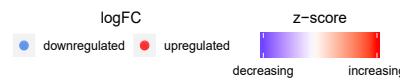
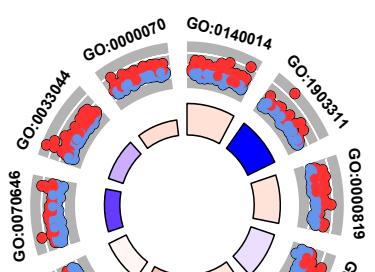


ID	Description
GO:0034330	cell junction organization
GO:0034329	cell junction assembly
GO:0051493	regulation of cytoskeleton organization
GO:0007015	actin filament organization
GO:0045216	cell-cell junction organization
GO:0007043	cell-cell junction assembly
GO:0140014	mitotic nuclear division
GO:0042119	neutrophil activation
GO:0043312	neutrophil degranulation
GO:0002283	neutrophil activation involved in immune response

ID	Description
hsa05132	Salmonella infection
hsa05130	Pathogenic Escherichia coli infection
hsa05131	Shigellosis
hsa04520	Adherens junction
hsa04810	Regulation of actin cytoskeleton
hsa04360	Axon guidance
hsa04530	Tight junction
hsa05100	Bacterial invasion of epithelial cells
hsa04210	Apoptosis
hsa04510	Focal adhesion



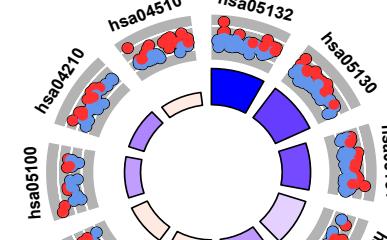
## IGF2BP2



ID	Description
GO:0140014	mitotic nuclear division
GO:1903311	regulation of mRNA metabolic process
GO:0000819	sister chromatid segregation
GO:0019058	viral life cycle
GO:1902850	microtubule cytoskeleton organization involved in mitosis
GO:0034330	cell junction organization
GO:0007059	chromosome segregation
GO:0070646	protein modification by small protein removal
GO:0033044	regulation of chromosome organization
GO:0000070	mitotic sister chromatid segregation



## IGF2BP3



## IGF2BP3

ID	Description
hsa04110	Cell cycle
hsa05132	Salmonella infection
hsa04144	Endocytosis
hsa04218	Cellular senescence
hsa04120	Ubiquitin mediated proteolysis
hsa04520	Adherens junction
hsa05205	Proteoglycans in cancer
hsa05130	Pathogenic Escherichia coli infection
hsa04510	Focal adhesion
hsa05160	Hepatitis C



## IGF2BP3

Table S1: Primers and SiRNA sequences used in this research (5'-3')

Name	Sequence
IGF2BP2 forward	5'-TGGCTTGGTTGGAAGACTGATTGG-3'
IGF2BP2 reverse	5'-GCCTGGGTGGATGAAGAGATTG-3'
IGF2BP3 forward	5'-GCTCTATCAGTCGGTGCCATCATC-3'
IGF2BP3 reverse	5'-CTGGTCACGAGGGACAACAACCTTC-3'
GAPDH forward	5'-AAGGTGAAGGTCGGAGTCAAC-3'
GAPDH reverse	5'-GGGGTCATTGATGGCAACAATA-3'
IGF2BP2 SiRNA	TCGGGTAAAGTGGATTGCATGG
IGF2BP3 SiRNA	AAGAGACAAAAAGTAGTTTTTC

Gene	Related Genes	Correlation
IGF2BP2	E2F8 KITLG MREG WNT7B ARPC5 AK4P1 PADI1 SLC22A18AS RELB RAD51AP1 CLDN12 MAIP1 GPR157 CAMK2N1 UBQLN4 NTN4 TSPAN5 VPS9D1-AS1 ARAP3 HNRNPL PPP1R18 BMP4 ACTN1 EIF3I ANKRD10-IT1 LHB RND3 TNIK TMEM144 AC007283.2 LGALS4 TNIP2 ARHGAP11A ZNF341-AS1 NFATC2IP AMMECR1L NFE2L2 FAM111A BCL3 PYCARD GCKR AC026470.2 VGLL4	Positive

