

Chronic heart failure (CHF) related targets

Known therapeutic targets from DisGeNET	Known therapeutic targets from GeneCards	ALL CHF-related targets after removing duplicate values
ADA	TTN	TTN
NR2E3	IL6	IL6
GNE	TNF	TNF
ABCC9	ACE	ACE
USH1C	ALB	ALB
PQBP1	IL1B	IL1B
ENAM	IL10	IL10
OPTN	TP53	TP53
SLC25A13	INS	INS
SLC25A15	TGFB1	TGFB1
PRG4	NPPA	NPPA
SF3B4	SCN5A	SCN5A
ZMPSTE24	TERT	TERT
STUB1	GATA4	GATA4
CDKN1C	REN	REN
CDKN1C	MYH7	MYH7
CDKN2A	CD40LG	CD40LG
CDKN2A	TLR4	TLR4
CDKN2A	IFNG	IFNG
CDKN2A	F2	F2
BCKDK	VEGFA	VEGFA
ADAR	ELN	ELN
ADAR	MYH6	MYH6
TCIRG1	TNNT2	TNNT2
TUBB3	NKX2-5	NKX2-5
NDRG1	LMNA	LMNA
EMG1	TNNI3	TNNI3
HAX1	IGF1	IGF1
SLC9A6	GJA1	GJA1
SEC23B	ABL1	ABL1
CRTAP	APOE	APOE
CEBPA	NPPB	NPPB
CIB2	FN1	FN1
AGPAT2	CCL2	CCL2
SPTLC1	MPO	MPO
SLC19A2	NOTCH1	NOTCH1
POMT1	STAT3	STAT3
PRPF8	PRKAG2	PRKAG2
EBP	NOS3	NOS3
DLL3	DMD	DMD
CLDN16	HLA-DRB1	HLA-DRB1
CETP	KCNQ1	KCNQ1
RAI1	PTPN11	PTPN11
CTSC	LEP	LEP
CFTR	IL1RN	IL1RN
CFTR	TTR	TTR
SEPTIN9	ADRB2	ADRB2
GJB6	RYR2	RYR2
GJB6	AGTR1	AGTR1
SRCAP	AKT1	AKT1
AFG3L2	PPARG	PPARG
CLP1	CCR6	CCR6
SPINK5	FBN1	FBN1
CHAT	APOB	APOB
KERA	CFTR	CFTR
ADAMTS13	CACNA1C	CACNA1C
SLC7A9	CTLA4	CTLA4
GLMN	TBX5	TBX5
WDR45	SOD1	SOD1
LDB3	CRP	CRP
CHKB	AGT	AGT
CHEK2	DSP	DSP
CHEK2	THBD	THBD
CHM	MMP2	MMP2
HP55	HFE	HFE
PDCD10	HRAS	HRAS
PRRT2	GATA6	GATA6
PRRT2	JAG1	JAG1
TREX1	APOA1	APOA1
TREX1	FLNA	FLNA
TREX1	SERPINE1	SERPINE1
KRT71	MTHFR	MTHFR
LYST	STAT1	STAT1
PARK7	KRAS	KRAS
TMC6	WT1	WT1
SLC46A1	FAS	FAS
SLC52A3	ADRB1	ADRB1
CHRN2	HMOX1	HMOX1
EFHC1	ENG	ENG
CHRN2	MMP1	MMP1
CHRN2	POMC	POMC
CHRN2	GJA5	GJA5
NLRP3	JAK2	JAK2
NLRP3	MIR21	MIR21
NLRP3	RYR1	RYR1

NLRP3	CTNNB1	CTNNB1
CHUK	MYBPC3	MYBPC3
CIQTNF5	TBX1	TBX1
CCDC151	CPT2	CPT2
SLC22A12	RTEL1	RTEL1
ERCC8	SMAD4	SMAD4
ERCC8	B2M	B2M
TMC1	DES	DES
TMC1	KCNH2	KCNH2
CLCN1	COMT	COMT
CLCN1	SERPINA1	SERPINA1
CLCN1	KCNJ5	KCNJ5
CLCN5	PON1	PON1
CLCN5	POLG	POLG
ANTXR2	CCN2	CCN2
CLCN7	TGFB2	TGFB2
CLCN7	HADHA	HADHA
CLCNKB	MYPN	MYPN
TPP1	LPL	LPL
TPP1	GLA	GLA
CLN3	KCNJ2	KCNJ2
CLN5	SPP1	SPP1
LRRK2	NR3C2	NR3C2
TPH2	MMP3	MMP3
FGD4	TTN-AS1	TTN-AS1
TTC8	EDN1	EDN1
ABCC2	CAV1	CAV1
ABCC2	TGFB3	TGFB3
USH1G	BRAF	BRAF
CNGA3	IL13	IL13
CNGA3	ERCC6	ERCC6
CNTN1	MIR126	MIR126
COL1A1	SLC17A5	SLC17A5
COL1A1	LPA	LPA
COL1A1	PTEN	PTEN
COL1A1	CCR5	CCR5
COL1A1	CYBB	CYBB
COL1A2	ACTC1	ACTC1
COL1A2	LDLR	LDLR
COL1A2	MT-CYB	MT-CYB
COL2A1	FLNC	FLNC
COL2A1	HLA-DQB1	HLA-DQB1
COL2A1	ZIC3	ZIC3
COL2A1	NLRP3	NLRP3
COL3A1	CXCL8	CXCL8
EDARADD	MIR146A	MIR146A
COL4A1	NRAS	NRAS
COL4A1	PRDM16	PRDM16
COL4A1	HLA-B	HLA-B
COL4A3	FGF23	FGF23
COL4A3	CHD7	CHD7
COL4A3	TBX20	TBX20
COL4A4	MIR17	MIR17
COL4A4	FOS	FOS
COL4A5	TNFRSF1A	TNFRSF1A
COL6A1	MECP2	MECP2
COL6A1	VDR	VDR
COL6A2	FGFR1	FGFR1
COL6A3	IL2RA	IL2RA
COL6A3	KIT	KIT
COL7A1	CYBA	CYBA
COL7A1	TNFSF11	TNFSF11
COL7A1	CAV3	CAV3
DIS3L2	LDB3	LDB3
COL10A1	EGFR	EGFR
COL11A1	GAA	GAA
COL11A2	CYP11B2	CYP11B2
COL11A2	BDNF	BDNF
COL11A2	FMR1	FMR1
COMP	EDNRA	EDNRA
KLHL40	HAMP	HAMP
EVC2	PKD1	PKD1
COX6A1	TLR3	TLR3
COX10	ADA	ADA
CP	TFRC	TFRC
CPOX	PTPN22	PTPN22
CPS1	MIR223	MIR223
CPT1A	GHRL	GHRL
HGSNAT	TF	TF
HGSNAT	SHH	SHH
CREBBP	PRTN3	PRTN3
AMER1	CEP290	CEP290
CRX	TNFRSF1B	TNFRSF1B
CRX	LTA	LTA
CRX	CFH	CFH
CRX	EPO	EPO
TRPM6	NPHP1	NPHP1

