

Table S1. Programmed cell death related genes obtained in the present study.

Pyroptosis	Parthanatos	Necrosis	Necrosis like morphology	Necroptosis	Lysosome dependent cell death	Intrinsic apoptosis	Immunogenic cell death	Ferroptosis	Extrinsic apoptosis	Entotic cell death	Cuproptosis	Autophagy	Apoptosis like morphology	Anoikis
GSDMD	AIFM1	TNF	TP53	RIPK1	TP53	CBLIF	TP53	ZNF419	CASP8	TP53	ATP7A	AMBRA1	TP53	PTK2
GSDME	PARP1	TNFRSF1A	AKT1	RIPK3	EGFR	BCL2	ADA	ZFP69B	BCL2	MTOR	ATP7B	APOL1	TERT	PIK3CA
NLRP3	ADPRS	COL2A1	VIM	MLKL	ATM	CASP8	FAS	ZFP36	CASP3	TNFSF10	CDKN2A	ARNT	PTCH1	CEACA
CASP1	RNF146	TNFRSF1B	MYC	ZBP1	AKT1	CASP3	EGFR	YY1AP1	FAS	GZMB	DBT	ARSA	MYC	M6
CASP4	NAMPT	TNFSF10	BCL2	CASP8	TNF	BAX	BCL2	YWHAE	BAX	EZR	DLAT	ARSB	VIM	PDK4
GSDMB	GPX4	IL6	KRT5	TNF	PDCD1	FAS	PTEN	XBP1	XIAP	MRTFA	DLD	ATF4	BCL2	BCL2
GSDMC	MAPK8	LTA	RAC1	CYLD	MTOR	XIAP	CASP8	WIP2	CFLAR	DIAPH1	DLST	ATF6	MAPK1	TSC2
NLRP1	SQSTM1	IL1B	FAS	ITPK1	IL6	TP53	ATM	WIP1	FASLG	MAP1LC	FDX1	ATG10	TNF	PTRH2
IL1B	CAST	FAS	ABL1	IPMK	VHL	CASP9	PIK3CA	VLDLR	TP53	3A	GCSH	ATG12	DNAH8	STK11
GZMB	AIMP2	IL10	CASP8	MAP3K7	CD274	CFLAR	AKT1	VEGFA	TNFSF10	LPAR2	GLS	ATG16L1	EGFR	MAP3K7
GSDMA	RIPK1	TNFSF11	IL2RA	CASP6	DAPK1	FASLG	KRAS	USP7	CASP9	CDH1	LIAS	ATG16L2	FAS	NTRK2
AIM2	FEN1	TRPV4	AIFM1	TRPM7	RIPK1	CASP10	KIT	ULK2	CASP10	CTNNA1	LIPT1	ATG2A	GSN	CRYBA1
CARD8	ESR1	FASLG	LETM1	FADD	ABL1	AIFM1	TNF	ULK1	AIFM1	AMPK	MTF1	ATG2B	RAF1	MCL1
CASP8	RAB33A	TNFSF13B	CASP3	PEL1	IL1B	TNFSF10	PDCD1	UBC	MCL1	RHOA	PDHA1	ATG3	CASP3	DAPK2
GZMA	DIABLO	TNFRSF10A	SLC2A1	PGLYRP1	ICAM1	BCL2L1	CDKN2A	TXNRD1	BCL2L1	ROCK	PDHB	ATG4A	CCND1	NOTCH1
PYCARD	MCL1	IFNG	IFNG	SPATA2	JAK2	MCL1	FASLG	TXNIP	CYCS	ATG5	SLC31A1	ATG4B	JAK2	TLE1
DPP9	DDB1	TNFRSF10B	CYCS	SIRT3	STK11	CYCS	CCND1	TUBE1	TNF	ATG7	SLC25A3	ATG4C	AR	CAV1
CASP5	CUL4A	TRAF2	TNFRSF1A	HMGB1	PPARG	BCL2L11	MYC	TTPA	TNFRSF10B	P3K3C		ATG4D	TUBB	SNAI2
IL18	TOMM20	MT-ATP6	PEPD	TP53	SRC	BIRC5	BRAF	TSC22D3	BIRC5	BECN1		ATG5	NDE1	IKBK
ZBP1	OTUD1	TNFAIP3	PGR	TNFRSF1A	HIF1A	CUBN	CTNNB1	TRIB3	BCL2L11	CYBB		ATG7	GLI1	SRC
CASP3	DCAF10	TNFRSF14	FOXP3	MEFV	EGF	CASP7	CASP3	TP63	CASP7	UVRAG		ATG9A	CYCS	AKT1
NLR4	PTEN	TNFSF14	PAFAH1B1	AIM2	CFLAR	BOK	BAX	TNFAIP3	CASP2	RUBCN		ATG9B	SALL4	MTOR
DPP8	ESR2	CXCL8	KRT20	TNFAIP3	TGFBR2	TNFRSF10B	ERBB2	TMBIM4	PRKCD	CDC42		ATIC	MDM2	CHEK2
MIR223		CASP8	FASLG	UCHL1	PTPN11	TNF	STAT3	TLR4	BID	RNF146		BAG1	AIFM1	E2F1
CASP6		TNFRSF11B	BAX	STING1	CDK4	CASP2	SCN5A	TIMM9	TNFRSF10A			BAG3	CAV1	ITGA5
TRIM24		TNFSF12	NLRP3	TNIP1	MCL1	CASP6	IL6	TGFBR1	PAWR			BAK1	EDN1	ITGB1
HMGB1		TRADD	HIF1A	SERTAD1	PARP1	PRKCD	MTOR	TFR2	BOK			BAX	MKI67	BRMS1
NAIP		IL1A	RIPK1	TRAF2	TSC2	AKT1	IFNG	TFAP2C	AKT1			BCL2	SNCA	CEACA
MEFV		TNFSF4	PARP1	NFKB1	MAPK14	MAPK8	HRAS	TBK1	CASP1			BCL2L1	CDKN1A	M5
DHX9		TNFSF15	ANXA5	CFLAR	MITF	BID	TNFRSF10B	SUV39H1	MAPK8			BECN1	CD40	
NLRP9		TNFSF13	NFKB1	MAPK14	PKLR	NAIP	CDH1	STMN1	CASP6			BID	EDNRB	
STAT3		NUP62	TNFSF10	FAS	TSC1	CASP1	TGFB1	STK11	BIRC2			BIRC5	BAX	
SIRT1		TP53	HTRA2	BIRC2	IKBK	BIRC2	CD274	STEAP3	PARP1			BIRC6	NOS2	
APIP		ADAM17	TKT	AIFM1	PTGS2	MIP	NRAS	SRXN1	FADD			BNIP1	APP	
