









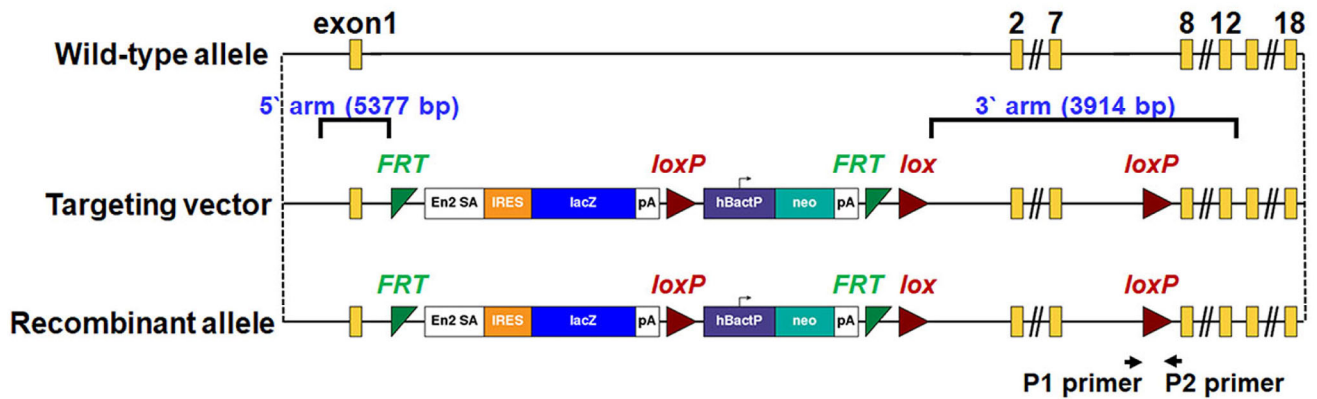


Supplementary Figure S1.

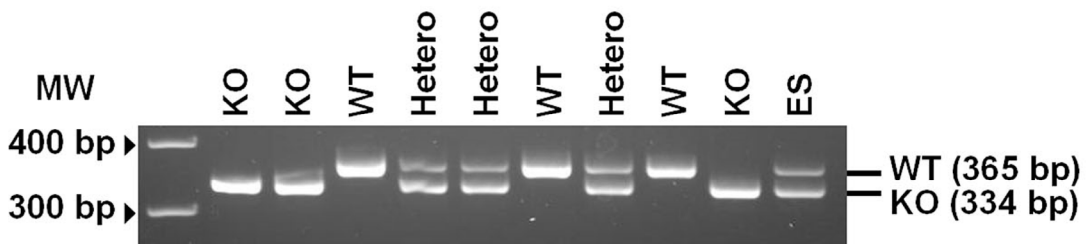
A

Genes	Proteins	Protein Alignments
<i>GLS2, H.sapiens</i>	NP_037399.2 602 aa	
<i>GLS2, P.troglodytes</i>	XP_509148.2 602 aa	 99%
<i>GLS2, M.mulatta</i>	XP_001115245.1 602 aa	 98%
<i>GLS2, C.lupus</i>	XP_003431516.1 602 aa	 96%
<i>GLS2, B.taurus</i>	NP_001179203.1 574 aa	 91%
<i>Gls2, M.musculus</i>	NP_001028436.2 602 aa	 94%
<i>Gls2, R.norvegicus</i>	NP_001257715.1 602 aa	 94%
<i>gls2, X.tropicalis</i>	XP_002934555.2 592 aa	 73%
<i>gls2, D.rerio</i>	XP_001345099.5 613 aa	 74%
<i>si:dkey102c8.6, D.rerio</i>	NP_001077294.1 542 aa	 71%