CRYAA	BMPR2	BMPR2
CRYAB	SRC	SRC
CRYAB	RAF1	RAF1
CRYBA1	ANK2	ANK2
CRYBB2	NF1	NF1
CRYGB	PKD2	PKD2
CRYGC	TRPM4	TRPM4
CRYGC	CASR	CASR
CRYGD	TGFBR1	TGFBR1
SLC34A3	MTOR	MTOR
CRYGS	TET2	TET2
CSF1R	G6PD	G6PD
CSF3R	CXCR4	CXCR4
OTOA	BAG3	BAG3
DSG4	ITGB3	ITGB3
CSTB	FOXP3	FOXP3
NKX2-5	ALMS1	ALMS1
NKX2-5	EGF	EGF
NKX2-5	TPM1	TPM1
HJV	BMP4	BMP4
CTH	MBL2	MBL2
CTH	PSEN1	PSEN1
CTNNA1	CD79A	CD79A
CTNS	ENPP1	ENPP1
CTNNB1	CRYAB	CRYAB
CTNNB1	C3	C3
CTNNB1	TAZ	TAZ
CTNNB1	PTPRC	PTPRC
CTNNB1	GBA	GBA
CTSD	MYL2	MYL2
CTSK	CCL11	CCL11
MARVELD2	LOX	LOX
CYBB	TMEM67	TMEM67
CYBB	MGP	MGP
CYLD	TNFRSF11B	TNFRSF11B
CYLD	SMAD3	SMAD3
ESCO2	JUP	JUP
C8orf37	NOD2	NOD2
C8orf37	MMP9	MMP9
VPS13B	ACTB	ACTB
CYP11B1	MIR155	MIR155
CYP11B1	RETN	RETN
CYP17A1	ASXL1	ASXL1
CYP19A1	H19	H19
CYP19A1	BBS2	BBS2
CYP21A2	RPGRIP1L	RPGRIP1L
CYP27A1	FKRP	FKRP
CYP27B1	ECE1	ECE1
DAG1	UMOD	UMOD
STRC	ESR1	ESR1
DNAAF4	CALR	CALR
SPRED1	NODAL	NODAL
TRPV3	TGFBR2	TGFBR2
DBT	LAMA2	LAMA2
DCN	AVP	AVP
ACE	HAND2	HAND2
DCTN1	SOS1	SOS1
DDB2	CDKN2A	CDKN2A
DDC	DSG2	DSG2
TMPRSS6	ITGAM	ITGAM
RNF168	HLA-DPB1	HLA-DPB1
DDX11	NPHP3	NPHP3
DES	SCN1B	SCN1B
DES	INVS	INVS
LCA5	BMP2	BMP2
TIMM8A	ATM	ATM
COCH	U2AF1	U2AF1
GLIS3	VCL	VCL
ASXL1	FASLG	FASLG
ASXL1	GPT	GPT
DHCR7	NR3C1	NR3C1
DKC1	SFTPB	SFTPB
DKC1	COL1A1	COL1A1
DLG3	SDHA	SDHA
DLX3	PITX2	PITX2
AGA	GLI3	GLI3
DMD	MT-CO1	MT-CO1
DMD	FCGR2A	FCGR2A
DMD	HADHB	HADHB
DMD	LCAT	LCAT
DMP1	COL3A1	COL3A1
DMP1	RET	RET
DNAH5	ABCA1	ABCA1
DNASE1	TH	TH
DYNC1H1	HTR2A	HTR2A
AGL	GNAS	GNAS
DNM2	THPO	THPO

DNMT3A	TNFRSF13B	TNFRSF13B
DNMT3B	IL4	IL4
DPYD	ABCB1	ABCB1
SLC26A3	SNCA	SNCA
DRD2	ACTA1	ACTA1
JAG1	TSC2	TSC2
JAG1	HBB	HBB
DSG1	MKS1	MKS1
DSP	OFD1	OFD1
DSP	EMD	EMD
SLC26A2	CP	CP
TOR1A	ACADVL	ACADVL
TOR1A	MEFV	MEFV
AGXT	WDR19	WDR19
ECM1	ABCC9	ABCC9
EDA	MAP2K2	MAP2K2
ABCA1	CRELD1	CRELD1
ABCA1	HLA-A	HLA-A
NR0B1	CD19	CD19
EDN3	MME	MME
EDNRA	BMP6	BMP6
EDNRB	PIK3CA	PIK3CA
EFNB1	FGF8	FGF8
MEGF8	VWF	VWF
EGR2	HNFB1B	HNFB1B
EGR2	XDH	XDH
EIF2B1	SCO2	SCO2
EPHA2	CACNB2	CACNB2
UBR1	EDNRB	EDNRB
ELANE	MPL	MPL
DZIP1L	MYOT	MYOT
ELN	IFIH1	IFIH1
EMD	FXN	FXN
FLCN	PDGFRB	PDGFRB
FLCN	ACTA2	ACTA2
FLCN	BBS1	BBS1
FLCN	TLR5	TLR5
UNC13D	PCSK9	PCSK9
ENG	NCF2	NCF2
C9orf72	TMEM70	TMEM70
C9orf72	EVC	EVC
EPB41	CYP2C9	CYP2C9
ANO5	FLT1	FLT1
ANO5	CASP8	CASP8
CLN8	ADIPOQ	ADIPOQ
EPOR	PDCD1	PDCD1
ERBB2	ISL1	ISL1
ERCC2	ALOX5	ALOX5
ERCC2	IL2	IL2
AKT1	DTNA	DTNA
ERCC3	GDNF	GDNF
ERCC4	CITED2	CITED2
ERCC5	FGFR3	FGFR3
ERCC6	CD36	CD36
ERCC6	PLA2G7	PLA2G7
AKT2	F5	F5
ESR1	AHI1	AHI1
ETFDH	SLC25A4	SLC25A4
ALAS2	NPHS2	NPHS2
ETV6	DSC2	DSC2
EVC	ICAM1	ICAM1
ALB	CAT	CAT
EXT1	SELENON	SELENON
EXT1	GATA1	GATA1
EYA1	SFTPC	SFTPC
EZH2	TSC1	TSC1
F2	CFC1	CFC1
ABCD1	IFNA1	IFNA1
F8	AIRE	AIRE
F9	DBH	DBH
F10	TERC	TERC
F11	TTC21B	TTC21B
F12	NOTCH2	NOTCH2
F13A1	INSR	INSR
FANCA	MAPK1	MAPK1
FANCC	BTK	BTK
FANCD2	PDGFRA	PDGFRA
FAH	KCNJ11	KCNJ11
FBN1	IL17A	IL17A
FBN1	SLC22A5	SLC22A5
FBN1	EVC2	EVC2
LRTOMT	MAP2K1	MAP2K1
FBN2	SETBP1	SETBP1
EFEMP1	PRKG1	PRKG1
FCGR2B	IFT140	IFT140
FKTN	TWNK	TWNK
FKTN	SDHB	SDHB