MALAT1		CASP3	CASP9	KLHDC10	IGF1R	PARP1	MAPK1	SREBF2	DIABLO			BNIP3	PRKCD	
GAS5		RIPK1	USF3	SFTPA1	BCL2L11	DIABLO	VHL	SREBF1	SIVA1			BNIP3L	USP9X	
CTSG		CRP	TNFSF12	GSK3B	CBL	KRAS	FGFR3	SRC	BIRC3			C12orf44	TREX1	
NEK7		SLC25A19	BCL2L1	XIAP	CD36	LIM2	RB1	SP1	RIPK1			C17orf88	ATRIP	
KCNQ1OT1		TNFRSF11A	HSPA5	MYC	CDK6	PAWR	TERT	SOCS1	KRAS			CALCOC	TGM1	
		CD40	CAT	TNIP3	GBA	MAPK1	VEGFA	SNX4	BAK1			O2	ETS1	
TREM2		TNFRSF18	GAPDH	TLR4	PROM1	BAK1	CD4	SNORA16	CDKN1A			CAMKK2	NOS3	
FOXO3		TNFRSF4	AURKA	GJB1	HMGB1	SIVA1	IL10	A	MOAP1			CANX	CASP9	
TP53		TLR4	CASP1	DNM1L	FLT1	BIRC3	KITLG	SMAD7	MAPK1			CAPN1	CD4	
MIR30C1		TNFSF9	TNFSF15	PTGES3	SQSTM1	TNFRSF10	ALK	SLC7A5	STAT3			CAPN10	MAP3K1	
NFE2L2		TNFRSF25	FGF14	UVRAG	SMPD1	A	CDKN1A	SLC39A1	TNFRSF1A			CAPN2	PARP1	
TXNIP		CCL2	XBP1	BRD4	CHEK1	CDKN1A	BAD	4	BIRC7			CAPNS1	LEP	
DDX3X		TNFRSF9	CASP2	RB1	GSK3B	STAT3	LMNA	SLC2A8	MYC			CASP1	ANXA5	
MIR22		TNFSF18	HMGB1	SIRT2	YAP1	NRAS	HLA-DRB1	SLC2A6	PEA15			CASP3	JUN	
NEAT1		IL18	ENDOG	IKBK	TFEB	BBC3	BCL2L1	SLC2A3	MAP3K5			CASP4	SLC6A3	
MIR125A		TNFAIP6	GP6	DAPK1	HSPA5	APAF1	BID	SLC2A14	NRAS			CASP8	IL3	
FOXP3		MAPK8	MBL2	FKBP1A	FOXO3	MYC	BCL6	SLC2A12	CCAR1			CCL2	CD44	
SESN2		TNFRSF6B	BNIP3	MIR425	NOTCH3	MAPK14	RIPK1	SLC2A1	APAF1			CCR2	THBS1	
ELANE		CD40LG	GSS	EZH2	TRAF2	BAD	ABL1	SLC1A4	MAPK14			CD46	CUL3	

TNF	TNFRSF10C	SP1	NFE2L2	IL6ST	MOAP1	CXCL8	SLC16A1	ANXA5	CDKN1A	NME1
GBP1	TNFRSF10D	TNFRSF10	CD274	CTSD	RIPK1	IL2	SIRT3	BAD	CDKN1B	BCL2L1
MEG3	LTBR	A	CHMP4B	SIRT1	API5	XIAP	SETD1B	BFAR	CDKN2A	CASP7
MIR135B	ICAM1	TNFRSF10	CXCL5	VCP	MAP3K5	MAPK8	SELENOS	AVEN	CFLAR	PRKCA
MIR556	TNFRSF8	B	MIR29B1	TRAF6	BIRC7	IL1B	SCP2	NOL3	CHMP2B	EPO
FMR1	FADD	NRIP1	BCL2	SHC1	CCAR2	ICAM1	SAT1	CASP4	CHMP4B	SIRT1
MIR302A	MYLK	IAPP	AXL	CTSB	FADD	TTN	RPTOR	BBC3	CLN3	FDFT1
UBR2	TNFSF8	CAPN1	MERTK	STK4	AEN	RET	RIPK1	IL1B	CTSB	CAT
CPTP	COL1A1	BECN1	TYRO3	PKM	CCAR1	BRCA1	RGS4	TRAF2	CTSD	TLR3
GJA1	XIAP	TNFRSF12	SIRT6	CD86	AVEN	CXCR4	RELA	PERP	CTSL1	BIRC5
SNIP1	ADAR	A	NAT2	ITGA5	TNFRSF1A	NFKB1	RB1	IL10	CX3CL1	REN
PRDM1	IL1RN	ENO1	SLC39A7	CTNND1	CASP4	CTLA4	PVT1	TRIAP1	CXCR4	MCL1
MIR214	TNFRSF17	TYMS	USP22	PARK7	PEA15	BRCA2	PTGS2	IL6	DAPK1	JAK3
PCSK9	TNFRSF13B	PDLIM1	PANX1	NLRP3	ANXA5	STAT1	PTEN	JUN	DAPK2	MAPK8
VDR	TGFB1	RPAIN	PDCD6IP	BECN1	JUN	JAK2	PSAT1	TNFRSF10C	DDIT3	NOS1
BRD4	TGFB2	TNFRSF6B	FLOT1	AHR	PERP	EPCAM	PROM2	TNFRSF10D	DIRAS3	PRKCE
AGER	ACTA2	PLA2G7	FLOT2	HDAC6	MDM2	PTCH1	PRKAA2	IFNG	DLC1	BIRC8
IKBKE	LTB	MYO10	IL37	XRCC5	CIAPIN1	VCAM1	PRKAA1	IL2	DNAJB1	ADIPOQ
PKM	TRAF3	DIABLO	DIABLO	RIPK3	BFAR	STK11	PRDX6	MDM2	DNAJB9	ANXA1
KIF23	RIPK3	ATG4B	FASN	HSPA8	NOL3	JUN	PRDX1	NFKB1	DRAM1	HTRA2
IFI16	IL4	ATG3	CDK9	RPS27A	TP53AIP1	CD44	POR	TRADD	EDEM1	FDPS
CRTAC1	TNFRSF19	MAP1LC3	TIMM50	ANXA2	AATF	FLT3	POM121L	BCL2L2	EEF2	LTF
SEZ6L2	TRAF1	A	SLC25A37	C9orf72	TRIAP1	MIR34A	12	CASP14	EEF2K	CASP6
SMIM1	PTGS2	PRKAA1	PPP1R3G	MAP3K7	E2F1	PPARG	PML	BIK	EGFR	CASP1
MIR20B	TNFRSF12A		MIR7-1	IL1R1	MTOR	ITGB1	PLIN4	CXCL8	EIF2AK2	DNASE1
MIR448	SMAD3		NFKBIA	HCK	TP53BP2	SRC	PLIN2	E2F1	EIF2AK3	CD47
TET2	CD70		AURKC	DDR1	NFKB1	PIK3R1	PLA2G6	CASP5	EIF2S1	TNFSF10
