RB1 IL23R
COL4A1 COL4A2
TP73 SMAD3
BCL10 PELI2
HIST1H4I SETD8
DFFA BAK1
CA2 DYNLL1
CAD MAP3K14
STAT5A TSLP
EPB41 VARS
TNNI2 PKD2L1
ALOX5 COTL1
MARS MAP3K1
TCF7L2 CTNNBIP1
SQSTM1 SRRM2
ALDH7A1 DDA1
SCN5A INADL
RAD23B TDG

KIFAP3 SMC3
MYC MCM7
PIK3R1 AGAP2
RARB NCOA3
PLEKHA7 KIAA1543
ABL1 RPP38
LRRK1 C9ORF163
BAG3 SQSTM1
CRY1 TRAF2
PEX14 HDAC1
FGFR1OP2 TRAF3IP3
RXRA ACVR1
UBE2I ZYX
HSPA1B BCL2L12
RRM1 RRM2B
CBLB SORBS3
RAB25 SMAD4
CCM2 PDCD10
SNTB2 MAST2
SMAD1 ELP3
TP53BP1 ATM
SNRPC EWSR1
ITGAM JAM3
PDE6G MAPK3
MAGEA11 NDUFB9
EP300 PAK2
PFDN5 IKBKG
FKBP4 PRKAG2
CD74 HLA-DMB
CD74 HLA-DMA
HDAC2 H2AFY2
RPA3 CNBP
PLK4 TGFBR1
RPA3 TSC22D1
RNPS1 UBQLN4
HELZ SH3YL1
EZH2 EIF2C2
PABPC4 MED31
PPP2CASIKE1
EGLN1 HIF3A

ATOX1 ATP7B
BECN1 PIK3C3
LMNA TOR1AIP1
FXR1 LUC7L2
ORC3 PLCG2
UBE2M CAV1
NUP107NUP160
PIAS4 ZHX1
MATN2 COL4A2
ABL1 CYP4F2
ACTL6A SMARCB1
OTX2 ATXN1
EIF3D ETS1
CDK5 NDEL1
INADL PARD6A
HIVEP3 WNK1
PRPF40A SRRM1
PSMD4 TRAF6
AGFG2 EPS15L1
LMNB1 SPTAN1
PRRC2B EHMT2
XRCC5 TFCP2
ALDH2 HSPE1
EGFR FAH
ESR1 CDK8
ARCN1 COPZ2
MAPK1 SCRIB
AK2 MEPCE
YWHAG SRSF4
ABL1 SH3BP2
SKP1 KDM2A
TIMP3 KDR
ARSE C19ORF6
AP2A2 DAB2
LGALS1 CDC42
YWHAZ REPS2
NOTCH2 MAML2
STAT6 STAT2
HOXA1 CHIC2
GNA13 ARHGEF1

HSF1 CAMK2A
H1F0 KPNB1
USP10 CELF1
ONECUT1 FOXA2
SLC25A5 RELA
PPIB UBQLN4
RAB8B TES
HDAC3 HDAC4
PNP TFB2M
STRN CCT5
LCK ADAM15
RCC1 HIST2H2BE
VAPB STX4
DYNLL1 SHROOM3
THRB NRIP1
BFSP1 BFSP2
CALCOCO2 ZNF408
PCBP2 POLR3H
GABARAP BRP44L
CUL5 CISH
MCL1 BIK
CUL4B VPRBP
RAP1GDS1 MBIP
CDK8 MED23
CDK1 USP16
TP53BP2 MAGI1
NUP214RAE1
TAF10 PCBP1
RB1 NEFM
TFRC TRAF6
NAP1L1 TRAF2
ID1 CAV1
MAPK1 C1QBP
HSF1 CHD3
PML ZNF506
TJP3 CLDN1
TKT ACTR6
PFN1 DNM2
PPM1D H2AFX
SPRY2 RAF1