FECH	BRCA2	BRCA2
ALDH3A2	TKT	TKT
FGD1	MT-TL1	MT-TL1
FGF9	NPHS1	NPHS1
FGF10	IL18	IL18
FGF14	IFT172	IFT172
FGFR1	FGA	FGA
FGFR3	MT-ND1	MT-ND1
FGFR3	CD2AP	CD2AP
FGFR3	APOC3	APOC3
FGFR3	MT-ATP6	MT-ATP6
FGFR3	EP300	EP300
FGFR3	LAMP2	LAMP2
FGFR3	PMM2	PMM2
FGFR2	ACTN2	ACTN2
FGFR2	WDR35	WDR35
FGFR2	MIR142	MIR142
FGFR2	CACNA1D	CACNA1D
FGFR2	IFT122	IFT122
FH	TBX4	TBX4
CILK1	CACNA1S	CACNA1S
FAN1	CYP17A1	CYP17A1
RAB3GAP1	MYD88	MYD88
RAB18	NCF1	NCF1
TRIM32	MYH11	MYH11
FOXC2	ACTN4	ACTN4
FOXE1	C4A	C4A
SETX	HJV	HJV
FOXO1	MIR150	MIR150
KIF1B	FGFR2	FGFR2
SPART	CREBBP	CREBBP
PHF8	TP63	TP63
FLNA	CD4	CD4
SLC35D1	LEPR	LEPR
FLNB	PSAP	PSAP
FLNB	ACADM	ACADM
FLNC	DGUOK	DGUOK
MLC1	INPP5E	INPP5E
NBEAL2	GSN	GSN
FLT3	IGF2R	IGF2R
FLT3	CC2D2A	CC2D2A
VPS13A	MTR	MTR
FLT4	PLG	PLG
DDHD2	CSRP3	CSRP3
FMO3	WRN	WRN
SATB2	NR1H4	NR1H4
SATB2	LBR	LBR
FMR1	IGF2	IGF2
FMR1	ACAD9	ACAD9
RPGRIP1L	MT-TK	MT-TK
ATP13A2	MT-CO3	MT-CO3
DICER1	IDUA	IDUA
ZFPM2	ELANE	ELANE
CRB1	CASQ2	CASQ2
CRB1	ABCC8	ABCC8
CRB1	ACADS	ACADS
TARDBP	MAPT	MAPT
SF3B1	IFT43	IFT43
ETHE1	ADRB3	ADRB3
ZFYVE26	BSCL2	BSCL2
KAT6B	TMEM216	TMEM216
CLDN14	EYA4	EYA4
ARL2BP	VCAM1	VCAM1
LEMD3	TRPV4	TRPV4
AMACR	F7	F7
LRRC6	PLN	PLN
AIPL1	CSF2RA	CSF2RA
FXN	SLC4A1	SLC4A1
FXN	ADM	ADM
ABCA4	ERBB2	ERBB2
ABCA4	H2AC18	H2AC18
ABCA4	MIR145	MIR145
ABCA4	HCN4	HCN4
SLC17A8	SMPD1	SMPD1
ALPL	SOX9	SOX9
ALPL	TREX1	TREX1
ALPL	NFE2L2	NFE2L2
FSHR	BCR	BCR
ABL1	BBS4	BBS4
FTL	CASP3	CASP3
FTL	TIMP1	TIMP1
FUCA1	NKX2-1	NKX2-1
G6PC	F3	F3
MSRB3	HYDIN	HYDIN
SLC37A4	FANCA	FANCA
GAA	TK2	TK2
MFSD8	LIPC	LIPC

WDR72	NEK8	NEK8
GALC	FHL1	FHL1
NIPBL	TCAP	TCAP
GALK1	TLR2	TLR2
WHRN	GATA2	GATA2
WHRN	NEK9	NEK9
GALNS	SCNN1A	SCNN1A
GALNS	ZFPM2	ZFPM2
GALNT3	MIR210	MIR210
GALNT3	MT-CO2	MT-CO2
GALT	SELP	SELP
GALT	AQP2	AQP2
GAMT	NOS1	NOS1
SAMHD1	PPARGC1A	PPARGC1A
PNKD	MPV17	MPV17
MMACHC	PSMB8	PSMB8
MMACHC	CCND1	CCND1
CNTNAP2	GATA3	GATA3
CNTNAP2	DNAJC19	DNAJC19
AUTS2	CBL	CBL
ABHD12	POLG2	POLG2
LDLRAP1	NPHP4	NPHP4
PRPF31	CSF3	CSF3
KIFBP	OTC	OTC
ABCA12	ABCA3	ABCA3
ABCA12	HSD11B2	HSD11B2
GARS1	MIR195	MIR195
GARS1	GNRH1	GNRH1
NPHP4	ADAMTS13	ADAMTS13
PTPN22	GNB3	GNB3
PTPN22	NR5A1	NR5A1
GAS8	KIAA0586	KIAA0586
GATA1	MYLK	MYLK
GATA2	CFI	CFI
GATA2	BRCA1	BRCA1
GATA2	FBN2	FBN2
GATA3	SURF1	SURF1
BLOC1S6	SLC25A20	SLC25A20
GATA4	HLA-DQA1	HLA-DQA1
GATA4	CD28	CD28
VPS33B	STAT4	STAT4
TINF2	KMT2A	KMT2A
SACS	SGCD	SGCD
GBA	NAGLU	NAGLU
GBA	TRPC6	TRPC6
GBA	PIK3C2A	PIK3C2A
GBE1	COL1A2	COL1A2
GBE1	PON2	PON2
GCDH	STAT5B	STAT5B
GCH1	COL5A1	COL5A1
GCK	MEN1	MEN1
GCK	GH1	GH1
GCK	LRP5	LRP5
SLC17A5	PAX2	PAX2
CNNM4	TMEM43	TMEM43
IL36RN	MUC1	MUC1
BSCL2	ABCB11	ABCB11
BSCL2	COL4A5	COL4A5
GD11	ATP8B1	ATP8B1
GFAP	APOL1	APOL1
GFPT1	RASA1	RASA1
AMH	ATRX	ATRX
AMHR2	SERPINA3	SERPINA3
GHR	MT-ND4	MT-ND4
GJA1	HBA1	HBA1
GJA3	TYMP	TYMP
DNAI1	AVPR2	AVPR2
GJA8	CORIN	CORIN
NPHP3	FOXF1	FOXF1
ATP2C1	KCND3	KCND3
GJB1	COQ2	COQ2
GJB2	GUSB	GUSB
GJB2	PRKAR1A	PRKAR1A
GJB2	TFAP2B	TFAP2B
GJB3	MEF2A	MEF2A
GK	NOS2	NOS2
INVS	GATA5	GATA5
GLA	PTCH1	PTCH1
DISC1	ACVRL1	ACVRL1
GPC3	MIR144	MIR144
GPC3	RPS19	RPS19
GLB1	IL12B	IL12B
GNMT	CSF3R	CSF3R
GLDC	JAK3	JAK3
GLI3	FKTN	FKTN
GLI3	FANCD2	FANCD2
GLRB	EPRS1	EPRS1