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CHEK1  
WFDC2  
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SUMF1  
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SUN1  
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SBNO2  
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TRAF4  
IL17RE  
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GLUD1  
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SEMA3B

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TFPI  
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IERS5  
CAV2  
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GPC4  
TSPO  
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ASPH  
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KARS  
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RASEF

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PABPC1  
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PLIN3  
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VILL

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TSKU  
ELOVL1  
SMAGP  
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CORO2A  
ETV4  
TOP2A  
GRTP1  
TJP2  
TRIM8  
KRT8  
F2RL1  
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GALNT3  
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FGFRL1  
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BCL2L12  
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TGM2  
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COL17A1  
EFNB2  
H1F0  
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TAF1D  
GJB2  
ETV6  
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ABTB2

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DKK1  
PROSER2  
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LAMA3  
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ABCC3  
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RAC1  
TPX2  
YBX3  
B4GALT5  
HK1  
MGAT4B  
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GALE  
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HMGA2

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HK2  
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RALB  
RELA  
FOXL1  
TGIF1  
KDM5B  
NECTIN4  
CMTM7  
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CEP55  
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ITGA6  
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TLDC1  
MVP  
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LIPH  
HDGF  
GRHL2  
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PLCB3  
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F11R  
RHBDF1  
EPHA2  
LDHA  
OSBPL3  
ITGA3  
ACTN4  
ANXA2  
SERINC2  
KRT19  
CDH3  
EPHB4  
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GPRC5A  
PLEK2  
SFN  
PRSS22  
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FGD6  
PRSS8  
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PACSIN1  
SCML2  
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ZNF491  
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NCALD  
DPP6  
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GSTA4  
NOL4  
FAM117A  
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PNMA8C  
GPR150  
DUSP15  
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GPR162  
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PHKB

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FAS  
ASCC1  
BBX  
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FOXC1  
BMP2  
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STYX  
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ASCC3  
AC026356.2  
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PRKCZ  
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SCUBE3  
MACF1  
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GDAP2  
BAG3  
ETFA  
SNW1  
NOMO2  
LRRC6  
STX3  
OSBPL1A  
TUBA1B  
EPS8L3  
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GCSH  
CCDC15  
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DSCC1  
MCM7  
AGR2  
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SPIRE1  
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PLEKHM1  
IRX5  
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ZDHHC20-IT1  
MBTPS2  
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PI3  
SEMA4G  
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FOXC2  
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SRGAP2  
PSMC2  
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ALAS1  
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ELF3  
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CANX  
MKRN2  
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GK5  
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RBM47  
MTOR  
MTCH2  
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TUBA4A  
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SUZ12  
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THRΒ  
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DNAJA3  
EXOC8  
YIPF4  
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NEMP1

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RNF7  
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LINC00630

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MIGA1  
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KLHL30  
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GINS4

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COL22A1  
FAM49B  
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UBXN2B  
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TMBIM6  
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FAM118B  
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LINC01873  
EIF4H  
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UNC5B  
TAGLN2P1  
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DNM2  
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TAF5L  
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HPCAL1

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EMBP1

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HIPK1  
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KPNB1  
ANTXR1  
PROSER3  
MIR135B  
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LSG1  
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PTTG1  
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NPFFR1  
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PRKDC  
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SCYL2  
VGLL4  
OR7E14P  
YME1L1  
TNNT1  
GFPT1  
VANGL1  
DHX9  
PPP1R15B  
SLC52A3  
NCAPH  
CLSPN  
SF3B1  
ESRP2  
MYO6  
GNG12  
PAK1  
DNAJA2  
NUP37  
TCEA1  
SATB2  
PLOD2

