

Table S2. Primer sequences for real-time quantitative PCR.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<u>Reference genes</u>		
<i>Tubab1b</i>	AGCGCAGCATCCAGTTTGT	CTGTGGTGTTGCTCAGCATAGA
<i>Rpl13a</i>	GCGGATGAACACCAACCCGT	CAGCCTGGCCTCTTTTGGTCT
<i>Ppia</i>	TCCATGGCAAATGCTGGACCAA	CCTGGACCCAAAACGCTCCA
<u>Antioxidants</u>		
<i>Cat</i>	GAATGGCTATGGCTCACACA	CAAGTTTTTGATGCCCTGGT
<i>Sod1</i>	CGAGCATGGGTTCCATGTC	CTGGACCGCCATGTTTCTTAG
<i>Sod2</i>	ATTAACGCGCAGATCATGCA	CCTCGGTGACGTTTCAATTGT
<u>Mitophagy</u>		
<i>Pink1</i>	CCAAACACCTTGGCCTTCTA	CTTAAGATGGCTTCGCTGGA
<i>Bnip3</i>	CAGAGCGGCGAGGAGAACCTGCAG	GCTGCTCCCATTTCCATTGCTGAAG
<i>Bnip3l</i>	AGGCTAACCTGCAGCACAGT	CACTGCCGATGAAACTGCTA
<u>Mitochondrial biogenesis</u>		
<i>Ppargc1a</i>	GGGACATGTGCAGCCAAGACT	GATCTGGGCAAAGAGGCTGGT
<i>Ppargc1b</i>	AGCGCTTCGAGGTGTTTGGT	TTCTCAGGGTAGCGCCGTTC
<i>Tfam</i>	AATTGCAGCCATGTGGAGGGAG	GCCGGGCTTCCTTCTCTAAGC
<u>Mitochondrial fusion</u>		
<i>Mfn1</i>	CGGAGGCATATGAAAGTGGC	CCATCAGTTCCCTCCACACT
<i>Mfn2</i>	TTGACTCCAGCCATGTCCAT	GGTGACGATGGAGTTGCATC
<i>Opa1</i>	CAGCTGGCAGAAGATCTCAAG	CATGAGCAGGATTTTGACACC
<u>Mitochondrial fission</u>		
<i>Drp1</i>	TGGAGATGGTGGTCAGGAAC	TTTCGTGCAACTGGAAGTGG
<i>Fis1</i>	ATGGATGCCCAGAGATGAAG	ACGATGCCTCTACGGATGTC
<u>Oxidative phosphorylation</u>		
<i>Ndufb3</i>	GAAGAAGCTTGCTGCACGAGG	ACGCAGCAAACCCCCATTTG
<i>Sdhb</i>	GAACGGAGACAAGTACCTGGGG	GATGGTGTGGCAGCGGTAGA
<i>Cyc1</i>	ATGTTGCCACCTTCCTTCGCT	AGGACTGACCACTTATGCCGC
<i>Cox4i1</i>	CTGAAGGAGAAGGAGAAGG	CAGTGAAGCCGATGAAGA

Table S3. Immunoprecipitation buffer composition

Component	Concentration
Tris	50 mM
NaCl	150 mM
Glycerol	10% (w/v)
NP-40	0.05% (w/v)
Ethylenediaminetetraacetic acid (EDTA)	1 mM
cOmplete protease inhibitor cocktail*	1x
PhosSTOP phosphatase inhibitor*	1x
pH	7.4

*Roche, Basel, Switzerland

Table S4. Laemmli buffer (4x)

Component	Concentration
Tris	0.25 M
Sodium dodecyl sulfate (SDS)	8% (w/v)
Glycerol	40% (w/v)
Dithiothreitol (DTT)	0.4 M
Bromophenol Blue	0.02% (w/v)
pH	6.8

Table S5. Western blot primary antibodies

Antigen	Dilution	Supplier
BNIP3	1:1000	Cell Signaling Technology
BNIP3L	1:1000	Cell Signaling Technology
SOD2	1:1000	Santa Cruz Biotechnology
OXPHOS I-V	1:1000	Abcam

Table S6. Western blot secondary antibodies

Primary antibody	Secondary antibody	Dilution	Supplier
BNIP3	Anti-rabbit	1:10,000	Vector Laboratories
BNIP3L	Anti-rabbit	1:10,000	Vector Laboratories
SOD2	Anti-mouse	1:10,000	Vector Laboratories
OXPHOS I-V	Anti-mouse	1:10,000	Vector Laboratories