AMT	MDM2	MDM2
GM2A	MSX1	MSX1
GNA11	TRIP4	TRIP4
GNA11	DNMT3A	DNMT3A
GNAO1	MYH9	MYH9
GNAQ	NSD1	NSD1
GNAQ	IFT80	IFT80
GNAS	GALNS	GALNS
GNAS	RBM20	RBM20
GNAS	SDHD	SDHD
GNAS	CST3	CST3
GNAS	CD59	CD59
GNAS	STAR	STAR
GNAT2	CLCNKB	CLCNKB
GNRH1	INF2	INF2
GNRHR	CDKN1C	CDKN1C
GP1BA	IL7R	IL7R
GP1BA	SALL1	SALL1
GP1BB	RPL5	RPL5
GP9	NIPBL	NIPBL
CAVIN1	SERPINC1	SERPINC1
SUMF1	HBA2	HBA2
SUMF1	DKC1	DKC1
CYP4V2	CYP27B1	CYP27B1
DOK7	TXNRD2	TXNRD2
PNPLA1	IL23R	IL23R
ANK1	MYOCD	MYOCD
TPRN	SCNN1B	SCNN1B
ILDR1	SLC19A2	SLC19A2
GRID2	CHAT	CHAT
GRN	SAA1	SAA1
GRN	HSPG2	HSPG2
OSTM1	VCP	VCP
NR3C1	SMARCA4	SMARCA4
GRM1	KMT2D	KMT2D
ANKRD11	SAMHD1	SAMHD1
GRM6	ALPL	ALPL
GRM6	RRM2B	RRM2B
MSH6	ARL13B	ARL13B
MSH6	SCN4B	SCN4B
MSH6	IRF5	IRF5
ICOS	CIITA	CIITA
GUSB	KNG1	KNG1
UBIAD1	BCS1L	BCS1L
GUCY2D	MED13L	MED13L
GUCY2D	DNAH8	DNAH8
SLC40A1	NPY	NPY
HADHA	MIR221	MIR221
HADHA	MRAP	MRAP
HBA1	GHR	GHR
HBA2	DNAH1	DNAH1
HBB	SELE	SELE
HBB	MIR34A	MIR34A
HCCS	CCL5	CCL5
HTT	BAZ1B	BAZ1B
HEXA	IL2RB	IL2RB
HEXB	HLA-DPA1	HLA-DPA1
CFH	MIR483	MIR483
CFH	KCNJ8	KCNJ8
HFE	KCNE2	KCNE2
HGD	KCNJ1	KCNJ1
HINT1	EDN3	EDN3
MNX1	EZH2	EZH2
HLA-DQB1	HP	HP
HLCS	FBLN5	FBLN5
HMBS	NR2F2	NR2F2
HMX1	IKBKG	IKBKG
HNFB4A	IL1A	IL1A
HNFB4A	CSF2	CSF2
HOXA1	MB	MB
HOXA1	PRKD1	PRKD1
HOXA13	LCN2	LCN2
HOXD13	GLB1	GLB1
APC	APP	APP
APC	COL2A1	COL2A1
APC	ACP5	ACP5
APC	CALCA	CALCA
HPD	CD46	CD46
HPRT1	PLEC	PLEC
HPRT1	AGPAT2	AGPAT2
HPS1	MIR27A	MIR27A
AIRE	CD34	CD34
HRAS	DNAJC21	DNAJC21
HRAS	NKX2-6	NKX2-6
HSD11B2	DNMT1	DNMT1
HSD17B4	PRF1	PRF1
HSF4	DNAI1	DNAI1

HSPD1	SBDS	SBDS
HSPG2	CDH2	CDH2
HSPG2	NEB	NEB
HSPG2	TYR	TYR
HTR2A	APOA5	APOA5
HYAL1	IGF1R	IGF1R
APOB	IL5	IL5
APOB	TEK	TEK
CCDC39	FCGR3B	FCGR3B
ACADM	RPGR	RPGR
SLC6A19	SCNN1G	SCNN1G
OTOG	ITGA2B	ITGA2B
FREM2	COL4A3	COL4A3
FREM2	MYL3	MYL3
IDS	PMS2	PMS2
IDUA	NFU1	NFU1
IDUA	LAMA4	LAMA4
RD3	PARN	PARN
LRIT3	CR2	CR2
IFNG	ARSA	ARSA
TUBB2B	LZTR1	LZTR1
IGF1	SMAD9	SMAD9
APOE	TRMU	TRMU
APOE	FANCI	FANCI
APOE	RUNX2	RUNX2
IGF2	MYLK2	MYLK2
ACADS	PNPLA2	PNPLA2
IGHMBP2	SLC10A2	SLC10A2
APP	ZMPSTE24	ZMPSTE24
DNAAF3	RUNX1	RUNX1
APRT	HADH	HADH
APRT	ABCC6	ABCC6
IGSF1	GDF1	GDF1
IHH	PRL	PRL
FAS	ARG1	ARG1
FASLG	MT-ND6	MT-ND6
IL2RG	CEP164	CEP164
AQP2	MC2R	MC2R
INS	CYP11A1	CYP11A1
INS	IL7	IL7
INSL3	CBS	CBS
INSR	PSEN2	PSEN2
INSR	MIR499A	MIR499A
PDX1	GTF2IRD1	GTF2IRD1
PDX1	MECOM	MECOM
IRF6	FGF10	FGF10
IRF6	CDH1	CDH1
IRF6	LRP2	LRP2
IRS1	MVK	MVK
AR	MIR22	MIR22
AR	ETV6	ETV6
AR	SCN4A	SCN4A
ITGA2B	BCHE	BCHE
ITGA2B	PYGM	PYGM
ITGA7	SLC12A1	SLC12A1
ABCC6	ABCB4	ABCB4
ITGB2	TCIRG1	TCIRG1
ITGB3	SALL4	SALL4
ITGB3	PLAT	PLAT
ITGB4	NOTCH3	NOTCH3
ITGB4	SLC2A10	SLC2A10
ACADVL	ARID1B	ARID1B
ITPR2	TPM3	TPM3
IVD	FANCM	FANCM
JAK2	FTO	FTO
JAK2	TBX18	TBX18
JAK2	LTBP4	LTBP4
JAK2	DAG1	DAG1
JUP	NPPC	NPPC
KCNA1	PPARA	PPARA
KIF7	DYNC2H1	DYNC2H1
KCNH2	GFAP	GFAP
KCNH2	NTRK1	NTRK1
AGRN	SLC12A3	SLC12A3
KCNJ1	MEG3	MEG3
KCNJ2	MIR208A	MIR208A
KCNJ10	CHRM3	CHRM3
KCNJ11	CFHR5	CFHR5
KCNJ11	KDM6A	KDM6A
KCNQ1	EFEMP2	EFEMP2
KCNQ1	MAPK14	MAPK14
KCNQ3	FGF2	FGF2
NHLRC1	SCN3B	SCN3B
ACAT1	MIF	MIF
KISS1	BMPR1A	BMPR1A
KIT	TFAM	TFAM
KIT	SCN2B	SCN2B