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LRRC8A  
DTX4  
SNX12  
RARG  
EHBP1  
METTL15  
7-Mar  
YOD1  
PTGS2  
KDELR2  
RTN4  
GJB2  
ANO6  
PSMD10P2  
HSPD1  
PSME4  
NUP93  
CD46  
DNMBP  
CDC42  
TP73  
MRPL3  
NIF3L1  
VDAC1P2  
GBP2  
TMEM45B  
SP140L  
ANXA1  
FOXM1  
EIF2S2  
HTR1D  
EHF  
CEBPZ  
ERBB2  
RPSAP52  
C5orf30  
AMMECR1L  
SH3PXD2A-AS1  
MIPOL1  
SNAP23  
IGSF3  
ARPC1A  
SEC24A  
FA2H

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LY6E  
NUF2  
PAICS  
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ZNF460  
MOSPD2  
PSMC1  
OTUD7B  
RRAS2  
ICK  
BICD1  
SRC  
S100P  
KARS  
MAP3K13  
LONP2  
CDR2  
HIST1H2AC  
NCAPG  
CDC25C  
ACTN1  
CDCA4  
PNPLA1  
AP1AR  
DYNCL1I2  
PPP1R13L  
XPR1  
JUP  
ESPL1  
ADIPOR1  
TRIP10  
MARK2  
QTRT2  
POGK  
FAM111B  
SLC30A7  
MUC1  
PLIN3  
GDE1  
TWISTNB  
UBASH3B  
KRT8P35  
IGSF9  
ZNHIT6

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DPY19L4  
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DIAPH2-AS1  
STX6  
KRT19  
TRAM1  
G3BP1  
COPB2  
AC022150.4  
UCHL5  
RFWD3  
5-Mar  
CREG2  
ARHGAP12  
RBBP8  
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PIEZ01  
SLC7A6OS  
CCNB2  
PPFIA1  
CEACAM5  
PAFAH1B2  
ENO1  
ATL3  
SDE2  
ITGB5  
GFM1  
LINC02086  
TMEM159  
ANXA2P1  
SGO1  
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CCT6A  
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RSPRY1  
IWS1  
RAB43P1  
LIMS1  
HKDC1  
DLG1  
SMG1  
RNF141

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CCT5  
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DESI2  
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HOXB7  
PLS3  
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SYTL2  
APOL1  
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AP003555.3  
CERS6  
PLBD1  
HDAC1  
HOXA6  
ERLIN1  
MRPL19  
PTGES  
S100A16  
PRR11  
FRRS1  
USP54  
ZWINT  
DPP3  
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UCA1  
ARF4  
RASA1  
NAPG  
IFI27  
CCNB1  
SEMA3C  
GBP6  
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RASEF  
PKP3  
INTS13  
MRPS35  
RIPK2  
OCLN

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CKS1B  
KRT7  
XDH  
CBFB  
OASL  
MTDH  
USP14  
LY6E-DT  
PCSK6  
DYNLT3  
RNF39  
SH3TC2  
RLF  
SRFBP1  
KDM2A  
ATP13A3  
KLF7  
SERINC3  
KHNYN  
TMCC1  
GINS1  
EXOC1  
TNFRSF12A  
ANXA2  
TAP1  
OLA1  
RCC2  
AL590723.1  
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UBE2K  
PRR13P5  
PRSS22  
CPNE8  
GNAI3  
MPHOSPH6  
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TANC1  
GREB1L  
BROX  
F11R  
LDLR  
BMPR2  
EMB  
UBE2C

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STEAP1  
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RRAS  
DARS  
CDYL  
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SPAG1  
FAR1  
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TMEM182  
KHDRBS1  
YARS  
PNPT1  
LNPK  
PRKAA1  
WWP1  
KIF15  
TWF1  
TCEA1P2  
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UBE2V1  
TRAF3IP1  
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KRT80  
P4HA1  
UBE2E3  
HK1  
WEE1  
BOLA2-SMG1P6  
GART  
HNRNPR  
OGFOD1  
KNOP1  
TROVE2  
USP10  
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ELOVL6  
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OTUD6B

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XYLB  
RP2  
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TUFT1  
DPY19L1  
EIF2S1  
RNF2  
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MAML2  
SPTBN2  
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SMARCC1  
OPA1  
GPR39  
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SLMAP  
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GULP1  
NEDD1  
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SERTAD2  
NFAT5  
RAD18  
ROCK2

