

RNA-seq				
Gene name	Gene symbol	Expression in shZNF643 cells		Role in ferroptosis
H2073				
Transcription Factor AP-2 Alpha	TFAP2A	upregulated		suppressor
SKMES				
Activating Transcription Factor 3	ATF3	downregulated		driver/unclassified
Dual Oxidase 1	DUOX1	downregulated		driver
Interleukin 1 Beta	IL1B	downregulated		driver
MYB Proto-Oncogene, Transcription Factor	MYB	downregulated		driver
Cyclin Dependent Kinase Inhibitor 1A	CDKN1	downregulated		suppressor
Nuclear Receptor Subfamily 4 Group A Member 1	NR4A1	downregulated		suppressor
Nuclear Protein 1, Transcriptional Regulator	NUPR1	upregulated		suppressor
Solute Carrier Family 2 Member 3	SLC2A3	downregulated		unclassified
ChIP-seq				
	Gene name	Peak overlap / Closest TSS	Log2foldchange	Role in ferroptosis
ELOVL Fatty Acid Elongase 5	ELOVL5	Overlap symbol	3.02	driver
F-Box And WD Repeat Domain Containing 7	FBXW7	Overlap symbol	1.78	driver
Peroxisome Proliferator Activated Receptor Gamma	PPARG	Overlap symbol	3.52	driver
ZNFX1 Antisense RNA 1	ZFAS1	Overlap symbol	3.61	driver
Dipeptidase 1	DPEP1	Closest TSS	5.53	driver

Supplemental Table S1. Ferroptosis-related genes deregulated or bound by ZNF643. The table represents DEGs identified in shZNF643 lung cell lines (H2073 and SKMES) and ZNF643-bound genes (in SKMES cell line) with known function in ferroptosis.