

Supplementary Table S1

List of nucleotide sequences for SECIS elements and irrelevant RNAs

SECIS element	Species	Accession number	Encompasses nucleotides
PHGPx	Rat	U37427	655-854
GPx1	Rat	NM030826	675-855
TR1-long	Mouse	AB027565	1659-3210
TR1-short	Mouse	AB027565	1818-2025
SelR	Mouse	AF195142	393-863
SelW	Mouse	BC052719	321-660
SelN	Human	NM020451	2843-3054
SelO	Mouse	AK005048	1998-2360
Dio2	Human	NM013989	6331-6480
GPx2	Mouse	BC039658	698-1008
Dio1	Rat	X57999	1497-1630
Sel15	Rat	BC060547	1019-1217
SelT	Human	NM016275	673-861
SBP2, region 1	Rat	NM024002	2978-3120
SBP2, region 2	Rat	NM024002	2585-2684
VEGFA HSR	Human	NM0010253366	2069-2193

Supplementary Table S2

List of primers used for mutagenesis and qRT-PCR

Target Sequence	Primer Sequence
AAR -> GGG	FWD 5'- GACGGTCTGCCTGGGGACCAGCCCGCTGG -3' REV 5'- CCAGCGGGCTGGTCCCCAGGCAGACCGTC -3'
WT LOOPLESS	FWD 5'- CCCGGCACTCATGACGGTCTGCCAATGAGGCAGTCC CGAGGACCTGGCGTGCATCCCCGC -3' REV 5'- GCGGGGATGCACGCCAGGTCCTCGGGACTGCCTCAT TGGCAGACCGTCATGAGTGCCGGG -3'
PHGPx	FWD 5'- GCTGCGTGGTGAAGCGCTATGGT -3' REV 5'- TTTATTCCCACAAGGCAGCC -3'
GPx1	FWD 5'- CTAAAGCTTCACCACGACCCGGGAC -3' REV 5'- CCAGAATTCCATTACCTCGCACTTC -3'
TR1	FWD 5'- GGATCTTGTGGGTAGGAGG -3' REV 5'- GCTTGAAGGCGAGACTAAAA -3'
Sel15	FWD 5'- CTAGCGGAATTCATGTGCCACATACAATTTTTATAGCC -3' REV 5'- CTAGCGAAGCTTACGAACATTCTTAAATGGAACCTTCTG -3'
GAPDH	FWD 5'- CCCCTGGCCAAGGTCATCCA -3' REV 5'- CGGAAGGCCATGCCAGTGAG -3'
β -ACTIN	FWD 5'- ATGGTGGGTATGGGTCAGAAGG -3' REV 5'- GCTCATTGTAGAAAGTGTGGTGCC -3'