KIT	ABCG5	ABCG5
KIT	BOLA3	BOLA3
ARG1	SI	SI
KRAS	AMPD1	AMPD1
KRAS	MUC5B	MUC5B
KRAS	MMP14	MMP14
KRAS	BBS5	BBS5
KRT1	KCNE1	KCNE1
KRT2	MYOZ2	MYOZ2
KRT5	SRSF2	SRSF2
KRT5	HUWE1	HUWE1
KRT9	ETFDH	ETFDH
KRT10	RAG1	RAG1
KRT14	IL1R1	IL1R1
KRT16	NPM1	NPM1
IFITM5	RAD51	RAD51
BLOC1S3	TPI1	TPI1
PCARE	RNU4ATAC	RNU4ATAC
LIN28B	FAH	FAH
L1CAM	TINF2	TINF2
L1CAM	COL4A4	COL4A4
LAMA2	SLC40A1	SLC40A1
LAMA3	HNRNPA1	HNRNPA1
LAMA3	MT-ND5	MT-ND5
LAMB2	IGHMBP2	IGHMBP2
LAMB3	NFKB1	NFKB1
LAMB3	SOX10	SOX10
LAMB3	BBS7	BBS7
LAMC2	HMGCR	HMGCR
LAMC2	BGLAP	BGLAP
LAMC2	XK	XK
LAMP2	LIMK1	LIMK1
LBR	FANCB	FANCB
LBR	CD40	CD40
LCAT	FABP3	FABP3
LCAT	NRXN1	NRXN1
LDLR	SCN9A	SCN9A
LDLR	PKP2	PKP2
LDLR	CYP11B1	CYP11B1
LEP	IDS	IDS
LHCGR	DDC	DDC
LHCGR	HPRT1	HPRT1
LIG4	CAPN3	CAPN3
LIM2	FOXC2	FOXC2
LIPA	SMC1A	SMC1A
LIPA	GLI2	GLI2
LMNA	DYNC2I1	DYNC2I1
LMNA	DCTN1	DCTN1
LMNA	SGO1	SGO1
LMNA	CYCS	CYCS
LMNA	LRRC56	LRRC56
LMNA	FOXC1	FOXC1
LMNA	TMEM231	TMEM231
LMX1B	NEK1	NEK1
LPL	ZAP70	ZAP70
LPL	SCARB2	SCARB2
LRP2	ANXA5	ANXA5
LRP4	CYP21A2	CYP21A2
LRP5	GAPDH	GAPDH
LRP5	AGL	AGL
LTBP3	IRS1	IRS1
SH2D1A	TCTN2	TCTN2
TACSTD2	KAT6B	KAT6B
EPCAM	MTM1	MTM1
SMAD4	GALC	GALC
SMAD4	RAG2	RAG2
SMAD4	DYNC2LI1	DYNC2LI1
SMAD4	CLIP2	CLIP2
MAF	EPOR	EPOR
ARSA	HIRA	HIRA
ARSB	GTF2I	GTF2I
STS	TNFRSF11A	TNFRSF11A
MAN2B1	COX5A	COX5A
MANBA	PF4	PF4
MAOA	ERCC1	ERCC1
MAPT	SHOC2	SHOC2
MAPT	DMPK	DMPK
MATN3	HNF1A	HNF1A
MAX	DNASE1	DNASE1
MC4R	CXCL12	CXCL12
CHST6	TFR2	TFR2
MECP2	MYC	MYC
MECP2	FIG4	FIG4
MEFV	PTPN1	PTPN1
MEN1	EPHX1	EPHX1
MET	SEC24C	SEC24C
MET	TCTN3	TCTN3