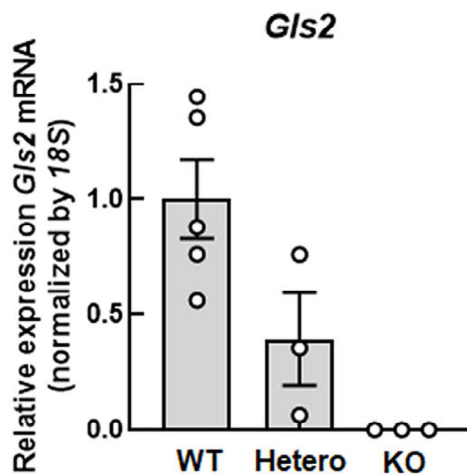
B



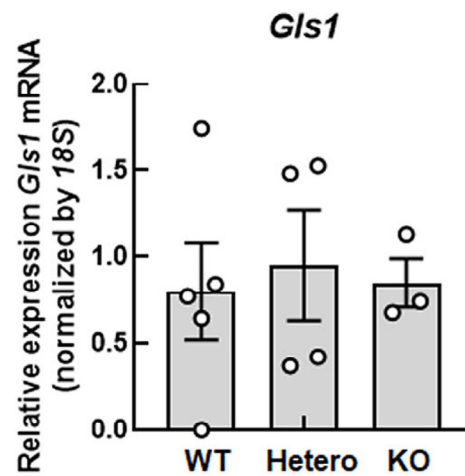
C



D

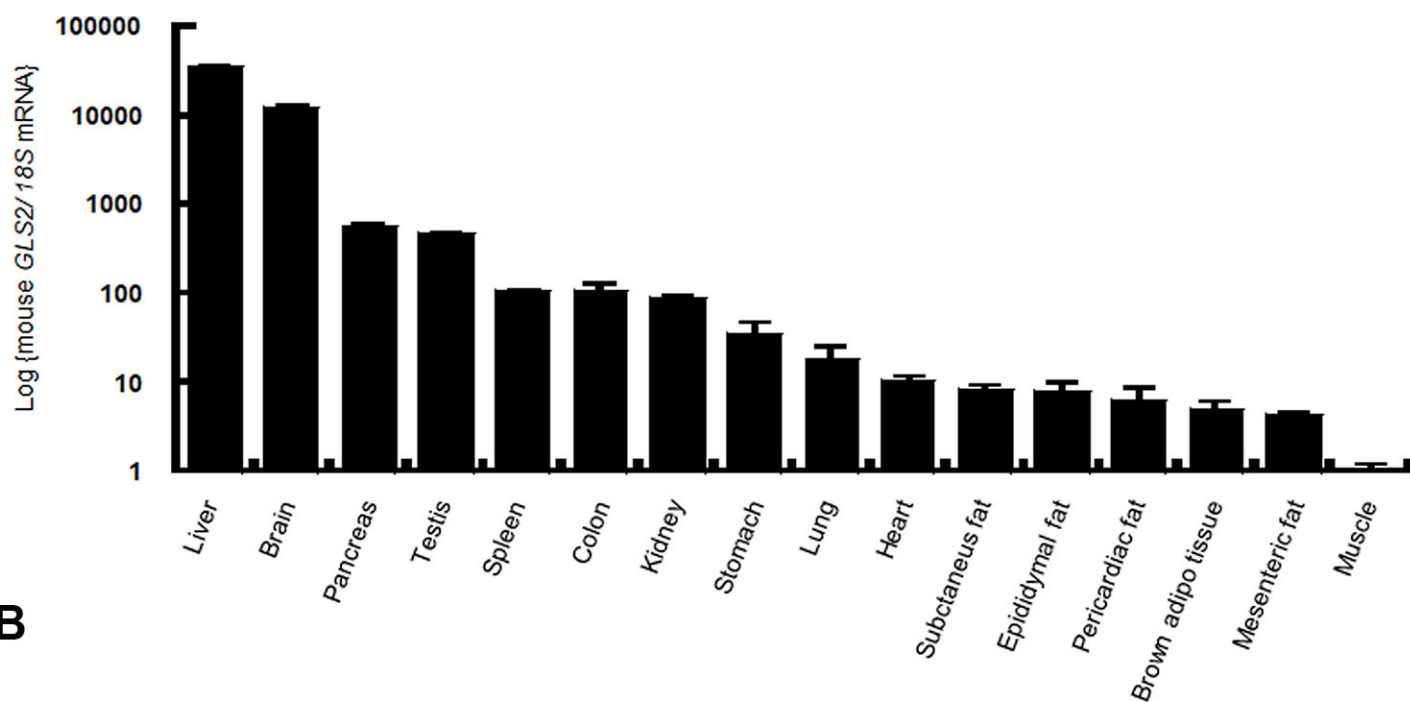


E

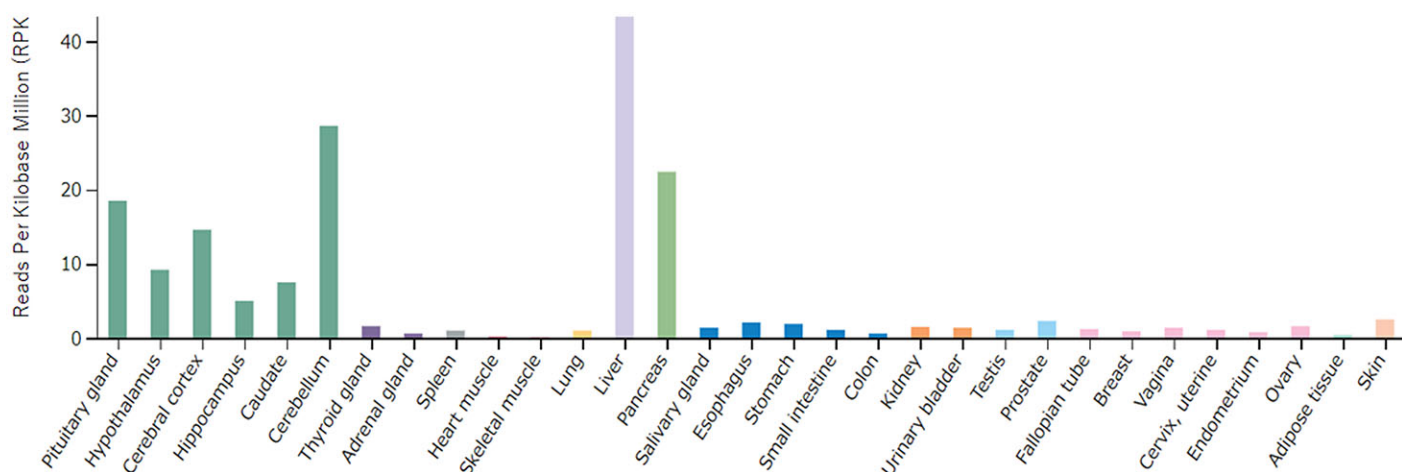


Supplementary Figure S2.