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TTK  
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GALNT10  
ZNF488  
CLDN4  
OXR1  
ATP5MC1P6  
NUDCD1  
KIF2C  
CDC20  
PSMC6  
ITGB8  
TINAGL1  
ABCC1  
MROH6  
UHMK1  
DIAPH3  
E2F8  
SLC13A5  
WDR44  
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WDR26  
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LGALS3  
FANCA  
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B3GNT3  
SGO2  
TTYH3  
CSNK1A1  
BHLHE40  
FERMT1

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EPHA4  
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PMM2  
GNA15  
OLA1P1  
ESYT2  
YWHAB  
KPNA7  
VRK2  
C6orf132  
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HIST1H3H  
PAQR4  
SP100  
MIR196A1  
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ABI1  
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KLF6  
KNTC1  
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MIR4653  
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HOXB9

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PATJ  
ARAP2  
ESPN  
SYPL1  
ACSL5  
TANK  
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NUMB  
U2SURP  
DLAT  
SOX4  
LSM12  
NCEH1  
HNRNPLL  
MPP5  
AZIN1  
PLCD3  
NDC1  
JPT2  
ELOVL1  
TFAP2A  
N4BP1  
UTP4  
NUSAP1  
CLDN1  
FARP2  
PRC1  
FHL2  
CKLF-CMTM1  
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LINC02577  
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PDHX  
DUSP6  
LANCL3  
HOXB-AS4  
IQGAP3  
RAP1B  
MGLL

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COQ10B  
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CDH1  
TMTC2  
TJP1  
VDAC1  
ITGB4  
OAS1  
MYO1E  
ARL6IP1  
CAPZA1  
RRM2  
XKR9  
EXOC6B  
ZDHHC9  
SMAD3  
PUM1  
TMEM105  
PELI1  
HPS3  
NAA50  
IQANK1  
WDHD1  
HIST1H2BC  
DDX60  
LSM12P1  
LRRC8E  
PTPRF  
RYK  
RNA5SP18  
CMTM1  
MTHFD1  
NPC1  
STK39  
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ZFP91  
SPRED1  
HTATIP2  
VASP  
TFG

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TSPAN1  
CARS  
YY1  
BCL2L1  
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DNAJC13  
PHLDA1  
MINDY2  
AURKA  
VPS26A  
BZW2  
PLEC  
EPB41L1  
DSG2  
CYB5B  
ZNF267  
DEPDC1  
MST1R  
P2RY2  
TMEM87B  
ITPRID2  
PPFIBP1  
YWHAZP3  
GRHL2  
TAF1B  
PDIA6  
PPP3R1  
PXN  
DDX21  
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LYPLA1

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C1orf112  
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GAN  
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RNF149  
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TRERF1  
IQGAP1  
IGFL2-AS1  
JAG1  
NDFIP2  
MYL12A  
SKIL  
PGK1  
STAMBP  
PDCD6IP  
TMEM41A  
BFAR  
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AHNAK  
TRAF7  
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MGAT4B  
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SPTLC1  
HDGF

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SMNDC1  
COL6A4P1  
AC124947.2  
MYD88  
FAT1  
LIN9  
ANTXR2  
MSH2  
RAB1A  
HACD2  
MYH14  
AFAP1  
SGMS2  
KITLG  
GCC2  
YAP1  
CASK  
CTTN  
C16orf87  
CDK1  
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RBM7  
MELK  
GORASP2  
SFN  
TMEM185B

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TP53BP2  
TMEM87A  
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KCMF1  
HOXA13  
PLAG1  
GPSM2  
MUC4  
STYK1  
MTFR1  
B4GALT5  
RAC1  
FBXO28  
NCL  
ZNFX1  
PIAS3  
DYNC1I2  
EREG  
HIST1H4H  
PLA2R1  
KLF5  
AK4  
BARD1  
SEPT10  
GPRC5A  
PRICKLE3  
JRKL  
ITPRIPL2  
ETV3  
RIF1  
DHX15  
HCAR1  
EIF2AK2  
GJB5  
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LCOR  
TET3  
FMN1  
KCNN4  
FOXQ1