MGAT2	EHMT1	EHMT1
ASAH1	CD3D	CD3D
MID1	SLC6A4	SLC6A4
MIP	HSPA4	HSPA4
MITF	RBPJ	RBPJ
MITF	RAC1	RAC1
MITF	MIR29B1	MIR29B1
MLH1	TNFRSF13C	TNFRSF13C
MLH1	DNMT3B	DNMT3B
MLH1	RSPH9	RSPH9
MLH1	LIG4	LIG4
KMT2A	XPNPEP3	XPNPEP3
TRPM1	ASS1	ASS1
MMP1	HLA-C	HLA-C
ASL	MIR196A2	MIR196A2
MPL	NPC1	NPC1
MPL	GCK	GCK
MPL	BCL2	BCL2
MPO	CXCL10	CXCL10
MPZ	WDPCP	WDPCP
MPZ	MMUT	MMUT
MPZ	TNNI3K	TNNI3K
MRE11	FANCF	FANCF
GPR179	RFC2	RFC2
ASPA	NSD2	NSD2
MSH2	RAI1	RAI1
MSH2	SMAD6	SMAD6
MSH2	SDCCAG8	SDCCAG8
MSH2	TRAF3IP1	TRAF3IP1
MSH2	MIR132	MIR132
ASS1	RERE	RERE
ASS1	UFD1	UFD1
MSX2	CTNNA3	CTNNA3
MSX2	ARSB	ARSB
MTHFR	GP1BB	GP1BB
MTM1	PTH	PTH
ND6	NR0B1	NR0B1
MTTP	FANCC	FANCC
TRIM37	PEX7	PEX7
MUSK	DNAH5	DNAH5
MMUT	CD8A	CD8A
MMUT	B9D1	B9D1
MVK	LCK	LCK
MVK	GBE1	GBE1
MYBPC3	CETP	CETP
MYC	SGCA	SGCA
SERPINC1	COL5A2	COL5A2
MYH3	NDUFB11	NDUFB11
MYH6	HIF1A	HIF1A
MYH6	PTGS2	PTGS2
MYH7	TLR9	TLR9
MYH7	FLNB	FLNB
MYH7	RAD51C	RAD51C
MYH9	FOXL2	FOXL2
MYH9	TBL2	TBL2
MYO5A	CCL3	CCL3
MYO5B	F9	F9
MYO6	ACTG1	ACTG1
MYO6	DYSF	DYSF
MYO7A	MRAS	MRAS
MYO7A	RSPH4A	RSPH4A
NAGLU	RAP1A	RAP1A
NAGLU	PDSS2	PDSS2
NBN	CYP19A1	CYP19A1
NDP	TBX2	TBX2
NEB	ABCG8	ABCG8
ATM	SCN1A	SCN1A
ATM	KIF7	KIF7
ATM	NDUFS2	NDUFS2
ATM	NBAS	NBAS
NDUFS4	TBX21	TBX21
NDUFS4	PEX1	PEX1
NEFL	IFT27	IFT27
NEUROD1	MIR29A	MIR29A
NF1	AKAP9	AKAP9
NF1	CLCN5	CLCN5
NF1	MIR181A1	MIR181A1
ATP1A2	GGT1	GGT1
NF2	SCN3A	SCN3A
NF2	SST	SST
ATP1A3	MT-ND2	MT-ND2
ATP1A3	IKBKB	IKBKB
ATP1A3	DDX58	DDX58
NGF	SOD2	SOD2
NHS	PEX5	PEX5
NOTCH2	MLXIPL	MLXIPL
NOTCH3	GNPTAB	GNPTAB

PNP	TCF4	TCF4
NPC1	IL12RB1	IL12RB1
NPC1	SLC19A3	SLC19A3
NPC1	INPPL1	INPPL1
NPHP1	WFS1	WFS1
NPHS1	PDE5A	PDE5A
ATP2A1	IGFBP3	IGFBP3
ATP2A2	APOA2	APOA2
ATP2A2	CD247	CD247
NPR2	MTRR	MTRR
NRAS	LAMB2	LAMB2
NRAS	KDR	KDR
NTRK1	FIP1L1	FIP1L1
ROR2	LMOD3	LMOD3
GPR143	MIR143	MIR143
CISD2	KITLG	KITLG
OAT	ATP7A	ATP7A
PJVK	TYK2	TYK2
OCA2	SLC6A2	SLC6A2
OCRL	CTCF	CTCF
OPA1	ALDH18A1	ALDH18A1
TNFRSF11B	ATP6V0A2	ATP6V0A2
OTC	SGSH	SGSH
ALDH7A1	PLA2G6	PLA2G6
PAFAH1B1	AGXT	AGXT
SMARCAL1	CEP120	CEP120
DUOX2	FUCA1	FUCA1
PAH	DARS2	DARS2
PAH	LRP6	LRP6
PRKN	LGALS3	LGALS3
PAX2	CFHR1	CFHR1
PAX3	GSR	GSR
PAX3	AGK	AGK
PAX3	BCOR	BCOR
PAX4	EPAS1	EPAS1
PAX6	PRODH	PRODH
PAX6	B9D2	B9D2
PAX6	HGF	HGF
PAX7	ATP7B	ATP7B
CDON	IKZF1	IKZF1
FOXP3	ATXN2	ATXN2
TBX22	MIR20A	MIR20A
PCCA	CFB	CFB
PCCB	TMPO	TMPO
SOST	NHP2	NHP2
SOST	KCNK3	KCNK3
ACOX1	SOX2	SOX2
ABHD5	DLL1	DLL1
ZDHC9	PIK3R1	PIK3R1
SBDS	CASP10	CASP10
SAR1B	OLR1	OLR1
PCNT	NDUFB8	NDUFB8
MYO15A	SNAP29	SNAP29
CRBN	ERCC4	ERCC4
CD320	IFNA2	IFNA2
PDCCD1	MLYCD	MLYCD
ZMYND10	SLC22A12	SLC22A12
PRKAG2	NNT	NNT
PDE6A	NBN	NBN
PDE6C	DOCK8	DOCK8
CABP2	PRNP	PRNP
PDGFRA	BBS10	BBS10
PDE6B	FANCG	FANCG
PDE6B	SCN8A	SCN8A
PDE6B	MIAT	MIAT
PDGFRB	PTH1R	PTH1R
PDGFRB	ALK	ALK
PDHA1	PPBP	PPBP
SUFU	DNAH11	DNAH11
SUFU	IFT52	IFT52
SLC26A4	SETX	SETX
SERPINF1	SCN10A	SCN10A
ATP8A2	MIR199A1	MIR199A1
PEX1	GYS1	GYS1
PEX7	SH2D1A	SH2D1A
ATP8B1	DYNC2I2	DYNC2I2
PFKM	IL17F	IL17F
ABCB4	XIAP	XIAP
PHEX	ANKRD1	ANKRD1
PHKA1	CTSD	CTSD
PHYH	ERCC2	ERCC2
SERPINI1	APTX	APTX
PIK3CA	OCRL	OCRL
PIK3CA	NOP10	NOP10
PIK3CA	MIR222	MIR222
PIK3CD	MUSK	MUSK
PIK3R1	COG7	COG7