A



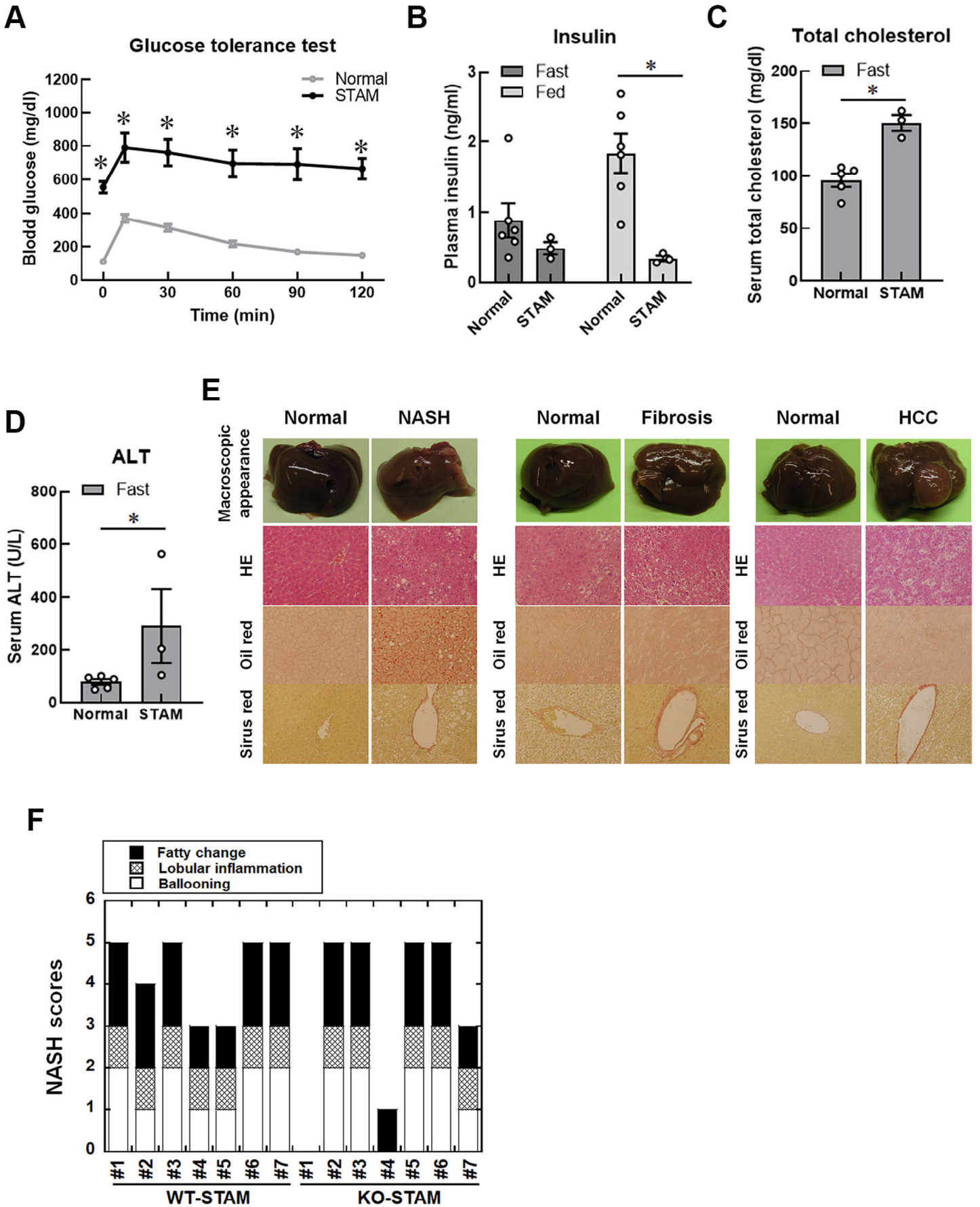
B



C

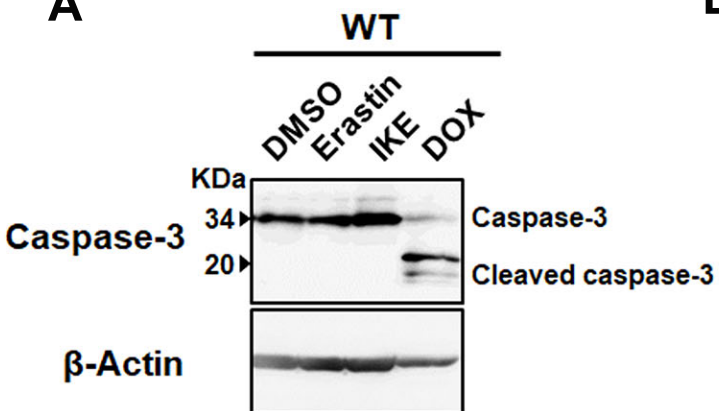
Genotype	Mendelian frequency (%)	Observed frequency (%)	Number of Mice (n)
WT	25	26	94
Hetero	50	50	183
KO	25	24	87

Supplementary Figure S3.