CDK9 SART3
CBX1 BAP1
KRT10 NFKB2
ABL1 CNTNAP1
MADD NPDC1
PPP1R3D FYN
TBP BCL3
MTHFD2 PSMD13
EXOC8 RAB3IL1
GRIK1 DLG4
WRNIP1 USP25
HAP1 KIAA1377
GNAI2 MTNR1A
ID3 TSC1
KLHL26 ACIN1
PARP1 TCF4
RPS4X MEPCE
TSSK4 SMURF2
ERCC6L RB1CC1
ITGB5 PDIA3
UBC TAB2
PTBP1 QKI
NFKB1 SMG7
YWHAH PRKCZ
PRKAB2 STIM2
MYBPC3 SMURF2
PRNP NHP2
ETS2 CDK10
NAP1L1 FTSJ1
CASP3 KCNIP3
PRKCE BTK
CDK9 CDK5R1
MCC APEX1
MEN1 GFAP
ALDH1A1 BRCA1
IKBKAP PBX2
DSPP PKP1
COPS4 KLHL13
SERPINI2 UBQLN4
DLG1 LRRC1

EFNB1 PTPN13
CSNK2B CD163
ATR PA2G4
TUBB GRM1
BUB1 APC
GNAI2 RIC8A
SCN5A NEDD4L
HSF1 SMARCB1
AXIN1 JUP
FYN CBL
EP300 ZBTB17
PRNP HOXA1
CTNNB1 CASP8
SNRPD3 GEMIN7
NR4A1 EP300
ATP2A2 S100A1
GPS2 HDAC5
RB1 PAX6
PGR RBM39
PPARD EP300
PLCG1 GNB2L1
COX5A TH1L
SSNA1 SPAST
PINX1 DDX21
NRAS SHOC2
HSPH1 DYNLRB1
SRGAP2 ATAD3A
LCK UNC119
HSPA4 MARK4
CDC42 CDC42EP5
CFH DMP1
RB1 DNMT1
TUBB MAP3K1
BNC1 PICK1
POU1F1PPARG
APC PPP2CA
TBP MCM2
PCNA ING1
SYT9 NRXN1
SUPT5H KIAA1377

POLR3D HOXC9
IMMT ASCC2
PAX6 SIX3
PTPN11 DDR1
CFLAR CASP7
CFLAR CASP6
FBLN1 SMAD4
ELF3 MED23
MCC FKBP3
HAPLN1 VCAN
EPRS ETS1
SF3A1 TNFRSF10D
SMURF2 ANAPC5
ANKRA2 AHRR
RANBP2 RPS6
UBE2I EXOSC9
PTPRC TEK
H2AFX XRCC1
TFCP2 RBBP6
IARS TRAF6
PLCG1 FCGR2B
PLCG1 FCGR2C
ATN1 AES
SLIT3 CAPN1
RPS19 NFKB2
ZDHHC3 EWSR1
MRAS RAPGEF5
SAP18 DNAJA1
NFYC DST
HNRNPH1 CELF1
ATR CEP164
FOS CACYBP
ACTR2 BAK1
WT1 U2AF2
MTOR GPHN
COL4A1 FBLN2
FGFR2 STAT3
TUBB2B TRAF6
PRKCQ CARD11
APOB PDIA4

PRKD2 RRBP1
CRKL ABI1
DHX30 MYBBP1A
HDAC2 HMG20B
MAPK3 PRKCZ
NR4A2 COPS5
SRC PLD2
LRRK1 RIMS1
POLR3D HOXA10
PHB DHX36
MED13 MED19
SREBF2SMC3
PEBP1 SMYD2
MDM2 MED1
PDCD4 BTRC
TAF6 TAF9
EGFR SH2D3A
CCL1 CCR1
ITGAM PLAUR
ITGB1 CD47
POLR3C GTF3C5
PAF1 LEO1
SRSF3 MEPCE
TDP2 TRAF6
IMMT CCDC113
MAX CSNK2A1
TGFB1 DIP2A
ESRRA NCOA1
MAPK3 SNCA
HSBP1 HSPA1B
GNA15 LTBR
EIF1B TAGLN2
HNRNPA3 CNBP
ASF1B C15ORF41
DAB2 LRP2
IGFBP3 GTF3C1
POLR3C GTF3C3
GPS2 WNK1
MEF2C COPS5
HNRNPH1 DDX17