TRAF6	ADIPOQ		NGFR	VTN	CHEK2	TNFSF10	PIR	MTOR	EIF4EBP1	RASSF1
CTSV	VCAM1		FMR1	PRKAA1	AREL1	NCAM1	PHKG2	GZMB	EIF4G1	XDH
UTS2	CSF2		GNLY	UBC	DAXX	EGF	PHF21A	EGFR	ERBB2	CHP1
ZNF532	HLA-DRB1		PARP1	IRF3	RAF1	IL4	PGD	SOD2	ERN1	TUBA4A
MIR155H	HLA-B		HTRA2	ARSA	GZMB	CD40	PEX6	BCL2L14	ERO1L	CASP2
G	PRKG1		HSPA5	NEDD4	EGFR	C11orf65	PEX3	HSPA5	FADD	CAPN1
MIR155	TGFB1		PRKAA2	CD1D	BCL2L2	MUC1	PEX2	IL4	FAM48A	TP73
ZFAS1	SLC2A10		PRKAA1	LAMP2	DDIAS	IL2RA	PEX12	PYCARD	FAS	LALBA
MIR527	CFLAR		PITPNA	KCNB1	CDKN2A	PDCD1LG2	PEX10	DFFA	FKBP1A	MAPK14
MLKL	ACE		METTL3	IRAK1	TRAF2	HIF1A	PEBP1	PTEN	FKBP1B	F2R
PTPN11	MIF4GD-DT		TRAF5	CTSK	CAAP1	PTPN11	PCK2	TGFB1	FOS	GADD45
MAPK14	TNFRSF21		FNDCC4	TAB2	TNFRSF10C	TGFB1	PARK7	RAF1	FOXO1	A
NFKB1	TRAF6		FNDCC5	ROR2	ECSCR	CFLAR	PANX1	BECN1	FOXO3	STAT5A
APOE	NFKB1		FASLG	GDF15	MIR21	BIRC5	P4HB	GSK3B	HDAC1	APOL1
ANXA1	LEP		TXN	IFNGR1	TNFRSF10	NPM1	OXSRI	TLR4	HDAC6	FAM111A
SDHB	LOX		RALBP1	TRIM28	D	CDK4	OTUB1	CDK1	HGS	DYNC112
P2RX7	MYH11		TP53I3	CTSL	MAPK3	HLA-B	OSBPL9	FOXO3	HIF1A	ATRIP-T
EEF2K	IL2		GSDMD	STUB1	FOXO3	CASP9	NT5DC2	HIF1A	HSP90AB	REX1
FPR2	ALB		PRKN	ATG5	CASP14	HAVCR2	NRAS	VEGFA	1	BAK1
HTRA1	IL4I1		HSP90AA1	CAPN1	TP73	FGF2	NR4A1	BCL2L10	HSPA5	PLA2G4
PAK2	TGFB1		STUB1	LAMP1	ERBB2	PCNA	NR1D2	CD4	HSPA8	A
NDUFA13	TGFB3		TNFSF10	RPS6KA3	BIK	FH	NR1D1	DAXX	HSPB8	TNFRSF1
CD274	CYCS		CDC37	CUL1	HIF1A	INS	NQO1	MIR21	IFNG	0A
SETD7	SELE		RELA	IAPP	CLU	MCL1	NOX5	HTRA2	IKBKB	TNFRSF1
FGF21	BIRC3		TRPC6	RB1CC1	PTEN	KDR	NOX3	TP73	IKBKE	0B
MIR185	HMGB1		SIRT5	CSNK1A1	CASP5	CYCS	NOX1	MAPK3	IL24	APAF1
DLX6-AS1	VEGFA		MIR21	PPIA	LMNA	MDM2	NOS2	PTGS2	IRGM	BECN1
MIR23A	FLNA		AURKA	MCOLN1	ATM	NFKBIA	NNMT	CDKN2A	ITGA3	TERF1
MIR520C	IL1R1		PLK1	SERPINB3	HRAS	CD40LG	NGB	ATM	ITGA6	BCL2L11
KLF3-AS1	BIRC2		TNFRSF10B	HGS	PYCARD	CD28	NFS1	CCND1	ITGB1	VDAC1
MMP1	ELN		MYH9	GAA	ELAPOR1	PARP1	NEF2	TNFSF12	ITGB4	SIRT3

IKZF1	CASP1	CASP10	RPTOR	PMAIP1	APC	NEDD4L	IL2RA	ITPR1	TUBA1B
BSG	NOTCH1	SQSTM1	CBLB	PTGS2	TNFRSF10A	NCF2	PMAIP1	GAA	LINGO1
CEBPB	MAPK1	SOAT1	RAB7A	BECN1	FGFR1	MYB	RELA	GABARA	IDO1
TFAM	TRAF5	TNFRSF10A	PEBP1	IGF1	RAC1	MUC1	TNFRSF25	P	STK17B
PGF	TNFAIP1	HGF	PHLPP1	APP	WT1	MTOR	MAPK10	GABARA	HERPUD
TRIM21	TNFRSF13C	SRC	APOD	CDK1	MAPK14	MTDH	IGF1R	PL1	1
CEP55	IL17A	ANXA1	UBB	CD4	IL7	MTCH1	F10	GABARA	TFPT
CXCL8	SMAD4	CASP2	IFNAR1	DDFA	MITF	MT3	TET2	PL2	RUNX3
NLRX1	TNFAIP2	FPR1	RAB5A	TGFB1	VIM	MT1G	IGF1	GAPDH	SIRT2
SLC16A4	RELT	MIF	CLCN7	VEGFA	CXCL12	MT1DP	IL15	GNAI3	ENDOG
USF2	CBS	BCL2L1	DACT1	SEPTIN4	BCR	MMP13	JAK2	GNB2L1	BAD
IL32	MMP9	KL	NUMB	SQSTM1	APP	MMD	RNF34	GOPC	ATP12A
PIF1	FBN1	TNFRSF21	AQP2	PML	SYK	MLLT1	CLU	GRID1	PDE5A
SLC30A7	IFNA1	BMI1	CLDN5	CCND1	IL3	MIR9-3	SIRT1	GRID2	PSIP1
CHRFAM7	TERT	BBC3	MAP1LC3	HSPA5	FGFR2	MIR9-2	PTK2	KIAA0226	ATOH1
A	HBB	AVEN	A	BCL2L10	TSC2	MIR9-1	MAPK9	KIAA0652	TOP3B
MIR21	CD27	ZNF7	VPS33A	SOD2	ABCB1	MIR6852	IL1A	KIAA0831	MIR130A
MIR124-1	FOXE3	PTEN	TNK2	LDB3	NFE2L2	MIR4715	PIK3CG	KIF5B	PPP3R2
MIR200C	BAX	ESR2	CSNK1E	HTRA2	TFRC	MIR424	PML	KLHL24	PRDX6
MIR195	JUN	GSK3A	NCOA4	MAPK10	IRF1	miR-378a-	IL18	LAMP1	PRDX5