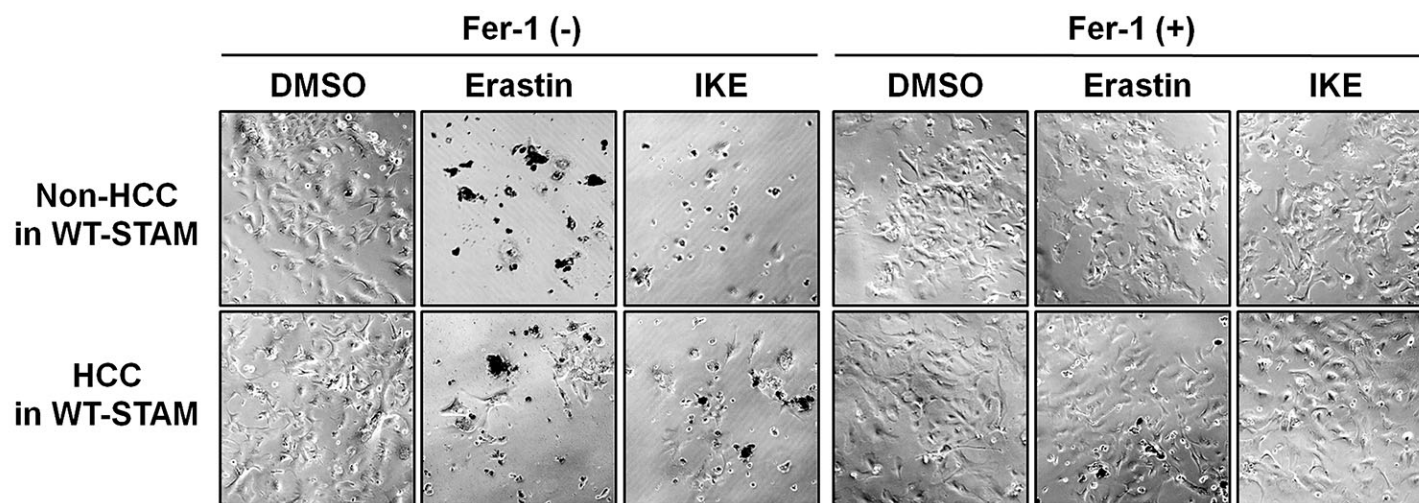


Supplementary Figure S4.