VRK2 KSR1
GGA3 SYNRG
CDK14 CDKN1A
RBBP7 BRMS1L
BMPR2 CCDC89
HDAC3 RELA
RXRA NPAS2
MID1 PPP2CB
SASS6 CEP250
SUMO2 CUL3
EPOR PIK3R1
RNF181 UBE2D4
YWHAG SAMD4B
FES STAT3
UBC TNFRSF1B
AXL GRB2
ZNF259 SNUPN
OPTN TBC1D17
USHBP1 DYDC1
RAD51 WRN
CUL4A DCAF10
KRT1 IVL
SRC CDKN1B
CCDC158 GPSM1
MAP3K7 MAP2K6
AXL RPS27A
TH1L HDAC11
CREB1 MAPKAPK2
AHSG CDC42
UBE2I RNF4
LGALS3BP PHB2
TLE4 POU2F1
PDE6D GNAI1
PIK3CASLC9A3R2
NAA38 USP39
NBN WRN
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EP300 DTX1
TBP REST
BUB3 BUB1B

UBE2I PHC1
ABCA1 LIN7B
KHDRBS3 NUDT18
PTPRB TNC
DUSP1 RPS27A
RB1 PRDM2
ACTB WASF1
RAB4A CD2AP
COL2A1 COL9A2
EIF3H EIF3M
TP73 MDM2
IKBKE CDC37
TSC2 SMAD2
VIM NIF3L1
FANCA ALDOA
C3 ASF1B
MYL9 TP63
COL2A1 COL9A3
KPNA4 ARRB2
NFATC1 KAT2B
RGS3 MAPK12
GTF2E1MED21
KRTAP4-12 KRTAP3-2
THY1 ITGAM
GSK3B TSC1
SNRNP70 SMAD3
ETS2 ZMYND11
EPHA3 CALM2
U2AF2 SRPK2
TAF4 TCF12
EIF1B TALDO1
XRCC5 SUPT4H1
ZBTB16PMAIP1
BRCA2 KAT2B
UBE2I GTF2I
STAT3 NCOA1
IARS MAGED1
AKT1 MAP2K4
FLNB NCK1
TYROBP NCR2

ARF6 C20ORF4
HNRNPH1 MBNL1
ZNF250 KRTAP4-12
NOL3 CSNK2A1
AP2A1 PICALM
PTK2 RIPK1
CD2BP2 DDX23
SART1 USP39
AMPH SH3GL2
TP73 CCNT1
SKP1 BTRC
TIMP2 MMP8
ARPC3 PRMT1
SNAPIN SNAP25
CCND3 DMTF1
KRT15 NUDT18
RET SRC
RAB2A GORASP2
RPL5 RRP1
TAF1C POLR1E
MCM5 CDC5L
TMEM109 TRAF6
PDCD6 FASLG
GTF3A GTF3C2
BCAR1 TNK2
HCFC1 THAP7
CDK5RAP2 SENP2
AIRE HSPA5
VAV1 NEK3
TCEB2 PAN2
TOB1 CNOT6L
ZNF182 SAP30BP
MAGEC1 MRPL15
ARPC4 TH1L
CASP6 UBE4A
SDCBP GRIA4
FLII MYD88
FES HSH2D
DYNLL1 PARD3
VHL NR4A3

HGS PFKM
EGFR PLCG2
TNKS FNBP1
NCOR1 NR1H2
GTF3A CHMP5
ATP5C1DPP3
RAPSN DAG1
POP5 RPP25
PPM1B ARRB1
KAT2A MED17
EPB41 PHB2
PRKCA TRPV6
EXOC1 MACF1
NUP62 AHCTF1
RRAS2 RALGDS
TNFRSF14 C2ORF47
ACTB TSC1
LYN ITGA4
PFN1 VASP
JAM2 PARD3
HMGB1TXN
EPX PLCG1
ATP2A3 BRF2
CIT GPRIN1
PPP4C PPP4R2
MAP2K1 PARVA
ZBTB3 IKBKG
ATAD3B C20ORF24
PTBP2 QKI
ERBB2 CD82
DMD CADPS2
RAD51L3 DCD
NR4A1 RXRG
RNPS1 SRPK1
SREBF2KIF5A
NR2F1 NCOA3
EXOSC10 MPP6
MAPK1IP1L EWSR1
FLII PRMT1
CTTNBP2 STRN4