MIR485	TLR2	C5	ARL8B	BCL2L14	TRA	3p	CDK2	LAMP2	PDGFD
MALT1	MFAP5	SP1	ULK1	TRADD	KCNH2	MIR30B	HDAC9	MAP1LC3	SQLE
TLR2	NFKBIA	C9	UBE2D1	IL10	CD3E	MIR214	ICAM1	A	H2BC21
ICAM1	MAPK14	ATG5	SLC1A5	IL2	RELA	MIR212	DAPK1	MAP1LC3	H1-1
STK4	BCL2	C6	ABL2	SIRT1	FOS	miR-182-5	NFKBIA	B	GZMA
GSK3B	PLOD1	C7	MSTN	HINT1	CDK1	p	FOS	MAP1LC3	GPR87
PTGS2	CD14	CD74	MAP1LC3	CDK2	CD34	MIR17	TLR2	C	BCL2L2
MST1	CSF1	EGR1	B	ESR1	ENG	MIR137	BAG3	MAP2K7	RPS5
PRF1	MLKL	NOX4	SNAP23	RB1	TNFRSF1A	MIOX	IL3	MAPK1	UBE3C
PRMT5	BGN	RCN1	AGFG1	ACTA2	TP73	MAPK9	VDAC1	MAPK3	PRDX4
VTN	CHUK	MKRN1	GABRA1	IFNG	PRF1	MAPK8	CTLA4	MAPK8	MAPK13
ELAVL1	SMAD2	TNFSF12	VPS4B	PPP1R13B	CAV1	MAP3K5	BCL2A1	MAPK8IP	WNK3
MPEG1	ESR1	UHRF1	GABARA	DDIT3	CD247	MAP3K11	TXN	1	ADRB3
STING1	ACTA2-AS1	AIFM2	PL1	PIK3CG	MMP9	MAP1LC3	SRC	MAPK9	BIK
MIR204	PARP1	CTSB	GABARA	RELA	HLA-A	A	RIPK3	MBTPS2	H3C15
CDKN2B-	MAT2A	CD40LG	P	MAP2K1	CSF2	MAFG	PPP1R13B	MLST8	PLAAT4
AS1	EDAR	OGT	SBF2	TNFRSF25	SOD1	LYRM1	DFFB	MTMR14	BCL2L10
HOTTIP	IKBKB	BID	UBE2D3	PPARG	HMGB1	LURAP1L	CXCR3	MTOR	TDRD3
MIR141	JAG1	IFNB1	VAMP8	FLNC	GZMB	LRRFIP1	TNFRSF1B	MYC	SERPINB
MIR9-1	NOS2	IDI1	TAB3	CDKN1B	CSF3	LPIN1	TRAF1	NAF1	9
MIR455	MIR21	MIR155	VAMP7	IGF1R	FHIT	LONP1	IL5	NAMPT	ANKRD3
MIR9-2	MMP1	TLR3	ATP13A2	IL3	PTGS2	LOC39070	BIRC6	NBR1	6B
MIR9-3	HMOX1	KIAA1191	BACE2	AKT2	TSC1	5	CCL2	NCKAP1	MIOX
MIR497	F3	CYP3A4	MIR33A	OPA1	MMP2	LOC28456	DDIT3	NFE2L2	
LINC-ROR	TNFAIP8L2	PAK1	CALCOC	CXCL8	TP63	1	APP	NFKB1	
ABL1	SERPINE1	SGK1	O2	HRK	FOXP3	LINC0061	FAF1	NKX2-3	
EPHA2	MMP3	CDC7	RNF41	AATBC	MYD88	8	BRCA1	NLRC4	
HDAC6	RELA	IDO1	LGALS8	ABL1	TRB	LINC0047	IFI27	NPC1	
PPARG	COL3A1	SMN1	UBE2E1	NFKBIA	MLH1	2	PPARG	NRG1	
TLR3	CSF3	SMN2	GABARA	BCL2L13	CREBBP	LINC0033	STK4	NRG2	
SQSTM1	MAP3K5	CERK	PL2	CTNNB1	KLRK1	6	BCL10	NRG3	
CDK9	MED12	TRADD	UBE2D2	IL6	GATA2	LIG3	ATG5	P4HB	
IRF3	FBN2	TP63	CBLL1	BRCA2	CALM2	LCE2C	HMGB1	PARK2	
UCP1	TNFAIP8	IL1A	ULK2	TIA1	IGF1	LAMP2	MAP2K1	PARP1	
TREM1	INS	PADI4	SMCR8	TNFSF12	TLR4	KRAS	ABL1	PEA15	
TSLP	COMP	MIR214	RAB21	TET2	IGF1R	KLHL24	CDKN1B	PELP1	
ZDHHHC1	NGFR	MIR22	ATG13	IL1B	BTK	KIM-1	NGF	PEX14	
HNP1	NEK9	MIR221	STX5	SRC	IL1A	JUN	CTNNB1	PEX3	

PTEN	COL5A1	MIR101-1	MCOLN3	BRCA1	FN1	JDP2	RBI	PIK3C3
DRD2	MEFV	MIR485	VPS11	YWHAQ	CD19	ISCU	HSPB1	PIK3R4
ADORA1	BMP6	MIR101-2	MCOLN2	NR3C1	CCL2	INTS2	HMOX1	PINK1
ADORA2B	EDA	CTSD	VPS16	MAPK9	ICOS	IL33	ERBB3	PPP1R15A
ADORA2	TNFSF12-TNF	CLEC7A	SHFL	AKT3	CD8A	IL1B	CD40	PRKAB1
A	SF13	OTULIN	ILKAP	CBL	LHCGR	IFNG	TERT	PRKAR1A
ADORA3	GNPTAB	TRIM28	PDE1C	PTK2	EPO	IDH1	AR	PRKCD
OSM	NPM1	STAT3	EI24	PCNA	MAPK3	HSD17B1	ESR1	PRKCCQ
METTL3	COL5A2	PGAM5	PLEKHM1	CSEIL	HGF	1	EGF	PTEN
PECAM1	NDE1	HPRT1	MREG	TP63	THY1	hsa_circ_0	NR4A1	PTK6
METTL14	LOC10144820	FAP	CACYBP	JAK2	BIRC3	008367	STAT1	RAB11A
TRIM31	2	CHL1	FYCO1	YWHAE	HSP90AA1	HRAAS	TNFRSF11B	RAB1A
MIR25	LOC11393994	TRIM24	GPSM1	HSP90AA1	SLC4A1	HNF4A	TNFAIP3	RAB24
CAMP	4	TGFBR1	ROBO3	XAF1	SMARCA4	HILPDA	SOD1	RAB33B
NLRP6	TRAF4	CDKN2A	ACP2	HDAC9	TET2	HIC1	IFNA1	RAB5A
MRE11	FN1	SNCA	VPS18	DFFB	CDK6	HERPUD1	CHUK	RAB7A
FNDC4	GBA1	ACVR1B	MAEL	RIPK3	CD36	HELLS	F3	RAC1
FNDC5	IL1RAPL2	DDX58	SLC2A12	VDAC1	ALB	HCAR1	NFE2L2	RAF1
