

Supplemental Information

Selenium Utilization by GPX4 Is Required to Prevent Hydroperoxide-Induced Ferroptosis

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Table S1. Genotyping of Embryos at Different Gestational Days Obtained from Heterozygous *Gpx4*^{cys/wt} Breedings on a *C57BL/6J* Background, Related to Figure S1

stage	wt/wt	wt/cys	cys/cys	resorption	total
E9.5	5 (21.7%)	14 (61.9 %)	4 (17.4%)	0	23 (100%)
E10.5	9 (33.3%)	13 (48.3%)	5 (18.4%)	1	27 (100)
E11.5	8 (28.6%)	16 (57.1%)	4 (14.3)	3	28 (100%)
E12.5	2 (25%)	5 (62.5%)	1 (12.5%)	2	8 (100%)

Embryos obtained from heterozygous *Gpx4*^{cys/wt} breedings (on a *C57BL/6J* genetic background) were isolated at different times of gestation ranging from E9.5-E12.5. Intrauterine resorptions increased by E11.5 indicating that homozygous *Gpx4*^{cys/cys} embryos die around E11.5.

Table S2. PCR Primers, Related to Key Resource Table

Oligonucleotides	Sequence (5' - 3')
Ascl (fwd)	AGGAAGGCGCGCCCTCGCCGGAT
Cys-Gpx4 (rev)	TCAGTTTTGCCGCATTGCGAGGCCACGT
Cys-Gpx4 (fwd)	ACGTGGCCTCGCAATGCGGCAAACTGA
Sbfl (rev)	CTTCCTGGCTCCTGCAGGAAGCAAC
Neo_2 (fwd)	GCGATGCCTGCTTGCCGAATATCAT
Neo_2 (rev)	TTGCTACAATCATGGGCCAGACGGA
Gpx4_mut (fwd)	CATGGTCTGCCTGGATAAGTACAGGT
Gpx4_mut (rev)	CTTGGAAGATACACTACACTGTACACTG
Gpx4_1 (fwd)	GTTTAAGGATGGTGGTGGTAACCTGCTAG
Gpx4_2 (fwd)	GTGGTATCATTAGCTTTAGAAT
Gpx4_3 (rev)	ACTTAGCCCATAGTCCTAAGATCAC
Gpx4_4 (rev)	CTCCCTACCCGGTAGAATTAGCTTG
Trsp (fwd)	GGCGCTATGCAAATGAAGCTAC
Trsp (rev)	GAGCCGGAGTGAACAAATGAACA
p442_Gpx4 (fwd)	CCGGTCAATCAAGCTTATCGATACCGTCGACGGATCCTTGGATCCA CTAGTAACGGC
p442_Gpx4 (rev)	TACGTAACCGGTCTCGAGACGCGTTCTAGAGAATTCTTCGTCTAGAGC TAGCCTAGGC
pRTS1_Gpx4 (fwd)	CCTCCGCGGCCCGAATTCCTGCAGATTTAAATACTAGTGGATCCCCGCGGTTTCGAAACTA GTAACGGCCGCCAGTG
pRTS1_Gpx4 (rev)	CATGCTGGATCCTCTAGAAGTAGGTCGACAGATCTTCTAGAGCTAGCCTAGGC
KIM-1 (fwd)	TCAGCTCGGGAATGCACAA
KIM-1 (rev)	TGGTTGCCTCCGTGTCTCT
TIMP-2 (fwd)	CAGACGTAGTGATCAGAGCCAAA
TIMP-2 (rev)	ACTCGATGTCTTTGTCAGGTCC
IGFBP7 (fwd)	AAGAGGCGGAAGGTAAAGC
IGFBP7 (rev)	TGGGGTAGGTGATGCCGTT-
18sRNA (fwd)	GCAATTATCCCATGAACG
18sRNA (rev)	AGGGCCTCACTAAACCATCC