

Table SI. Primers used for reverse transcription-quantitative PCR detection.

Gene	Accession no.	Species	Primer sequence, 5'→3'	Product length, bp
<i>Alas1</i>	NM_001291835.1	Mouse	F: TCGCCGATGCCCATTCCTTATC R: GGCCCCAACTTCCATCATCTT	109
<i>Sirt3</i>	NM_001127351.1	Mouse	F: CTACATGCACGGTCTGTGCGAA R: GCCAAAGCGAAGTCAGCCATA	175
<i>Tfam</i>	NM_009360.4	Mouse	F: CAAAGGATGATTCGGCTCAGG R: TCGACGGATGAGATCACTTCG	182
<i>Tfb2m</i>	NM_001331054.2	Mouse	F: TATAGAGCCGTTGCCTGATTCT R: GCCGCTTTCTTACATGCTATGTG	99
<i>Ssbp1</i>	NM_001286663.1	Mouse	F: CAACAAATGAGATGTGGCGATCA R: ACGAGCTTCTTACCAGCTATGA	238
<i>Cyts</i>	NM_007808.5	Mouse	F: CCAAATCTCCACGGTCTGTTC R: ATCAGGGTATCCTCTCCCCAG	107
<i>Polrmt</i>	NM_001407792.1	Mouse	F: GAACACCCACGAACTCAGAGG R: AGACGCAGCACTCAAAGAAAG	171
<i>Polg2</i>	NM_001360095.1	Mouse	F: CGGGAGCTGTTTCGTCAAAG R: CAGGTAGGACACACCCATCT	186
<i>Actb</i>	NM_007393.5	Mouse	F: GGCTGTATTCCCCTCCATCG R: CCAGTTGGTAACAATGCCATGT	154
<i>SLC7A11</i>	NM_014331.4	Human	F: CCTCTGCCAGCTGTTATTGTT R: CCTGGCAAACCTGAGGAAAT	96
<i>GPX4</i>	NM_001039847.3	Human	F: GAGGCAAGACCGAAGTAAACTAC R: CCGAACTGGTTACACGGGAA	100
<i>ME1</i>	NM_002395.6	Human	F: AGTTTGGTGTTCGGAAGCC R: TACAGCCAAGGTCTCCCAAG	154
<i>ACTB</i>	NM_001101.5	Human	F: CCAGCCTTCCTTCTTGGGTA R: CAATGCCTGGGTACATGGTG	143
<i>Slc7a11</i>	NM_011990.2	Mouse	F: TGGCGGTGACCTTCTCTGA R: ACAAAGATCGGGACTGCTAATGA	61
<i>Gpx4</i>	NM_001037741.4	Mouse	F: GCCTGGATAAGTACAGGGGTT R: CATGCAGATCGACTAGCTGAG	99
<i>Me1</i>	NM_001198933.1	Mouse	F: ACAAAGGGCACATTGCTTCAG R: CCCATCCCATACAGCCAAGG	118

Alas1, aminolevulinic acid synthase 1; *Sirt3*: sirtuin 3; *Tfam*: transcription factor A, mitochondrial; *Tfb2m*: transcription factor B2, mitochondrial; *Ssbp1*, single-stranded DNA binding protein 1; *Cyts*, cytochrome c, somatic; *Polrmt*, RNA polymerase mitochondrial; *Polg2*, DNA polymerase γ 2, accessory subunit; *Actb*, β -actin; *SLC7A11*, solute carrier family 7 member 11; *GPX4*, glutathione peroxidase 4; *ME 1*, malic enzyme 1; F, forward; R, reverse.

Table SII. Primers for mtDNA copy number detection.

Gene	Species	Forward sequence, 5' →3'	Reverse sequence, 5'→3'
β-globin	Mouse	CACCTGGGCAAGGATTCACC	AGATGCTCTCTTGGGAACAATTAAC
mt-ND2	Mouse	AATCCTATCACCCCTTGCCATCAT	CTGTTGCTTGTGTGACGAAGT
HunuclS	Human	ACACAACCTGTGTTCACTAGC	CCAACCTCATCCACGTTCA
HumitS	Human	TTCAGACCGGAGTAATCCAG	AGTAGAACAGCGATGGTGAG

mt-ND2, mitochondrially encoded NADH dehydrogenase 2; HunuclS, Human nuclear sequence primer set; HumitS, Human mitochondrial sequence.