MAP3K7	EDA2R	PYGM	ATG4A	FOS	TLR2	HBA1	CAT	RB1
PARP1	HEY2	TARDBP	NLRP6	HSPB1	MIR20A	HAMP	PIK3CA	RB1CC1
USP8	F5	CCL2	LAMTOR	NFE2L2	POU5F1	GSK3B	YAP1	RELA
PRKN	GATA4	XRCC1	5	DYSF	MIR29A	GRIA3	PAK2	RGS19
GBP5	C1QTNF5	DPEP1	VPS41	BDNF	GFAP	GPX2	KRT18	RHEB
NR1H2	TRAP1	CHMP1A	SIGLEC15	HMGB1	B2M	GPT2	HRAS	RPS6KB1
MK167	GPT	UBR2	CTSV	PIK3CA	CD27	GPAT4	ERBB2	RPTOR
USP47	NOD2	GPX4	SCFD1	TCN2	FCGR3A	GLUT13	MPO	SAR1A
TCEA3	HGF	LAMP2	STX6	YWHAB	ITGB2	GDF15	CHEK2	SERPINA
IL36G	C1QTNF3	MPRIP	SEC22B	YAP1	CREB1	GCH1	TP63	1
IL36B	IL2RB	MTOR	MIR33B	BCL2A1	IFNA1	GABPB1	NR3C1	SESN2
TP63	CASP9	BRAF	MAP1LC3	PTPN11	ING1	GABARA	PCNA	SH3GLB1
IRF1	HIF1A-AS1	AFP	C	IL4	HMOX1	PL2	CD274	SIRT1
IRF2	SRFBP1	ACHE	KDM7A	EGF	CEACAM5	GABARA	RARA	SIRT2
PRTN3	MYLK-AS1	NFAT5	TIFAB	CD40	CCL5	PL1	TLR3	SPHK1
SERPINB1	LINC01389	CXCL1		PDCD6	PDGFRA	G6PDX	IKBKB	SPNS1
IL1A	SMAD6	VIL1		HMOX1	IL15	G6PD	YWHAB	SQSTM1
CHMP4B	TIMP1	SHARPIN		IL5	SOX2	FZD7	ALB	ST13
DUOX1	EP300	CBL		PRKN	ITGA4	FXN	ENDOG	STK11
APOL1	ELANE	MAPK1		PDCD5	FBXW7	FNDC5	HSPA4	TBK1
NLRP7	TANK	MAPK8		RNF7	MAPT	FLT3	MADD	TM9SF1
ANO6	SLC12A5-AS1	TBK1		F3	ITGB3	FH	HSP90AA1	TMEM49
BNIP3	CCL5	CTSH		TTN	ANXA5	Fer1HCH	CCNB1	TMEM74
XIST	C1QTNF9	GSN		VCP	NGF	FBXW7	ABCB1	TNFSF10
MIR107	IL2RA	RARG		FAF1	CALR	FBW7	CCNA2	TP53
MIR103A1	STAT3	BIRC3		MYH7	SPP1	FAR1	IFNB1	TP53INP2
MIR103A2	TINF2	CTSL		GSK3B	GBA	FANCD2	IRF1	TP63
FADD	CTLA4	CTSS		TNFRSF1B	MSH6	FADS2	PRPF8	TP73
VCAM1	GZMB	DSTYK		TLR4	PROM1	FADS1	HIPK2	TSC1
EZH2	ROBO4	RNF31		AR	CSF1	EPT1	MMP9	TSC2
DNMT1	PPARG	TNFRSF25		TXN	PRKCA	EPAS1	NOS2	TUSC1
DNMT3A	STAT1	CHUK		FOXO1	BAK1	ENPP2	CCL5	ULK1
DNMT3B	CREBBP	BUB1B		NGF	IL2RB	EMC2	SQSTM1	ULK2
BAX	C1QTNF1	IRAK1		SOD1	CCR5	ELOVL5	NLRP1	ULK3
CYCS	STING1	BDNF		CCNA2	IL13	EIF2AK4	YWHAQ	USP10
POLA1	IL12B	EIF2AK3		SYVN1	IGH	EGLN2	CDK4	UVRAG
BAK1	H19	HSPA8		CARD8	NOS2	EGFR	CD69	VAMP3
CHMP2B	ACAN	IFNG		ABCB1	ERBB4	DUSP1	DAPK3	VAMP7
EED	FGF2	IKBKG		CHUK	VWF	DUOX2	IRF3	VEGFA
PRIM1	TICAM1	MAPK3		ALB	NTRK1	DUOX1	TNFRSF12A	WDFY3

RBBP4	IGF1	NQO1	F10	CAT	DRD5	F7	WDR45
RBBP7	MIR155	TAB2	TRAF1	CLU	DRD4	MAP2K4	WDR45L
SUZ12	CERNA3	BECN1	CAV3	CEACAM1	DPP4	FCER2	WIP11
POLA2	SOD2	XBP1	RASGRP1	PMS2	DNAJB6	NGFR	WIP2
CHMP2A	HLA-A	TICAM1	EP300	ERBB3	DECR1	HSPA1A	ZFYVE1
PRIM2	IFNB1	RBCK1	MMP9	CD79A	DDIT4	PRKCA	
CHMP3	C1QTNF4	SOX17	DSP	E2F1	DDIT3	CDK5	
CHMP7	OTULIN	UBC	CAT	NGFR	DCAF7	PIK3R1	
CHMP6	IL15	BNIP3	STK4	SP1	DAZAP1	CD27	
H2AX	POLG	HSPA4	BRAF	SOX9	CYP4F8	WVVOX	
CHMP4A	B2M	TAB1	BNIP3	CASP1	CYBB	PRF1	
CHMP4C	LOC10050647	AGFG1	HDAC1	ENO2	CYB5R1	PIDD1	
H3-3A	2	TAB3	SH3KBP1	MMP1	CXCL2	PTPA	
H3-3B	AAT1	EIF2A	TGM2	ROS1	CS	IL13	
H3C1	ANXA5	MIB2	IGFBP3	CEP85L	CISD2	GSK3A	
H2AC20	TNFAIP8L1	TNIP2	CDK5	PLAU	CISD1	YWHAE	
H2AZ1	PSMD2	H1-5	RARA	LIG4	CircLL4R	ELANE	
H2BC21	MEG3	DIRAS3	IFNA1	DDX3X	CHP1	IGHE	
H4-16	AKT1	C20orf204	BCL10	MIR19A	CHMP6	CXCR4	
H4C1	F2	EGFR	IKBKB	MME	CHMP5	SMPD1	
H2BC4	PTX3	JAK1	MIR146A	IDH1	CEBPG	FOXO1	
H3C2	C1QTNF6	FLT3	IRF1	TNFRSF1B	CDO1	MAP3K7	
H3C3	IKBKG	IDH1	NOS2	MS4A1	CDKN2A	SP1	
H4C2	TNFAIP8L3	IDH2	YWHAZ	BIRC2	CDH1	PDCD1	
H2AC4	BMP2	HMOX1	BIRC6	TLX1	CDCA3	IL24	