IMMT STMN4
MDM2 USP7
CLYBL SH3KBP1
AFF1 AFF4
EPS15 AGFG1
LAMA5BTBD10
ABL1 LRBA
TGFB3 TGFB2
CEP76 SALL2
PPP1R16A CDH24
GUCY1A3 STUB1
PSMB5 PSMB3
PSMB5 PSMB2
PBX2 CCDC88B
EXOC2 EXOC1
PIK3R1 SREBF2
TRIP12 USP7
HSPA9 TBK1
APBA3 EGFR
COIL DNAJA3
CCT5 IMMT
ALS2CR11 TEX11
NR3C2 PROX1
MIB1 UBE2W
BLM SMC1A
PTN PPP2CA
PIK3R1 WASF3
HLA-DQA1 UNC119
CEBPB KCNH4
PTPRB CTNNB1
CHMP2A PCBD1
UBC GRB2
MLL TAF9
UBE2D3 DTX3
RRAS2 RABAC1
DNAJA1 NFKB2
ID3 RND1
CASP2 CASP10
ADRBK1 BDKRB2
CSNK2A1 TCF7L2

POLR2C GTF2H1
XRCC5 CHD1L
SORBS2 DLGAP4
KRT85 CDK12
NUAK1 S100A9
NANOS3 RNF31
IL20RB IL20
BCL6 BCL6B
HLA-B EXOSC4
LTBR BIRC2
HTATSF1 SNRPB
GAPDH SLC2A4
RAD52 WRN
RARB NCOR2
HLA-B NACAP1
JAK2 PPP2CA
RNPS1 RANBP9
RAF1 RBL2
CTBP2 RAI2
TOM1L2 RNF11
LRP2 SNX17
KRTAP4-12 MRPL4
YWHAZ DCD
IMMT FEZ1
KCNA3 DLG4
PIAS4 LEF1
AKT1 APLP2
FXR2 CALCOCO2
DAZAP2 ZNF581
INSR MAD2L1
NUP62 IK
H2AFX HIST2H2BE
RHOA CNTNAP1
RAC1 NOXA1
YY1 PRMT1
CDK6 MCM10
EIF1B EIF3G
SNAP23 SYN2
VCP RPS27A
ARFGAP1 CYTH2

SOS1 KDM2A
NUP62 TRAF3
SMARCC1 SIN3A
AIF1 ACTA1
MLH1 PTPRH
ZBTB7A NCOR2
MTA2 HNRNPD
TOM1L1 CLTC
USP1 HSPB1
APLP1 HLA-DQA1
MED13L MED19
TRAPPC3 TRAPPC6A
PAXIP1 MAST1
PABPC4 SETDB1
GAS2 CAPN2
EWSR1 EPT1
THRB ACVR1
SMAD4 PIAS3
AGTR1 DNAJC14
CTNNA1 TJP1
LCK GRAP
GAPDH CCNB1
RNPS1 CCNL2
MAP3K10 MAPK8IP1
RNF220 USP7
HIST1H2AL GADD45A
PJA1 ASCC2
NR3C1 SRSF5
TK2 TLE1
TRIO FLNA
SRC POU2F1
RPA1 MCM2
FYN IL3RA
MAGEA11 TCEA2
TNFRSF1B DDB1
WNK1 SRRM2
PIAS2 PARP1
NFYC ATF6B
UBE2D2 POLL
GATA1 HDAC4

