

Table S1 Ferroptosis-related genes

ACSL4	RB1	ATG7	GPT2	SLC2A8
AKR1C1	HSF1	ALOX12B	PSAT1	SLC2A12
AKR1C2	SQSTM1	ALOX15B	LURAP1L	GLUT13
AKR1C3	MUC1	ALOXE3	SLC7A5	SLC2A14
ALOX15	SLC3A2	G6PDX	HERPUD1	EIF2AK4
ALOX5	SLC40A1	ULK1	XBP1	TFAP2C
ALOX12	FTMT	ATG3	ZNF419	SP1
ATP5MC3	HSPA5	ATG4D	KLHL24	HBA1
CARS1	ATF4	BECN1	TRIB3	NNMT
CBS	HELLS	MAP1LC3A	ZFP69B	PLIN4
CD44	SCD	GABARAPL2	ATP6V1G2	HIC1
CHAC1	SRC	GABARAPL1	VEGFA	STMN1
CISD1	STAT3	ATG16L1	GDF15	RRM2
CS	PML	WIPI1	TUBE1	CAPG
DPP4	MTOR	WIPI2	ARRDC3	HNF4A
FANCD2	TP63	SNX4	CEBPG	NGB
GCLC	CDKN1A	ATG13	SNORA16A	YWHAE
GLS2	MIR137	ULK2	RGS4	GABPB1
GPX4	ENPP2	EGFR	BLOC1S5-TXNDC5	AURKA
HSPB1	FH	MAPK3	LOC390705	MIR4715
LPCAT3	CISD2	MAPK1	EIF2S1	RIPK1
MT1G	MIR9-1	BID	KIM-1	PRDX1
NCOA4	MIR9-2	CDKN2A	IL6	MIR30B
PTGS2	MIR9-3	SOCS1	CXCL2	SLC1A4
RPL8	ISCU	CDO1	RELA	PCK2
SAT1	OTUB1	MYB	HSD17B11	TXNIP
SLC7A11	LINC00336	MAPK8	AGPAT3	MIOX
TFRC	BRD4	MAPK9	SETD1B	TAZ
TP53	PRDX6	MAPK14	FTL	MTDH
EMC2	MIR17	LINC00472	MAFG	IDH1
AIFM2	SESN2	PRKAA2	IL33	SIRT1
PHKG2	NF2	PRKAA1	HAMP	FBXW7
ACO1	ARNTL	ELAVL1	DRD5	PANX1
FTH1	JUN	BAP1	DRD4	DNAJB6
STEAP3	CA9	MIR6852	MAP3K5	BACH1
NFS1	TMBIM4	ACVR1B	SLC2A1	LONP1

Table S1 (continued)

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<i>ACSL3</i>	<i>PLIN2</i>	<i>TGFBR1</i>	<i>SLC2A3</i>	<i>VLDLR</i>
<i>PEBP1</i>	<i>MIR212</i>	<i>EPAS1</i>	<i>SLC2A6</i>	<i>TF</i>
<i>ZEB1</i>	<i>Fer1HCH</i>	<i>HILPDA</i>	<i>CAV1</i>	<i>TNFAIP3</i>
<i>FADS2</i>	<i>LAMP2</i>	<i>HIF1A</i>	<i>GCH1</i>	<i>TLR4</i>
<i>NFE2L2</i>	<i>ZFP36</i>	<i>IFNG</i>	<i>DUSP1</i>	<i>ATF3</i>
<i>KEAP1</i>	<i>PROM2</i>	<i>ANO6</i>	<i>NOS2</i>	<i>ATM</i>
<i>NQO1</i>	<i>CHMP5</i>	<i>LPIN1</i>	<i>NCF2</i>	<i>YY1AP1</i>
<i>NOX1</i>	<i>CHMP6</i>	<i>HMGB1</i>	<i>MT3</i>	<i>EGLN2</i>
<i>ABCC1</i>	<i>NOX5</i>	<i>LOC284561</i>	<i>UBC</i>	<i>TFR2</i>
<i>SLC1A5</i>	<i>DUOX1</i>	<i>ASNS</i>	<i>ALB</i>	<i>SLC38A1</i>
<i>GOT1</i>	<i>DUOX2</i>	<i>TSC22D3</i>	<i>TXNRD1</i>	<i>ATG5</i>
<i>G6PD</i>	<i>VDAC2</i>	<i>DDIT3</i>	<i>SRXN1</i>	<i>CYBB</i>
<i>PGD</i>	<i>PIK3CA</i>	<i>JDP2</i>	<i>GPX2</i>	<i>NOX3</i>
<i>IREB2</i>	<i>FLT3</i>	<i>SELENOS</i>	<i>BNIP3</i>	<i>NOX4</i>
<i>HMOX1</i>	<i>SCP2</i>	<i>ANGPTL7</i>	<i>OXSRI</i>	<i>KRAS</i>
<i>ACSF2</i>	<i>NRAS</i>	<i>DDIT4</i>	<i>HRAS</i>	

**Table S2** The prognostic ferroptosis-related DEGs

<i>STEAP3</i> : six-transmembrane epithelial antigen of the prostate 3
<i>MAP1LC3A</i> : microtubule associated protein 1 light chain 3 alpha
<i>ULK2</i> : unc-51 like autophagy activating kinase 2
<i>MTOR</i> : mechanistic target of rapamycin
<i>TUBE1</i> : tubulin epsilon 1
DEGs, differentially expressed genes.

**Table S3** Coefficient values of nine selected genes

Gene	Coef
<i>STEAP3</i>	0.792069519
<i>MAP1LC3A</i>	-1.220253731
<i>ULK2</i>	-0.613522324
<i>MTOR</i>	0.40441111
<i>TUBE1</i>	-0.347512278