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EPS8  
BAIAP2L1  
RALBP1  
CTNNB1  
ARHGAP11A  
KCNK1  
PRMT5  
AC103702.2  
GSKIP  
SLC35F2  
NT5C2  
SDR16C5  
BRCC3  
LY75  
SP3  
HRH1  
ADAM10  
CDA  
ABALON  
CBX3  
IARS2  
SPDL1  
DKK1  
RHOF  
KNL1  
TNS4  
NCK1  
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AIDA  
MAP4K4  
PTK6  
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PLS1  
CAP1

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ARHGAP21  
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ANXA2P2  
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POF1B  
CCNK  
RACGAP1  
STK26  
DUSP11  
ZDHHC7  
SLC35F5  
PIP4K2C  
SUN1  
HMMR  
SLC35A2  
OPN3  
SLC5A3  
MAPK6  
EPHB4  
PHF6  
KIF20B  
EGFR  
UHRF1  
HNRNPF  
PGM2  
XPO1  
RMND5A  
FAM3C  
TES  
TPM3  
PLA2G16  
BUB1B  
DDX18  
SPTLC2  
BAK1  
PERP  
KIF4A  
TMBIM1  
PALB2  
MMADHC  
AL137782.1  
FAM3C2  
NHS  
CCNYL1

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BCL9L  
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ANKIB1  
CDCA8  
RALA  
MBOAT2  
ATL2  
SSB  
STK24  
HIST1H2AI  
CTNNA1  
AL627402.1  
PSMD1  
CTTNBP2NL  
DIAPH2  
LACTB2  
KIF11  
ZNF185  
COPB1  
STK38L  
SPOPL  
CKAP5  
FZD6  
FNDC3B  
LAMB3  
AC063952.1  
CASP8  
PCDH7  
MAL2  
SP1  
KIF23  
CDK6  
CAPN1  
BAZ1A  
ZNF143  
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B3GNT2  
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INAVA  
EIF4G1  
SLC2A10  
OAS3  
KIF20A  
CHML

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INCENP  
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ABTB2  
WDFY1  
ARL5B  
SOWAHC  
MXD1  
CDC73  
COL17A1  
G2E3  
FOXL1  
RCOR1  
ACTR3  
ACBD3  
LDHA  
E2F7  
TBL1XR1  
CKAP2L  
CEP55  
CMTM6  
PTBP3  
HEATR1  
UGT1A10  
PLEK2  
BLZF1  
PPP3CA  
ATP11B  
INSIG2  
DIAPH1  
SMC4  
NMI  
HIST1H2BD  
NIPAL1  
AMMECR1  
LMO7  
RAB5A  
ATG16L1  
FAM83B  
YWHAZP2

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TPX2  
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BCL10  
CAPN2  
PARP4  
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ELF4  
SPRED2  
OVOL1  
ARF6  
STK3  
PAK2  
KLF3  
TMEM241  
ACTR2  
ITGA3  
ZC3H15  
VEZT  
NIP7  
SNX6  
HOXA10  
LAMC2  
HJURP  
IRAK2  
AC106900.2  
TMEM123  
LINC00941  
GALNT3  
AMIGO2  
NMD3  
PCDH1  
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EPPK1  
ALMS1-IT1  
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MAP4K3  
YWHAZP4  
CENPF  
RAB6A  
BUB1

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PLEKHA7  
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CRYBG2  
ASPM  
RHPN2  
PKN2  
BACH1  
PDCD10  
TMC7  
PATL1  
SLC35A3  
NRAS  
LIPH  
AHR  
PGM2L1  
TUBA1C  
LRRC1  
UBA6  
KCTD5  
HK2  
AVL9  
SLK  
CAST  
IPO7  
UEVLD  
PSEN1  
ADGRG6  
PAWR  
CHMP2B  
SMURF1  
PSMD7  
NEK2  
AP1S3  
IL1RAP  
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MALL  
PPP4R1  
OSBPL3  
PEX13  
EPHA2  
ARNTL2