MTNR1B GNAI1
A2M IL10
FYN CNTFR
NCBP2 NCBP1
HLA-DQA1 CD74
CD5L CD40LG
HSPA1B BCL2
NR3C1 TRIM28
CDC37 TNFRSF14
CDC25B MELK
DHRS1 MDFI
NUDT18 TIFA
MITF BMP7
NFKBIE IARS
PIK3R1 GAB2
YWHAZ SUPT6H
USP14 PSMD13
ARF6 PFKP
CDH9 CDH7
ABL1 BMP8B
EPOR PTPRG
LTF MUC7
ADAM15 SH3GL2
ESR1 RARA
EGFR VAV1
ESR1 AR
PDGFRB PTPN1
CTBP2 EP300
SAP18 ARMC6
TRIP6 RERE
CDC37 GCDH
EIF1B ARPC4
EPOR PTPRB
CACNA1A CABP1
LTBP4 TRIB3
RPA1 ASCC2
EP300 GPS2
SH3BP2VAV3
ELL SIRT2
KRT2 EVPL

ITGB5 NUMB
FOS MARK3
SHBG DSTN
CAMK1CAMKK2
CDC34 FBXO4
CDC34 FBXL3
CDC34 FBXW2
DSPP CASP10
PLRG1 SRRM1
UBE2D3 SIAH1
DCP1B DCP1A
CPSF3LMDFI
RAB4A DYNC1LI1
MAP3K7 IL17RD
ARF6 PLD1
ACTG1 NFKBIB
SNAP23SNAPIN
MPP5 MPP4
KRT18 YWHAG
EPHA3 EFNBI
SIKE1 FAM40B
NF2 VPRBP
SOS1 SPTAN1
UBC TAX1BP1
CCNB1 TSC1
NDUFB1 EWSR1
TGIF1 CTBP1
MAGEA11 SH2D4A
HOMER1 RYR2
TAOK1 DAXX
TFG KIAA1377
RBBP9 RBL1
RRAS2 ACVR1
EDN1 CMA1
CDK1 EPN1
ARL4D SMURF1
PLA2G4A KAT5
HMGB1PRKDC
DSPP EVPL
HSPG2 GF11B

RANBP2 TGFBI
NPM1 CENPF
ARPC3 WASF2
ZNF43 APC
SYK TUBA1A
MAPK3 PRKCD
MLH1 MRE11A
ACTG1 TRADD
PKM2 ARRB1
SMAD2 RASL12
MBP PLP1
AR TMF1
AGTPBP1 CBY1
ASF1B MRPS7
TRIM24 CBX1
LCK SQSTM1
SUMO2 TP53BP2
CASP3 BIRC7
SF3A1 CDC5L
REL NFKB2
TBP PAX5
STAT3 HES5
RAC1 KTN1
USP11 XIAP
VAMP8 STX8
KLF1 SMARCE1
YWHAB PRKDC
URM1 ASCC2
VPS37A TSG101
DCTN2 RPGR
PARP1 TCF3
TERF2 PPP1R10
PRPF40A ABI1
UBE2N BIRC3
RPS6KA5 NR4A1
PTGER1 PTGDS
TKT HLA-B
RPS24 TAF9
NUDT18 EVI5L
SMAD7 PIAS1

LPXN LIMS1
PSMC2 PSMD13
CTNNA1 FAM84B
CLTC PLCB1
CD40 CD40LG
MEF2A SMAD4
SH3GL2 SLC17A7
PPP1R15A HSPA1B
COL3A1 THBS1
ERBB2 MATK
GABRB1 C1QBP
SAP18 GSPT1
RFC1 BLM
RBFOX2 RBFOX1
ID3 FHL2
TSC22D1 IPO9
HDAC3 HIST1H4I
FLT1 CRK
AES SIX3
DPM2 PIGP
PRNP CIRH1A
MPST RAE1
FBLN1 MFAP5
VHL RHPN2
BAG6 B2M
PLXNB1 RHOA
PLXNB1 RND3
ERBB2 ABL2
BRCA1 ACACA
GJB6 GJB2
TBP TAF6
TRIM28UBE2U
DNM2 SLC7A9
ERBB2 TEC
XPO1 NUP214
ERBB2 TXK
HDAC7 IKZF3
ANXA1 USPL1
MCF2L RHOA
BIRC3 XAF1

TNFRSF14 PRMT1

NR5A2 UBE2I

FANCA DAXX