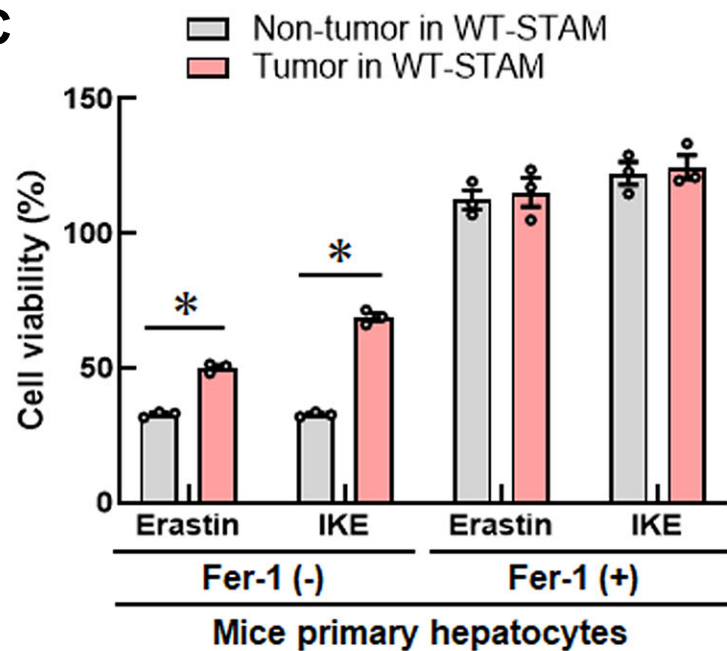
A



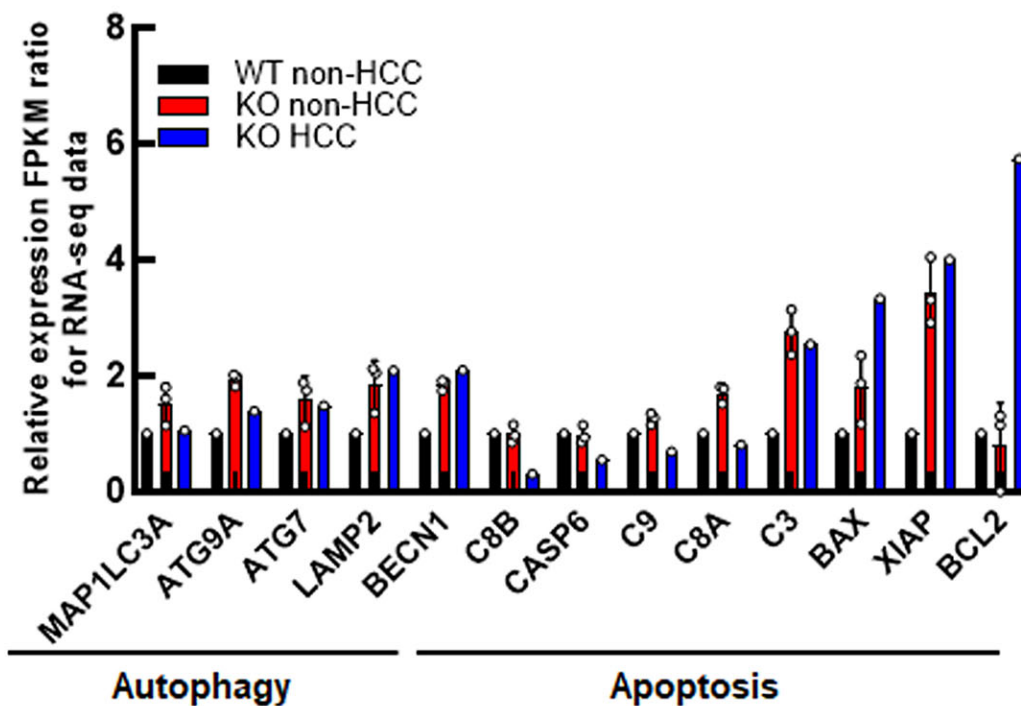
B



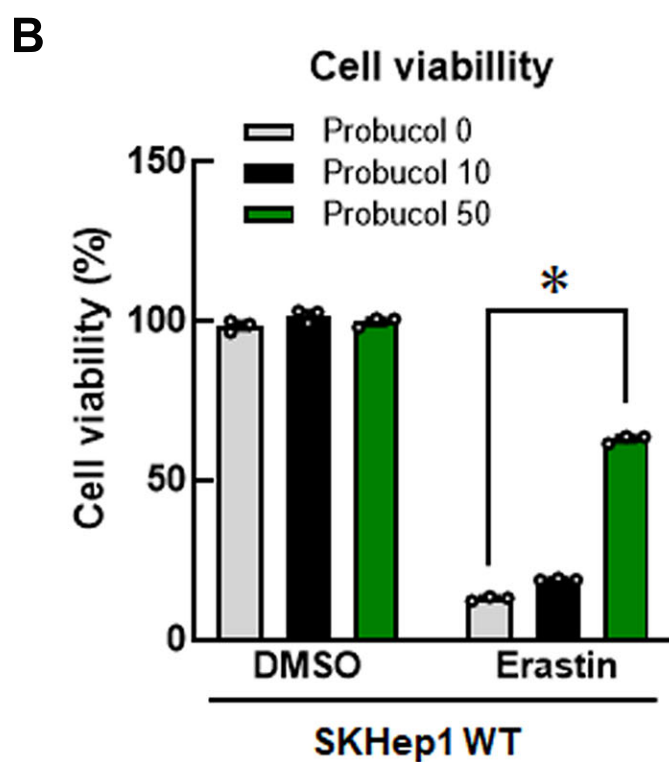
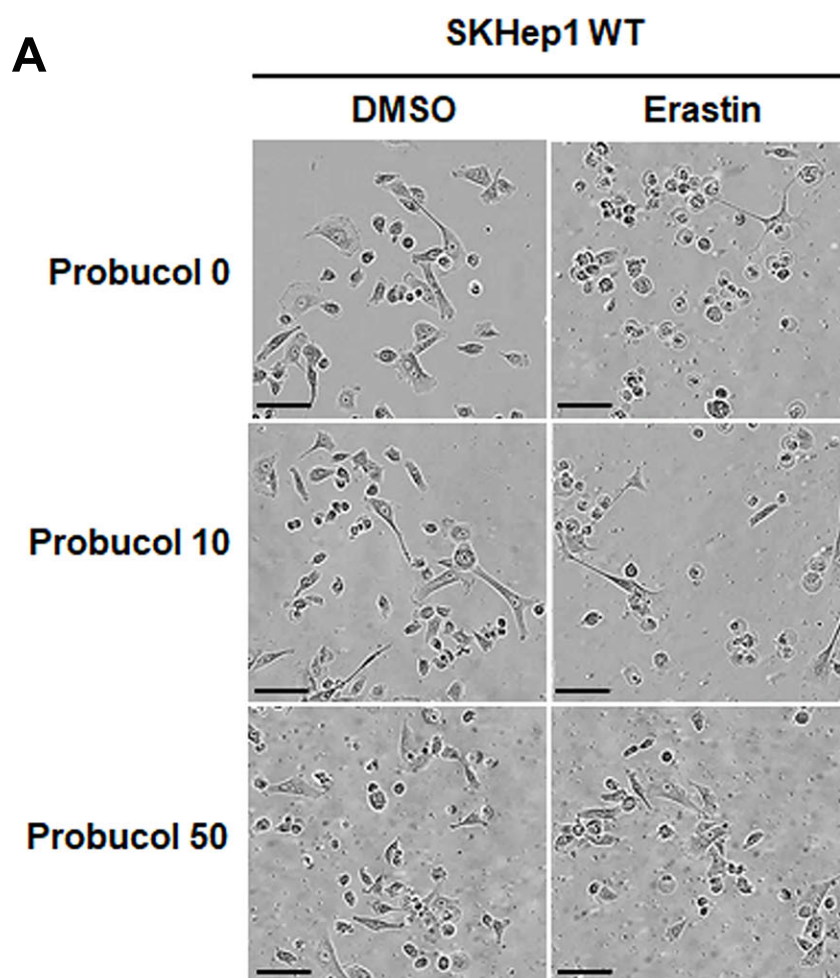
C



