

Table S1. Primer design for the PCR assays.

Gene	Accession Number	Sequence 5' to 3'
<i>BAG3</i>	NM_0010111936	<i>F:</i> ACCGGTTCACCTGCCCATC <i>R:</i> GTTTTCGGGTGTTGGGTGACAG
<i>BNIP3</i>	NM_053420	<i>F:</i> GGACGAAGCAGCTCCAAGAG <i>R:</i> CACCAAAGCTGTGGGTGTCT
<i>BNIP3L</i>	NM_080888	<i>F:</i> CAGCATGAGTCGGGACAGAG <i>R:</i> CCTGCTGGTGTGCATCTCA
<i>DYNC1H1</i>	NM_019226	<i>F:</i> TCAGCAAATTTGGGCAGATG <i>R:</i> GTGTCAACGGAGTGCTGCTC
<i>FUNDC1</i>	NM_001025027	<i>F:</i> GGCTGGTGTGCAGGATTTTT <i>R:</i> CCACTGTGACTGGCAACCTG
<i>DYSF</i>	NM_001107869	<i>F:</i> ACCAGACTCGGCTACCTGGA <i>R:</i> CGGGCATTCAATATCGTCCT
<i>HSPB8</i>	NM_053612	<i>F:</i> CAGCTTCCTGCAGAAGTGGA <i>R:</i> GGGTGAGTAAGGAGGGACCTG
<i>KIF5B</i>	NM_057202	<i>F:</i> CCACCAGAAGAAACGAGCAG <i>R:</i> CCCTCCGGTTGCTTTACATC
<i>LAMP2</i>	NM_017068	<i>F:</i> GCCTTTATGCAGAATGGGAGA <i>R:</i> TGTACCTTGTGAGGCACTGT
<i>MIRO1</i>	NM_001107026	<i>F:</i> ACAAATGAAAGCGGCTGGAT <i>R:</i> GCCCAGATACTCCAGACAACG
<i>NRF1</i>	NM_001100708	<i>F:</i> GGGGCAACAGTAGCCACATT <i>R:</i> CACCTCTCCATCAGCCACAG
<i>TFAM</i>	NM_031326	<i>F:</i> AATGTGGGGCGTGCTAAGAA <i>R:</i> GCTGACAGGCGAGGGTATG
<i>TRAK1</i>	NM_001134565	<i>F:</i> AACCTGCGGAACAAGACGAT <i>R:</i> CGCATGGTTCCCTCAATTTC
<i>YAP1</i>	NM_001034002	<i>F:</i> CATGCTCTCCCAACTGAACG <i>R:</i> TCCCATCCATCAGGAAGAGG
<i>18S</i>	NM_003278	<i>F:</i> AATCAGTTATGGTTCCTTTGTCTG <i>R:</i> GGTCTAGAATTACCACAGTTATCCAA

F forward, *R* reverse; BAG3, Bcl2-associated athanogene 3; BNIP3, BCL2-interacting protein 3; BNIP3L, BCL2-interacting protein 3-like; DYSF, DYNC1H1, Cytoplasmic dynein 1 heavy chain 1; Dysferlin; FUNDC1, FUN14 domain-containing protein 1; HSPB8, heat shock protein family B (small) member 8; KIF5B, Kinesin-1 heavy chain; LAMP2, lysosomal-associated membrane protein 2; MIRO1, Mitochondrial Rho GTPase 1; NRF1, Nuclear respiratory factor 1; TFAM, Mitochondrial transcription factor A; TRAK1, Trafficking kinesin-binding protein 1; YAP1, yes-associated protein 1.

Table S2. Primary antibodies used for Western blots.

Antibody	Dilutions	Source
Goat anti-PGC1A	1:500	Abnova, #PAB7302
Rabbit anti-MFN2	1:2000	Abcam, #Ab124773
Mouse anti-OPA1	1:1000	BD Biosciences, #612606
Rabbit anti-FIS1	1:1000	Abcam, #Ab71498
Mouse anti-PARKIN	1:10000	Sigma-Aldrich, #P6248
Anti-SQSTM1	1:5000	Interchim, #8878-M01
Rabbit anti-LC3	1:1000	Sigma-Aldrich, #L7543
Rabbit Anti-UBE2L3	1:1000	Sigma-Aldrich, #SAB2501081

PGC1A, Peroxisome proliferator-activated receptor gamma coactivator 1-alpha; MFN2, mitofusin 2; OPA1, mitochondrial Dynamin Like GTPase; FIS1, mitochondrial fission 1 protein; PARKIN, E3

ubiquitin-protein ligase; SQSTM1, ubiquitin-binding protein p62; LC3, Microtubule-associated proteins 1A/1B light chain 3B; UBE2L3, ubiquitin-conjugating enzyme E3 L3.