H2BC5	CCL3	MMP13	IL2RA	DNMT3A	CD82	CDH1	
H3C12	NPPA	ATP2A1	PIK3R1	TGFB2	CD44	PRKN	
H3C4	CASP10	CAD	DAPK1	SELE	CAV1	CD8A	
H4C11	CCR6	CASP1	SP1	MK167	CARS1	IL17A	
H4C3	IRF1	DRD2	BAG3	HLA-G	CAPG	TFPI	
H4C8	ZFP36	EPAS1	RIPK2	IL17A	CA9	ATR	
H4C9	HLA-DQB1	G6PD	ENDOG	TGFA	BRPF1	STK11	
H2BC12	EGF	GJA1	TNFRSF11B	ALCAM	BRDT	EPO	
H2BC14	IL13	NPM1	STAT1	CDKN3	BRD3	KIT	
H2BC9	SOD1	TSC2	PPP1R13L	SNCA	BRD2	BDNF	
H3C10	MAP3K14	VCP	C1QBP	ICOSLG	BNIP3	CSF2	
H3C14	ACTA1	VIM	DNM1L	TCL1A	BLOC1S5	IGFBP3	
H4C12	NOS3	ACTB	MAP2K4	THPO	-TXNDC5	TNFSF11	
H4C14	HSP90AA1	AHR	CCNB1	SST	BID	HGF	
H4C5	BCL2L1	BAX	VHL	MYCN	BCAT2	BNIP3	
H2AC14	STAT4	EEF2	HIPK2	AURKA	BACH1	CASP12	
H2AC18	TYMS	KIF11	GSDME	TLR3	AURKA	STK3	
H2AC6	IL3	PTPN6	TERT	GSK3B	ATP6V1G	CAV1	
H2AC7	NAGLU	RPS19	PRKCA	CALM1	2	CCL3	
H2AJ	MIR221	YWHAE	F8	THBD	ATM	DNM1L	
H2AZ2	PTPN11	YWHAG	NR4A1	CD80	ATG7	NPM1	
H2BC1	REN	APC	CDK4	PDGFB	ATG4D	H2AX	
H2BC10	MIR146A	BAP1	NGFR	MIR93	ATG3	F2	
H2BC11	BDNF-AS	HSP90AB1	HSPA4	BMP6	ATG16L1	CRADD	
H2BC13	IRF3	HSPD1	HSPA1A	HDAC9	ATG13	SELL	
H2BC3	BGLAP	KRT18	ACTC1	BMP2	ATF2	YWHAZ	
H2BC6	MAPK3	LEF1	SCN5A	HSPA5	ASNS	C1QBP	
H3C11	SGCA	LRP1	TNFAIP3	THBS1	ARRDC3	TNFSF13B	
H3C6	CALCA	MAPKAPK2	PAK2	HLA-DQB1	ARNTL	FN1	
H3C7	TERC	NOD2	CREBBP	SERPINE1	AQP8	CXCL2	
H3C8	RTEL1	PIKFYVE	PDCD6IP	CHGA	AQP5	FLT3	
H4C13	RETN	PRDX1	IFI27	NTRK2	AQP3	SFTPD	
H4C4	JAK2	RANBP2	STK3	DSE	ANO6	FAM215A	

H4C6	MB	RPL11	IRF3	MPL	ANGPTL7	FAIM2
H2AC8	MAP3K7	SLC16A1	KRT18	IL5	AMN	PIM1
H2BC15	LITAF	TNNT2	ATG5	CSF1R	ALOXE3	CHEK1
H2BC17	ERAP1	TPM1	PSEN1	TYR	ALOX15B	PLK1
H2BC7	NR3C1	AFG3L2	YWHAG	CASP7	ALOX12B	ITPR1
H2BC8	MPO	CLTC	CXCR4	IL18	ALDH3A2	LGALS3
H2BU1	THBD	HIF1A	MAP3K1	CD209	ALB	SHC1
H3C15	MMP2	HSPA9	CSNK2A1	FYN	AGPS	SFRP1
H3C13	WRAP53	KRT1	TLR2	LEP	AEBP2	STAT6
H4C15	SELP	KRT14	KLHL9	MPO	ACVR1B	UNC5B
H2AB1	COL1A2	KRT5	IL13	CCND2	ACSL3	IER3
H2AC19	SLC22A12	KRT8	TAFAZZIN	NR3C1	ACOT1	PRKCI
RNF103-C	HIF1A	MYH14	ESR2	CTSD	ACO1	EP300
HMP3	C1QTNF2	NFS1	TPM1	G6PD	ACADSB	BCAP31
LOC10272	UMOD	NLRP3	BCL6	TNFSF11	ABCC1	PTPN13
4334	INSR	PINK1	PRPF8	ANK2		GSN
CAPN1	STEAP4	PPP1CB	PRF1	IL6ST		NOTCH1
VIM	CTNNB1	PRPS1	NLRP1	PLAUR		EZH2
JUN	APOE	PRSS1	CDH1	CCR6		DNASE1L3
RIPK3	C1QTNF7	RPL5	CTSD	CD2		CRP
MIR139	CASP4	SLC25A1	ATR	KRT19		JAK1
BRCC3	IFNGR1	SLC25A13	TSC2	CR2		YWHAG
BHLHE40	APOH	TNFRSF1B	PLK1	ITGAL		ESR2
BHLHE41	IL23R	TPM3	KIT	BAP1		RPS6KB1
ALK	RYR1	TRAF3	SLC25A4	HSPB1		VHL
CSNK1A1	C1QTNF9B	TUFM	PDCD10	ABCG2		GAPDH
BIRC3	BAK1	ARHGEF2	TNFSF13B	STAT5A		YWHAH
TFAP2A	CDKN2B-AS1	ATF4	ADA	BSG		CCR6
BIRC2	LCN2	CALM1	INS	GPC3		BRAF
E2F4	PTGS1	COPB2	CREB1	HSPA4		MMP2
UBE2D2	ACE2	DDX3X	PDCD1	ABCC1		CDK6
LY96	MIR7-3HG	DDX5	ACTN2	GAPDH		RFFL
GLMN	BID	EIF4EBP1	WWOX	MMP14		TNFRSF21
SUGT1	EDN1	FLNC	STK17B	TNFSF13B		CD40LG
IRGM	TLR9	HNRNPA1	YWHAH	TRG		NOS3
NLRP13	PTPRC	HNRNPA2B1	IL15	S100B		DEDD
SCAF11	IL12A	HSPA1A	BCR	CD81		TNNI3
ADAMTS9	PLA2G4A	IKBKE	DAPK3	F2		CASP8AP2
-AS2	CST3	IL4	PPIA	EPHA2		ACIN1
NINJ1	LINC01672	IRF3	MAPT	CD86		FGF2
TUBB6	OPTN	LTBP1	NOTCH1	IL21		BMP6
MYD88	MIR210	MYO5A	H2AX	ITGB4		PTPRC
TLR8	IL5	MYO6	EZH2	P2RX7		DNAJA3
APAF1	MIR130A	NUP214	ITPR1	CEACAM3		DAPK2