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HMGAl  
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OXSR1  
YWHAZP5  
REEP3  
STAU1  
LASP1  
TOP1  
NEK7  
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SKAP2  
TOP2A  
DLGAP5  
ZDHHC5  
RAB10  
STRN  
IRS1  
ARHGAP32  
ZNF217  
RALB  
ARL6IP6  
RPE  
INPP4B  
ITPR3  
CTNND1  
RIOK3  
YES1  
TAX1BP1  
VPS35  
PARD6B  
SINHCAF  
ADSS  
PRKCI  
SRPK1  
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ATP2C1  
TGFA  
ACTL6A  
ASPH  
ERO1A  
HMGA2  
NAB1

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GJB3  
YWHAZ  
LAMA3  
PRPF40A  
TMOD3  
BTBD10  
FLNB  
B3GNT5  
ZDHHC20  
PIK3CB  
CNM4  
MET  
KDM5B  
SPTY2D1  
GPD2  
ANLN  
CDCP1  
AHNAK2  
ADGRF4  
KRAS  
KIF14  
AGPS  
GJB4  
PRELID3B  
ITGA6  
ASAP2  
IGF2BP2  
CAPRIN1  
MACC1  
CD2AP  
SERPINB5  
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ECT2  
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NFE2L3  
ACTN4  
SLC25A24

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AC025181.2	
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SEC11C	
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SNHG9	
PRADC1	
GNG7	
SMIM27	
SMDT1	
LYRM9	
AC008443.4	
MRM3	
GAMT	
CLU	
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SLC2A11	
PITPNA-AS1	
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HEIH  
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AC133552.5  
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USHBP1  
ATOH8  
RPL3  
EXOC3-AS1  
INPP5K  
EPHX2  
CERS4  
RIC3  
FLJ38576  
NDUFAF8  
BEX2  
GADD45G  
RWDD2A  
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RSAD1  
ARIH2OS  
AC233723.2

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AC036176.1  
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PHPT1  
BEX1  
RASIP1  
AC006449.6  
LINC00909  
BEX4  
GALNT16  
GS1-124K5.4  
CDIP1  
TSPAN33  
MRPL54  
HMGN3  
DNAJC28  
RNF167  
AF131215.7  
AC104986.2  
AC091271.1  
FXYD2  
AC027575.2  
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UBE2D4  
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AC024075.2  
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FUNDC2  
DGCR6L  
MED9  
OLFM1

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SLC25A5-AS1  
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TRIM52-AS1  
AC095057.3  
AC069120.1  
AL035701.1  
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ZSWIM7  
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AP000892.2  
CDPF1  
NUDT18  
APLP1  
RPARP-AS1  
KDM8  
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SAYSD1  
SIL1  
KLKB1  
FLJ37453  
NPM2  
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RASSF8-AS1  
MSI1  
ZNF793-AS1  
QRICH2  
NAA38  
TMEM121B  
CHST10  
SPRN  
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COPRS  
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POMT1  
DCTN3  
SNTG2  
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ZNF517  
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NXF1  
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AC024563.1

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CTSLP2  
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RPL3P1  
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AC111182.1  
GAGE10  
MATN2  
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SYT15  
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RFNG  
PROX2  
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SLIT3

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CLPSL2  
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SEC24B-AS1  
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AOC2  
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UROD  
PLIN1  
PRUNE2  
MIPEPP3  
CRYAB  
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SERHL  
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DACH2  
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BANF2  
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FAM122A  
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SWI5  
HSCB  
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CAB39L  
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DIS3L  
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AC016757.1

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AL078599.2  
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MIR208B

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TBL1X  
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RFPL2  
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TMEM89  
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PHOSPHO1  
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TCAF2  
SERPINI2  
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AC006116.9

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RPL19  
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AC012557.1

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MZT2B  
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AC105402.2  
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Protein Family in Human Pancreatic Cancer

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Xiao-Han Cui, Shu-Yi Hu, Chun-Fu Zhu, Xi-Hu Qin

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