

**Table S1.** Sequences of the primers.

<b>Primers and products</b>	<b>Sequences of paired primers</b>
Homo sapiens $\beta$ -actin Product length: 179bp	F: ATCGTGCGTGACATTAAGGAGAAG R: AGGAAGGAAGGCTGGAAGAGTG
Homo sapiens ASNS Product length: 154bp	F: GGAAGACAGCCCCGATTACT R: AGCACGAACTGTTGTAATGTCA
Homo sapiens ATF4 Product length: 85bp	F: CCCTTCACCTTCTTACAACCTC R: TGCCCAGCTCTAAACTAAAGGA
ASNS promoter (homo sapiens)	F: ATGTGGACAGCTTGACGGGC R: TCCTCGCAGGCATGATGAAA

F, forward; R, reverse.

**Table SII.** Sequences of the siRNA-ASNS and siRNA-NC.

<b>Name</b>	<b>Start site</b>	<b>Forward (5'-3')</b>	<b>Reverse (5'-3')</b>
siRNA-ASNS (homo)	828	GGAGGAAUUGAGCAAACA ATT	UUGUUUGCUCAAUCCUC CTT
	1,080	CCAAAUGGCAAAGUUGCA UTT	AUGCAACUUUGCCAUUUG GTT
	1,667	GGAGGAGAGUGAGAGGCU UTT	AAGCCUCUCACUCUCCUCC TT
NC		UUCUCCGAACGUGUCACGU TT	ACGUGACACGUUCGGAAA TT

The start site is the start site of the siRNA-targeted sequence within ASNS mRNA. si, small interfering; ASNS, asparagine synthetase; NC, negative control.

**Table SIII.** Sequences of the siRNA-ATF4 and siRNA-NC.

<b>Name</b>	<b>Start site</b>	<b>Forward (5'-3')</b>	<b>Reverse (5'-3')</b>
siRNA-ATF4 (homo)	1,315	CUCCCAGAAAGUUUAACAA TT	UUGUAAAACUUCUGGGA GTT
	1,478	CUGCUUACGUUGCCAUGA UTT	AUCAUGGCAACGUAAGCA GTT
	1,709	GUGAGAAACYGGAUAAGA ATT	UUCUUAUCCAGUUUCUCA CTT
NC		UUCUCCGAACGUGUCACGU TT	ACGUGACACGUUCGGAAA TT

The start site is the start site of the siRNA-targeted sequence within ATF4 mRNA. si, small interfering; ATF4, activating transcription factor 4; NC, negative control.