NOS1	STAC3	PABPN1	LGALS3	PTPN22		HLA-DRB1
NOS2	GHRL	PARK7	GDNF	PRKDC		LCK
PKN2	CD4	PFKL	EPO	MSN		LMNA
DPEP1	C1QTNF8	PKM	TNNT2	ACE		PCSK9
CHMP1A	EGFR	RIPK2	CDC25C	SELL		SPP1
PYDC2	FLNC	TET2	SMPD1	CEACAM6		GDF15
MUC20	IL18R1	TPM2	MAP3K7	VCP		F5
ACE2	IL6R	TRAF6	PRKCE	TJP1		IL9
EGFR	CPT2	TUBA4A	SPP1	TH		MIR146A
AKT1	CXCL10	TUBB4A	TLR3	ITGAV		ITGAL
ATF6	CAT	UBE2D3	DSG2	DPP4		INS
CASP9	FCGR3A	UGDH	ALOX5	ARID1A		PTPN11
ORMDL3	GSDME	CALM2	PRKCI	ATRX		BMP4
POP1	TLR3	CCT5	BMF	ITGA6		TOP1

LINC0095	PIK3CA	FUS	IL24	VDR	SERPINC1
8	IL11	KRT19	NPM1	HSPD1	HP
MIR4306	PRF1	LGALS3	FHIT	SELP	NTRK1
MDM2	EPO	MAP1B	ERBB3	SOD2	TIMP3
BTK	MIR34A	OPTN	PTPA	NES	ALOX5
BCL2	KITLG	PKP2	STK11	CD79B	ULK1
YWHAE	NTRK1	RPL35	TNFSF11	CCR7	GADD45A
ANXA2	TIMP3	RPS10	RPS3	MYLK	ANXA1
HSP90AA	SPP1	S100A4	CADM3	NANOG	MAP3K14
1	C4A	UBE2L3	SHC1	CACNA1A	MET
HSP90AB1	APOL1	XRCC6	CHEK1	GATA4	BCL2L12
IL1RN	PARN	ACTC1	RET	HSPG2	CREB1
RIPK1	UBC	AHSG	STIM1	PAR3	MIR210
IFIH1	NHP2	ASIC1	FOXP3	FANCD2	FGFR3
IRAK3	PROC	CADM1	SPHK1	IL12B	ODC1
MELK	LINC02605	EEF1A1	MFN2	CCL3	LYN
NEDD4	VDR	EMD	TCN1	PSAP	TMBIM4
NFS1	IL6ST	FLII	FGFR1	ETS1	KITLG
YWHAZ	RUNX2	GBE1	ATP1A1	FUS	BEX3
BECN1	HP	KRT10	GJA1	TNFRSF10D	FOXP3
CD14	BRAF	KRT16	GAPDH	AFP	KAT5
CHI3L1	HLA-C	KRT6A	CSF2	HLA-C	OLR1
STXBP2	APOB	LITAF	MADD	CD70	RET
TLR9	SMPD1	NDUFA4	PDCD4	TF	ITGAM
UBE2D3	RANBP2	NRIP1	LGALS1	MUC4	P13
GSTO1	CXCR3	PLEC	CD27	SHC1	VIM
RAB5A	PROS1	PNKD	JAK3	CXADR	CDC25C
TNFSF13B	KRT18	PPM1B	LCK	TOP2A	RAC1
ASIC1	MIF	PSMA3	IER3IP1	EGR1	BCL2L2-PA
HUWE1	CASP7	RBMX	JAK1	MBP	BPN1
LRPPRC	ADAMTS2	RPL15	RAC1	MIR27A	PLG
PANX1	DKC1	RPS14	CTSB	CIITA	MIR16-1
PDCD6IP	NOP10	RPS20	NUPR1	TNFRSF10C	BAG6
USP24	KRAS	RPS3	NTRK1	JAK1	GCG
ATG7	NFE2L2	S100A10	GSN	TBK1	UNC5A
IL13	MIR125A	SFPQ	GDF15	BMP4	ABCC1
CDC37	TYK2	SKP2	GSDMD	TNFRSF8	PRKCZ
ERP44	MATN3	SLC25A5	MKI67	TRAF6	ZC3H12A
IL18BP	PIK3C2A	STK38	CDKN3	NRG1	VCAM1
TRPM2	CCL4	TCOF1	F9	CYP1A1	IFIH1
VPS4B	HSPA1A	TCP1	VIM	KRT8	LTBR
ATG3	MIR29A	TUBB4B	TOP1	NOTCH2	NFKB2
BST2	SLC2A1	ULK1	SNCA	GRP	EGR1
IL13RA2	IRS1	VDAC2	RNASEL	CD47	EIF2S1
LYST	MT-CO1	XRCC5	MYBPC3	ITGAM	FGFR2
STXBP3	PSTPIP1	XRN2	TNFRSF21	CXCR3	DUSP19
GPER1	WNT5A	AP2S1	FLT3	CTNNA1	THBS1
NCR1	LBP	BANF1	CAV1	NUMA1	BMP2
VPS28	NLRP3	CALM3	ERN1	GNAS	SOCS3
IL27	CCR1	CALU	ICAM1	BMI1	FANCD2
CLEC5A	MIR122	CAPZA1	ATF2	TIMP1	ARFGEF2
SEC22B	TRPS1	CNBP	TRAF6	CD55	PTK2B
SIGLEC14	MALAT1	COPA	FAM215A	NEDD9	MKI67
CGAS	CDKN2A	CUL4A	BAG1	ELANE	MLKL
MIR15A	TGFA	HNRNPU	BCAP31	EPAS1	ACHE
	POLG2	KHDRBS1	CXCL12	SCN4A	CSF3
	SOD2-OT1	KLF6	PLEKHF1	PDX1	XBP1
	SELL	KRT2	TNNI3	MAP2	TIMP1

ADAMTSL2	KRT7	EIF5A	F3	PDPK1
VWF	KRT9	PIMI1	PNP	CXCL12
FOS	LGALS1	F2	IL4R	CCND3
PRKN	MYO1C	EIF2AK2	CALCA	IL7
HAVCR1	NCL	KDR	NFATC2	SUMO1
MYD88	NSUN2	PKP2	HLA-DPB1	FASN
IFNA2	PABPC1	UACA	NFATC1	PSEN1
MMP13	PCBP1	FGF2	SEMA3A	MAPT
MIR214	PCMI	NDRG1	BCAP31	FAIM
MTHFR	PRPF8	TRAF3	FGF1	NDUFS4
THSD4	RNGTT	MYH6	IRF4	HSP90AB1
CREB1	RPL10A	TMEM43	CXCL10	NLRP3
MAPKAPK2	RPL13	IKBKG	CHAT	MIR223
MT-ND6	RPL13A	CD274	PRKCB	FCMR
MMP12	RPL22	FUT2	CR1	MEF2A
TREX1	RPL26	LMNB1	KLF4	MIR590
SH2D1A	RPL27	IER3	PARK7	F9
PPARA	RPL7	PIDD1	NLRP3	EIF2AK3