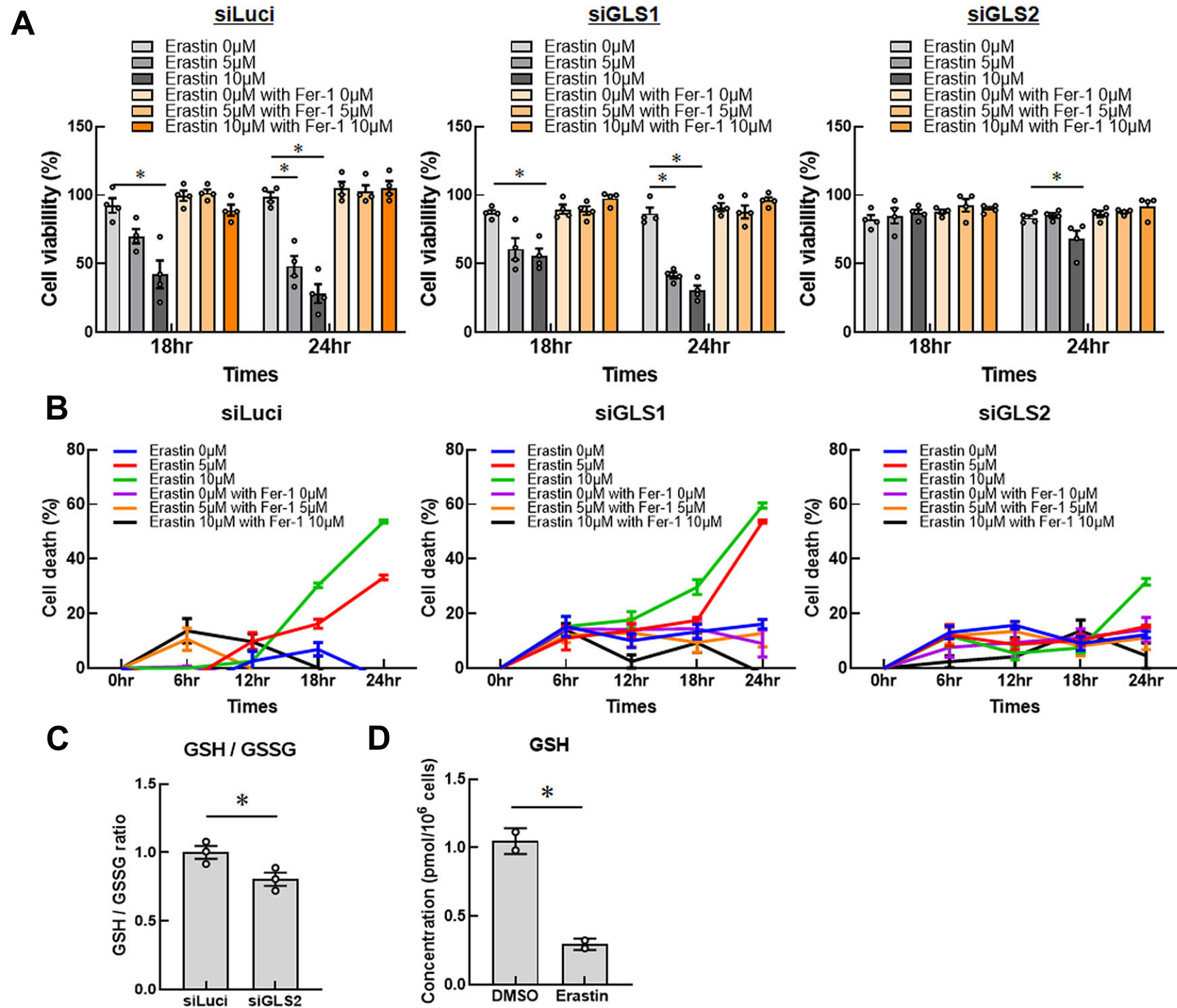
D



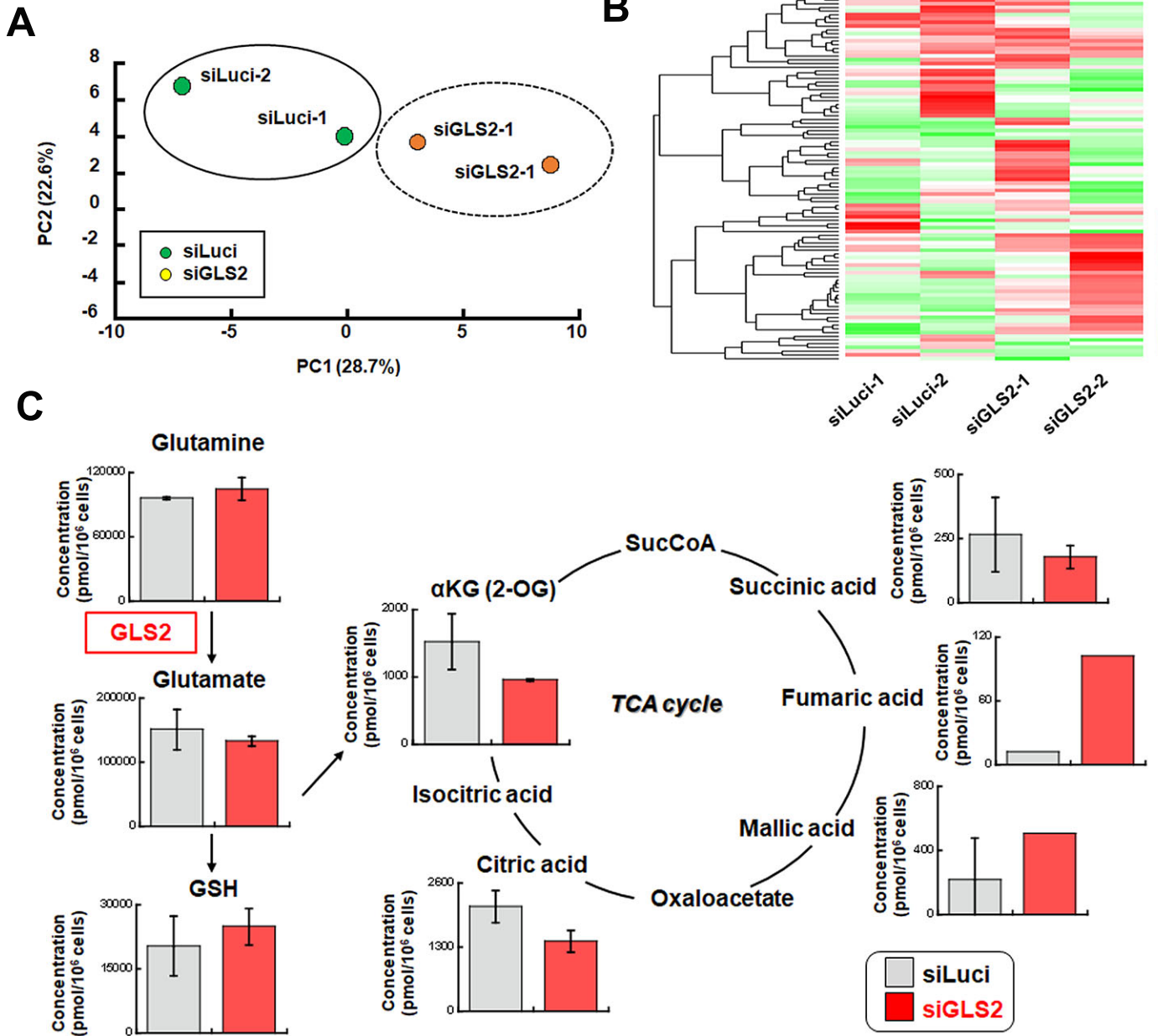
Supplementary Figure S5.



