

Supplementary Table 1. Primer and antibodies list.

Primers	Sequence
Abca1	5'-AAAACCGCAGACATCCTTCAG-3' and 5'-CATACCGAAACTCGTTCACCC-3'
Atg4b	5-CATGAATTTCTGGGGCACTT-3' and 5'-AGCCTTGGGATTCTCTCCAT-3'
Atg5	5'-AAAGATGTGCTTCGAGATGTGT-3' and 5'-CACTTTGTCAGTTACCAACGTCA-3'
Atg12	5'-TGGCCTCGGAACAGTTGTTTA-3' and 5'-GGGCAAAGGACTGATTCACAT-3'
Atg16l1	5'-CAGAGCAGCTACTAAGCGACT-3' and 5'-AAAAGGGGAGATTCGGACAGA-3'
Ctsb	5'-TTGCGTTCGGTGAGGACATAG-3' and 5'-GCAGGAGCCCTGGTCTCTA-3'
Gapdh	5'-TGTGAGGGAGATGCTCAGTG-3' and 5'-TGTTCTACCCCAATGTGT-3'
Foxo3	5'-GGGGAACCTGTCCTATGCC-3' and 5'-TCATTCTGAACGCGCATGAAG-3'
Lamp1	5'-CCCCACTGTATCCAAGTACAATG-3 and 5'-TGTTGTCCTTTTTTCAGGTAGGTG-3'
Lipa	5'-TGTTTCGTTTTCCACCATTGGGA-3' and 5'-CGCATGATTATCTCGGTCACA-3'
Prkaa1	5'-GTCAAAGCCGACCCAATGATA-3' and 5'-CGTACACGCAAATAATAGGGGTT-3'
Srebfb2	5'-GCAGCAACGGG-3' and 5'-CCCCATGACTA-3'
Tcfef1	5'-GCAGCCACCTGAACGTGTA-3' and 5'-TGTTAGCTCTCGCTTCTGAGT-3'
Uvrag	5'-ACATCGCTGCTCGGAACATT-3' and 5'-CTCCACGTCGGATTCAAGGAA-3'
Antibodies	Information (WB=western blot, IF=immunofluorescence, IP=immunoprecipitation)
Anti-LC3	MBL international, PD014 (1:1000 dilution for WB)
Anti-LC3	MBL international, PM036 (1:100 dilution for IF)
Anti-Atg5	Novus Biologicals, NB110-53818 (1:500 dilution for WB)
Anti-Atg12	Cell Signaling Technology, Cat#4180 (1:1000 dilution for WB)
Anti-Ago2	Cell Signaling, Argonaute 2 (C34C46) Rabbit mAb (1:50 dilution for IP)
Anti-AMPK	Cell Signaling, Anti-AMPK α , Cat#2603 (1:1000 dilution for WB)
Anti-p-AMPK	Cell Signaling, Anti-phospho-AMP α (Thr172), Cat#2535 (1:1000 dilution for WB)
Anti-TFEB	Novus Biologicals, NBP1-67872 (1:500 for WB and
Anti-FoxO3a	Cell Signaling, Cat#2497 (1:1000 for WB and 1:200 for IF)
Anti-Lamp1	Cell Signaling, Cat# 3243 (1:1000 dilution for WB)
Anti-p62	Abnova, Anti-SQSTM1 (p62), Cat#H00008878-M01 (1:100 dilution for IF)
Anti-Tubulin	Sigma-Aldrich, Cat#T6074 (1:1000 dilution for WB)
Anti-HSP90	Fisher Scientific, Cat#BDB610419 (1:100 dilution for WB)