IL32	RPL7A	PTPMT1	CD33	MIR142
BIRC5	RPS12	MT-CYB	ITGA2	SYK
MIR132	RPS13	DMD	BGLAP	MYCN
CCL11	RPS17	F11	PTHLH	TGFBR1
POMC	RPS24	CARD16	PVR	HSPA8
ADAM10	RPS26	SFN	CD46	TGFA
PIK3CG	RPS27	MET	NTRK3	SIAH1
CTC1	RPS6	HSP90AB1	PLA2G6	NUMA1
ADA2	S100A6	ACIN1	ANPEP	IRS1
PECAM1	SLC25A10	YY1	ATR	STAT5B
GAPDH	SLC30A9	BAG6	CD69	ACE
F10	TANK	PTPN13	MIF	PLAUR
DNM1L	TNFRSF8	TNFRSF12	HFE	RHOA
CASP5	TUBA1B	A	BECN1	TMBIM1
SERPINC1	TUBA1C	TAF6	FCGR2B	SMAD7
TONSL	AGO2	ACHE	ADAM10	FGFR1
MIR146B	AP2B1	CRADD	CD38	NOX4
SRC	ATAD3A	CDK6	PDPN	MALT1
USB1	BCLAF1	MDM4	CYP2A6	CD80
SP1	CCT3	XBP1	CA9	MIR155
OLR1	DNAJA1	NOS3	LEPR	DEDD2
CASP2	DYNLL1	CCL2	AHR	BCL2L15
MAP3K1	EIF4B	LAMP2	LGALS1	DDX3X
MYC	ELAVL1	PPM1D	NEUROD1	GDNF
IKZF1	IGF2BP3	MIR499A	KIR2DL3	PAK1
MIR222	IVNS1ABP	HSPD1	CD59	PRDX2
CTSK	MAP1LC3A	SUMO1	IFNB1	LCN2
ITGB3	PAWR	STK24	XRCC5	SFPQ
SLC17A5	PDIA4	BNIP3L	GLB1	SFRP2
ELP1	PSMC4	BMP6	TRD	SMPD2
FGFR1	PYCARD	CD40LG	HBG1	EDN1
SERPINA1	RPL12	HGF	IDO1	ITK
IGFBP3	RPL23A	CAST	F5	CYLD
RTEL1-TNFRS	RPL3	NKX2-5	CP	GSTP1
F6B	RPL4	CSNK2A2	ITGA2B	NTRK2
DSPP	RPL9	MIR155	TXN	TRAF5
CD36	RPLP2	STAT5A	CASP6	SERPINE1
CD8A	RPS23	ABCC1	CD68	ITGAV
LIF	RPS29	PPP1R15A	H2AX	CXCL5
ENG	SLC25A6	DYNLL1	HSPA8	IFI6

BMP7	SNRPE	JUP	CD14	TNFRSF8
IBSP	SRSF1	MEF2A	NECTIN1	CD36
ACPS5	SVIL	TMBIM6	KIR2DL1	P2RX7
THBS1	TUBB6	MAPK11	RPS27A	HTT
AGER	CCNT1	FGFR3	GRN	AGER
SMAD5-AS1	CCT6A	STYXL1	SMN1	SMAD2
LPL	CCT8	SREBF1	TTR	NRG1
APOA1	DDX17	RPS6KB1	SERPINA3	CBL
IRAK1	DNAJA2	MPZ	MMP3	S100A9
ITGAM	FIP1L1	BMP4	XRCC6	SPTAN1
LOC10028732	HSPA1B	LRP2	NT5E	PROC
9	IGF2BP1	F5	PSCA	CCR5
ARSB	IL24	TIMP1	BRD4	ATG14
EGR1	IQSEC1	PRKCB	MYL2	LEP
SCARB2	MVP	SOCS3	IL11	PRKCCQ
ITGB2	MYL6	CAPN2	RIPK3	F2R
FCGR2A	PDLIM7	CTLA4	AREG	NRP1
OGA	RIOK1	JAG1	COL2A1	SKP2
MIR181A1	RPS16	CD69	VTCN1	PHLPP1
MET	SF1	MLH1	TNFRSF11A	SET
MBL2	SSBP1	MAPK8IP1	CALM3	PIK3C2A
MIR223	SYNCRIP	MIR34A	ELN	DAB2IP
MMP8	ADAMTSL4	CASP8AP2	FGFR4	MIR199A1
ALOX5	BAG2	KAT5	CD22	GADD45B
PTH	CEP170	SOS1	PLAT	IGF2
BPI	CLINT1	FGFR2	C3	APEX1
RIGI	COPS2	MMP2	TGM2	MYH6
SAMHD1	CPSF3	MT-RNR2	ALPP	IAPP
MIR23A	CPSF6	GDAP1	TLR7	IL4R
EXT1	GOSR1	PCSK9	MYH9	MIR19B1
CDH23	HNRNPF	PRKD1	EIF2AK3	PRKAA1
CYLD	HNRNPH1	CDK11B	CD99	PRNP
RB1	HNRNPH3	FASN	ANTXR2	ITGB1
ANGPT1	HNRNPL	DAPK2	ANXA2	PRKDC
MECOM	HNRNPM	GORASP1	VIP	NOS1
AFP	HOOK1	OPTN	ANXA1	RB1CC1
DVL3	KRT86	IRS1	POLE	ROCK1
CCL20	LARP1	ACVR1	APOB	GOS2
SIL1	LRRFIP2	S100A9	AGER	HMGCR
CDKN3	MPP1	ATRAID	LTA	PPARA
PRL	MRPS12	VWF	RHD	CREBBP
FABP1		DES		CAPN1
MIR145		NQO1		
IL33		MYL3		
MMP14				
BAG4				
IL7				

Table SII. Correlation between cell death gene signature genes and immune parameters in breast cancer.

Gene	CD8 ⁺ T-cell infiltration		M1 macrophage abundance		Immune score	
	Correlation coefficient	P-value	Correlation coefficient	P-value	Correlation coefficient	P-value
ANO6	-0.228	1.2 x 10 ⁻⁵	-0.415	1.6 x 10 ⁻⁴	-0.365	2.3 x 10 ⁻⁶
PLK1	-0.365	4.5 x 10 ⁻⁸	-0.215	6.4 x 10 ⁻³	-0.124	0.012
SLC7A5	-0.334	3.9 x 10 ⁻⁷	-0.103	0.023	-0.401	9.1 x 10 ⁻⁷
TUB1C	-0.369	3.6 x 10 ⁻⁷	-0.296	4.6 x 10 ⁻⁴	-0.327	8.6 x 10 ⁻⁶
TCN1	0.234	2.9 x 10 ⁻⁵	0.265	3.2 x 10 ⁻⁵	0.309	7.4 x 10 ⁻⁶