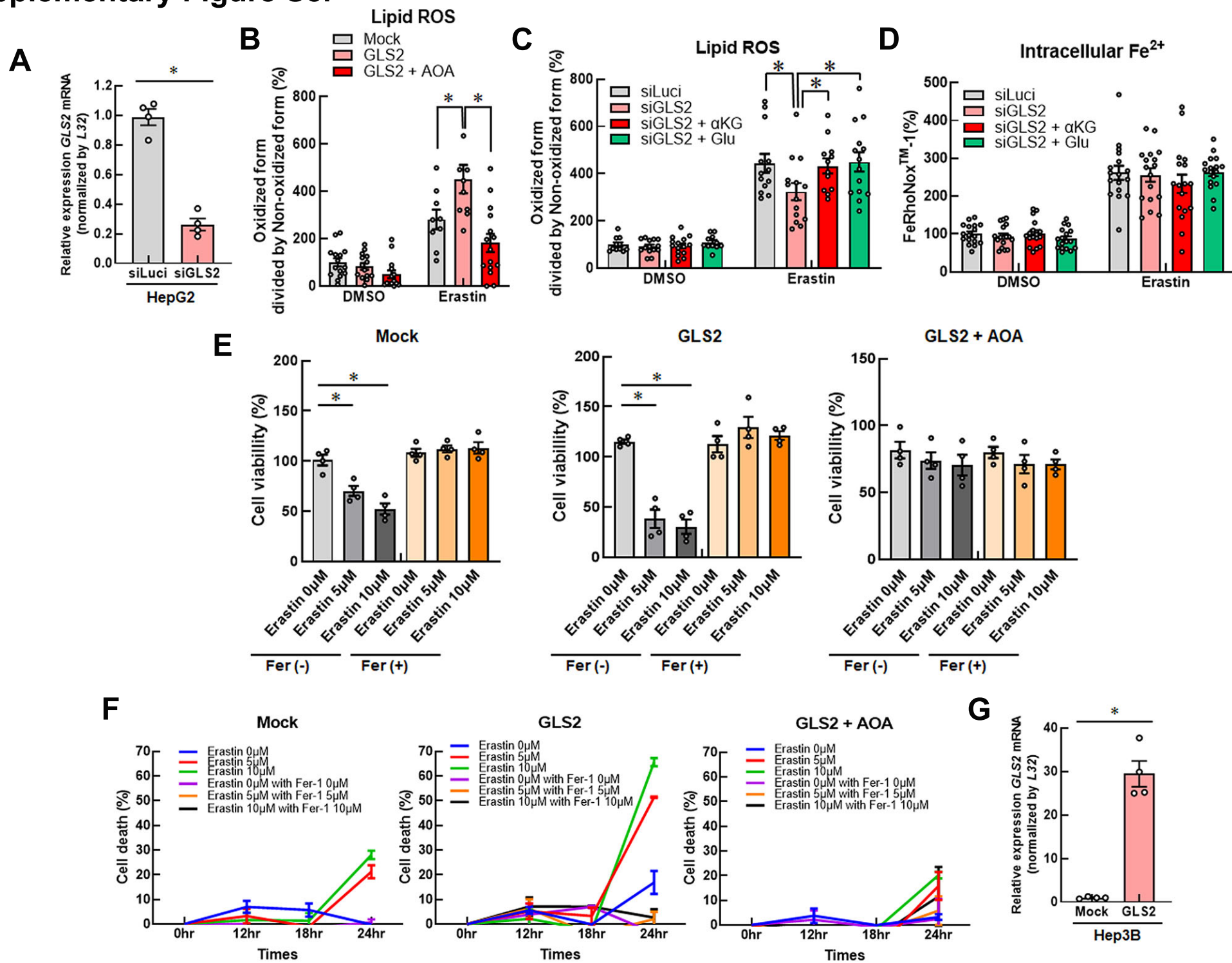
Supplementary Figure S6.