PITX1	IQCB1	IQCB1
PITX2	SGCG	SGCG
PKD1	FANCL	FANCL
PKD1	NDUFAF3	NDUFAF3
PKD1	APRT	APRT
PKD2	KL	KL
PKD2	SLC4A4	SLC4A4
PKLR	DSTYK	DSTYK
PKHD1	PRKN	PRKN
PLEC	SPTA1	SPTA1
PLEC	SH2B3	SH2B3
PLG	PPP1CB	PPP1CB
SERPINF2	ELP1	ELP1
PLP1	KIF1B	KIF1B
PLP1	PDX1	PDX1
PMM2	SLX4	SLX4
PMP22	SMARCA2	SMARCA2
PMP22	IBA57	IBA57
PMP22	IL21	IL21
PMP22	AFF4	AFF4
PMP22	COX10	COX10
ATP7A	SKIV2L	SKIV2L
ATP7A	SLC2A4	SLC2A4
ATP7A	ITGB2	ITGB2
MYO3A	SQSTM1	SQSTM1
PMS2	MTTP	MTTP
PMS2	NPC2	NPC2
ATP7B	MIR30E	MIR30E
POLG	NEDD4L	NEDD4L
POLH	FOXH1	FOXH1
GDAP1	GLI1	GLI1
POMC	AMH	AMH
ATR	RTEL1-TNFRSF6B	RTEL1-TNFRSF6B
ADAMTSL4	LMX1B	LMX1B
MAGEL2	FOXP1	FOXP1
LZTFL1	DNAAF3	DNAAF3
ATRX	FH	FH
UGT1A1	ARVCF	ARVCF
UGT1A1	GPC3	GPC3
UGT1A1	SDHC	SDHC
PPARG	FCGR2B	FCGR2B
PPARG	CALM2	CALM2
KIF1A	CACNA1A	CACNA1A
CNGB3	RMRP	RMRP
CNGB3	MIR122	MIR122
CTSA	TALDO1	TALDO1
PPIB	TNFAIP3	TNFAIP3
TET2	ATP5F1A	ATP5F1A
AHI1	PKHD1	PKHD1
DYM	PTGS1	PTGS1
APTX	MAPK8	MAPK8
BCOR	ESCO2	ESCO2
MKS1	LZTFL1	LZTFL1
PPOX	F13A1	F13A1
CLN6	BBS12	BBS12
CLN6	GLE1	GLE1
PPP1R3A	VEGFC	VEGFC
AVP	CAVIN1	CAVIN1
ARMC4	SRP72	SRP72
THAP1	CTSA	CTSA
SLC29A3	ADD1	ADD1
SLC35C1	HSPB1	HSPB1
PPT1	PEX6	PEX6
AVPR2	LIPA	LIPA
AVPR2	APC	APC
PRF1	CSPP1	CSPP1
DHTKD1	CCR1	CCR1
KIF21A	POLR3A	POLR3A
FERMT1	DCLRE1C	DCLRE1C
POMGNT1	TARDBP	TARDBP
SLC39A4	COL4A1	COL4A1
CHD7	SOS2	SOS2
TMEM127	VKORC1	VKORC1
PRKAR1A	HNRNPA2B1	HNRNPA2B1
PRKAR1A	CDC42	CDC42
PRKAR1A	BANF1	BANF1
VPS35	PNP	PNP
TDP1	TAC1	TAC1
SCN3B	PALB2	PALB2
HR	CDKN3	CDKN3
HR	DPM1	DPM1
PRKCG	NEU1	NEU1
CFC1	ARMC4	ARMC4
MAP2K1	PDGFB	PDGFB
MAP2K2	TRPM6	TRPM6
ANKH	HIBCH	HIBCH
LMOD3	GNRHR	GNRHR

PRNP	SMARCB1	SMARCB1
PRNP	SLC39A8	SLC39A8
PRNP	DNAI2	DNAI2
PROC	EIF2AK3	EIF2AK3
PRSS1	MKKS	MKKS
HTRA1	HLA-G	HLA-G
PSEN1	A2ML1	A2ML1
PSEN1	WNT4	WNT4
PSEN1	MC4R	MC4R
FAM20C	IL3	IL3
COQ8A	KLHL40	KLHL40
RPGRIP1	C2CD3	C2CD3
RPGRIP1	IRF8	IRF8
PNPLA2	ZEB2	ZEB2
SLURP1	WRAP53	WRAP53
GJC2	CASP1	CASP1
SALL4	DNM1L	DNM1L
SELENON	RB1	RB1
MCOLN1	TBK1	TBK1
PTCH1	CALM1	CALM1
PTCH1	MASP2	MASP2
PTEN	WAS	WAS
PTEN	NDUFAF2	NDUFAF2
PTEN	PLAU	PLAU
PTEN	IL12A	IL12A
PTEN	MEGF10	MEGF10
PTEN	TMEM126B	TMEM126B
PTEN	AARS2	AARS2
PTEN	SERAC1	SERAC1
PTEN	SEPSECS	SEPSECS
JPH3	ACE2	ACE2
TBC1D24	SLC22A4	SLC22A4
ARID1B	G6PC3	G6PC3
WDR35	SARS2	SARS2
IFT80	CX3CR1	CX3CR1
ALS2	ABCC2	ABCC2
CHD8	MS4A1	MS4A1
EPG5	SLC2A1	SLC2A1
PTPN11	TRDN	TRDN
PTPN11	ANKS6	ANKS6
PTPN11	SMN1	SMN1
PTPN11	SPEG	SPEG
PTPN11	RAD21	RAD21
ACTA1	RPL11	RPL11
BARD1	RAB7A	RAB7A
PTS	WASHC5	WASHC5
BBS1	SMC3	SMC3
BBS2	HMGB1	HMGB1
PYGM	CPS1	CPS1
NLRC4	UGT1A1	UGT1A1
BBS4	SF3B1	SF3B1
RAB27A	COQ8B	COQ8B
RAF1	OTX2	OTX2
RAF1	CYP2D6	CYP2D6
RAG1	GDF15	GDF15
RAG2	CPOX	CPOX
RAG2	HSPD1	HSPD1
RASA1	HTT	HTT
RB1	FANCE	FANCE
BCKDHA	SELL	SELL
TRPV4	HES7	HES7
BCKDHB	CASP9	CASP9
OPN1LW	ADCY5	ADCY5
RDH5	FAN1	FAN1
PRPH2	VHL	VHL
RET	HNF4A	HNF4A
RET	ATP2A2	ATP2A2
RET	TTC8	TTC8
RET	RARB	RARB
RET	PDHA1	PDHA1
RHO	IL2RG	IL2RG
RHO	KISS1	KISS1
RHO	MATR3	MATR3
GRK1	SLC2A9	SLC2A9
RIT1	ATAD1	ATAD1
RIT1	FLI1	FLI1
RLBP1	LARS2	LARS2
HPSE2	CREB1	CREB1
NYX	RBM8A	RBM8A
ALX4	PGM1	PGM1
RP1	PKLR	PKLR
RP2	GTPBP3	GTPBP3
RPGR	ACHE	ACHE
RPGR	MIPEP	MIPEP
RPGR	CDC45	CDC45
RPE65	TSHR	TSHR
RPE65	TCOF1	TCOF1

