

**Table S1.** Primer specifications and how they were utilized in relation to this study.

Primer Name	Primer Sequence	Primer Use
SPL9RNAi_F	CACCCTCTCTTCTGTCAAATCAAACATGGG	SPL9-RNAi construct cloning
SPL9RNAi_R	TTACAGTGACCATTGAGAAGATTCATAGG	SPL9-RNAi construct cloning
nptII-F	GAGGCTATTCGGCTATGACTG	Forward primer for <i>SPL9</i> -RNAi transgene confirmation
nptII-R	ATCGGGAGCGGCGATACCGTA	Reverse primer for <i>SPL9</i> -RNAi transgene confirmation
LA-MsSPL9-Fq1	AGATACAGCTCTTGCTACTG	Forward primer of <i>MsSPL9</i> for qPCR
LA-MsSPL9-Rq1	GTTGAGAATGTTGAACTGAC	Reverse primer of <i>MsSPL9</i> for qPCR
DFR-F	GTTTGTGTCACAGGGGCTTC	Forward primer of <i>MtDFR</i> for qPCR
DFR-R	TCAAGTTTTCTGGGTCGCG	Reverse primer of <i>MtDFR</i> for qPCR
Cat1-F	GAAAAGCTTGCCCAATTTGA	Forward primer of <i>MtCAT1</i> for qPCR
Cat1-R	ATGACGGGTGTCTGAACTCC	Reverse primer of <i>MtCAT1</i> for qPCR
GSH-F	ACGCTTCCCAGCTTTAATGA	Forward primer of <i>MtGSH</i> for qPCR
GSH-R	CCCCAACAAGAAGACCATTG	Reverse primer of <i>MtGSH</i> for qPCR
ms_ADF1qF	TCAAGGCGAAAAGGACACAC	Forward primer of <i>MsADF</i> for qPCR (reference gene)
ms_ADF1qR	AAAACAGCATAGCGGCACTC	Reverse primer of <i>MsADF</i> for qPCR (reference gene)
ms_eIF4AqF	TGCTAAGTTGCCTGAAACCG	Forward primer of <i>MseIF4A</i> for qPCR (reference gene)
ms_eIF4AqR	TGCCCATGTTTTACCTTGC	Reverse primer of <i>MseIF4A</i> for qPCR (reference gene)