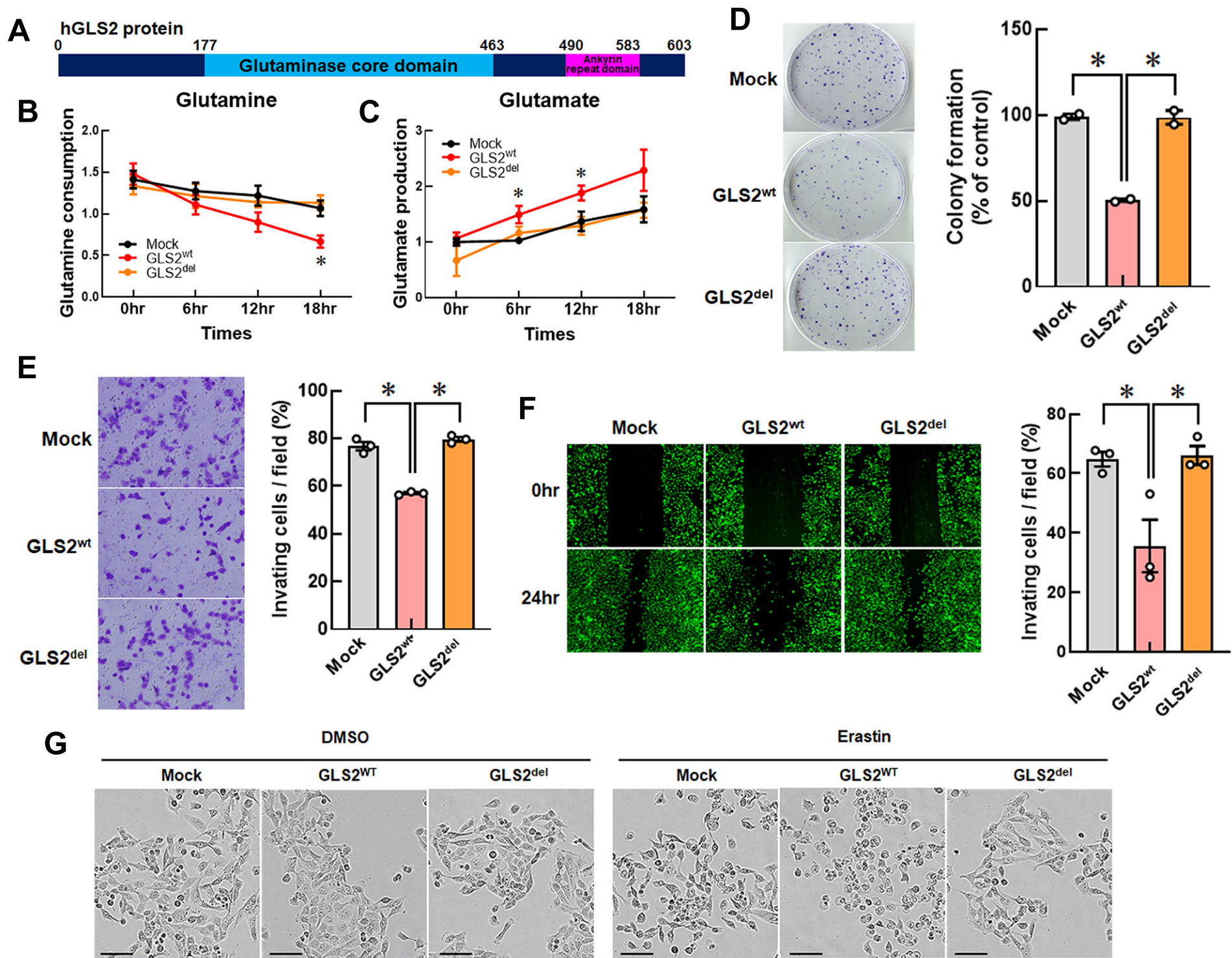
Supplementary Figure S7.



Supplementary Figure S8.

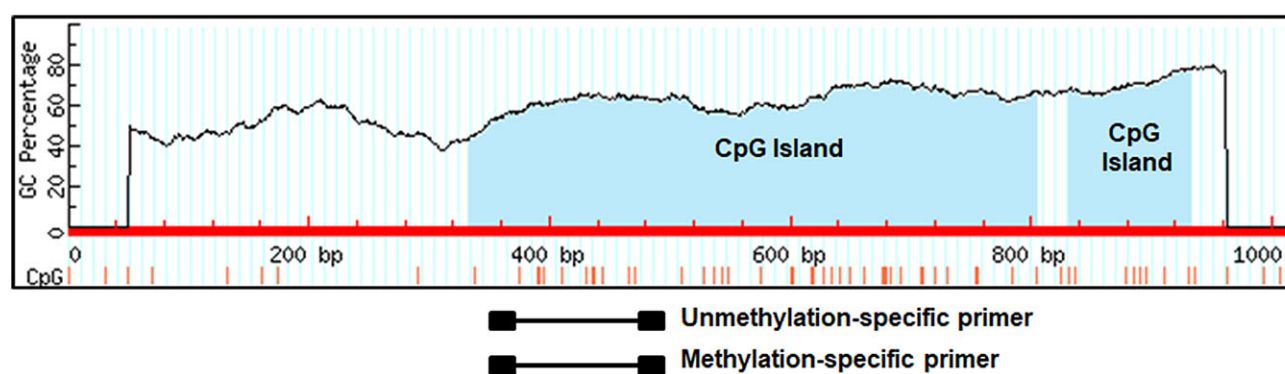


Supplementary Figure S9.

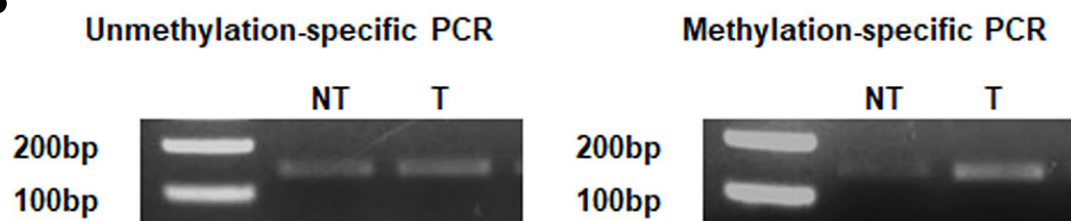


Supplementary Figure S10.

A



B



Supplementary Figure S11.