RPE65	DRD4	DRD4
RPE65	STAG3	STAG3
RPS6KA3	ERAP1	ERAP1
RS1	PAX3	PAX3
RS1	APOH	APOH
RYR1	RNASE3	RNASE3
RYR1	PAH	PAH
RYR1	GSTM1	GSTM1
RYR2	AGTR2	AGTR2
RYR2	CRKL	CRKL
SALL1	HSP90AA1	HSP90AA1
ATXN1	UTS2	UTS2
ATXN2	JUN	JUN
ATXN7	PEX2	PEX2
SCN1A	MIR424	MIR424
SCN1A	TTC37	TTC37
SCN4A	AGER	AGER
SCN4A	HSD11B1	HSD11B1
SCN4A	IGHM	IGHM
SCN5A	NTRK2	NTRK2
SCN5A	NDUFAF1	NDUFAF1
SCN5A	ECHS1	ECHS1
SCN5A	RBCK1	RBCK1
SCN5A	TRPM7	TRPM7
SCN5A	BBS9	BBS9
SCN5A	KCNE3	KCNE3
SCN8A	ARSL	ARSL
SCN9A	RRAS	RRAS
SCN9A	CUBN	CUBN
SCN9A	ASAH1	ASAH1
SCN10A	IFNB1	IFNB1
SCNN1B	SERPINA6	SERPINA6
SCO1	PECAM1	PECAM1
VIPAS39	CD81	CD81
SDHB	LAMA3	LAMA3
SDHB	SLC1A2	SLC1A2
SDHC	RASA2	RASA2
SDHD	TNFSF4	TNFSF4
SDHD	SETD2	SETD2
TRAPPC2	NDUFS4	NDUFS4
CDH23	MT-ATP8	MT-ATP8
CDH23	PLOD1	PLOD1
SMOC1	FECH	FECH
BLM	EPG5	EPG5
NOD2	ZIC2	ZIC2
NOD2	C5	C5
P3H1	PDE4D	PDE4D
STRA6	BGN	BGN
ROBO3	MIR33A	MIR33A
ABCG5	C4B	C4B
ABCG8	MT-TV	MT-TV
LMBR1	NAGS	NAGS
SIL1	SON	SON
SGCA	RECQL4	RECQL4
DCLRE1C	PIGA	PIGA
SGCB	MGME1	MGME1
SGCD	MIR140	MIR140
SGCD	C9orf72	C9orf72
SGCG	CD38	CD38
SGSH	CCDC40	CCDC40
SGSH	COG2	COG2
SH3BP2	HMGA2	HMGA2
SHH	RSPH3	RSPH3
PRSS56	BTNL2	BTNL2
SHOX	DNASE1L3	DNASE1L3
SHOX	GCG	GCG
NMNAT1	ADSL	ADSL
NMNAT1	BSND	BSND
P2RY12	SOD3	SOD3
PORCN	MT-TS1	MT-TS1
SIX1	TWIST1	TWIST1
SIX3	CRH	CRH
PINK1	LRRK2	LRRK2
SLC1A1	FLG	FLG
REEP1	AFP	AFP
SLC2A1	ATXN3	ATXN3
SLC2A2	CCDC114	CCDC114
SLC2A4	ADCY10	ADCY10
SLC3A1	CHGA	CHGA
SLC4A1	GZMB	GZMB
SLC4A1	PHEX	PHEX
SLC4A1	HELLS	HELLS
PCDH15	SLC52A3	SLC52A3
PCDH15	HDAC8	HDAC8
SLC5A1	DDX11	DDX11
SLC5A2	CEP83	CEP83
CPLANE1	SPINK1	SPINK1

SLC6A3	NLRP1	NLRP1
SLC6A4	GUCY2C	GUCY2C
SLC6A8	TRMT10C	TRMT10C
SLC12A1	PTGIS	PTGIS
SLC12A3	CACNA2D1	CACNA2D1
SLC16A2	MIR423	MIR423
BMPR1A	RREB1	RREB1
BMPR1A	IL17RA	IL17RA
BMPR1A	PMP22	PMP22
SLC22A5	COG1	COG1
SMARCA2	ETS1	ETS1
SMARCB1	PRKDC	PRKDC
SMARCB1	CCDC39	CCDC39
SMN1	NUP188	NUP188
SMN1	CXCR3	CXCR3
SMPD1	PDE4A	PDE4A
SMPD1	TMEM237	TMEM237
SMS	DRD2	DRD2
SNCA	CPT1A	CPT1A
SNCA	CS	CS
SNRPN	KCNQ1OT1	KCNQ1OT1
SOD1	TNFSF12	TNFSF12
SOD1	TNNC1	TNNC1
SOS1	GANAB	GANAB
SOS1	ATXN1	ATXN1
SOX9	STK11	STK11
SOX10	SIRT1	SIRT1
SOX10	MIR10A	MIR10A
FOXL2	SNRPB	SNRPB
SPAST	NF2	NF2
SPG7	TGIF1	TGIF1
SPINK1	TBX3	TBX3
SPINK1	PIK3CG	PIK3CG
SPTA1	HSD17B4	HSD17B4
SPTBN2	DGKE	DGKE
SRD5A2	DDX41	DDX41
BRCA1	GRIN2A	GRIN2A
BRCA1	MAFB	MAFB
BRCA1	AHCY	AHCY
BRAF	IGFBP1	IGFBP1
BRAF	LTBP2	LTBP2
BRAF	SLC8A1	SLC8A1
BRAF	AFF2	AFF2
SRY	SCN2A	SCN2A
BRCA2	SPINK5	SPINK5
BRCA2	ICOSLG	ICOSLG
BRCA2	LRBA	LRBA
BRCA2	ANGPT2	ANGPT2
BRCA2	ARX	ARX
BRCA2	MYRF	MYRF
BRCA2	FUZ	FUZ
BRCA2	DVL3	DVL3
STAR	CHKB	CHKB
STAT3	RPL26	RPL26
STAT3	KCNE5	KCNE5
ELOVL4	G6PC	G6PC
STIM1	RPS26	RPS26
STK11	PIGL	PIGL
ABCC8	VIP	VIP
ABCC8	SOX3	SOX3
SURF1	MYH8	MYH8
BTD	CCDC151	CCDC151
TACR3	CYP3A5	CYP3A5
TACR3	DLL4	DLL4
TAF1	SLC34A1	SLC34A1
TAT	ALG3	ALG3
TBX1	ADAT3	ADAT3
TBX1	CHRNA1	CHRNA1
TAZ	UBE2T	UBE2T
TBP	AK2	AK2
TBX5	HK1	HK1
TBX6	ASL	ASL
TCF4	FTH1	FTH1
TBX3	NEFL	NEFL
HNF1A	SEMA3A	SEMA3A
HNF1A	RNASEH2C	RNASEH2C
HNF1A	ALG12	ALG12
HNF1B	DCDC2	DCDC2
HNF1B	GYG1	GYG1
TCOF1	GLUL	GLUL
BTK		NR2E3
ACTC1		GNE
TECTA		USH1C
BUB1B		PQBPI
TF		ENAM
TFAP2A		OPTN
TFAP2B		SLC25A13





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WT1  
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SNAP29  
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GRHPR  
OTOF

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