

Supplemental Table S1. Summary of the sequences of qPCR oligos used in the current study.

Gene name	Primer sequences		Function
	Forward	Reverse	
Target protein			
LAMP2	GGGTTTCAGCCTTTCAATGTGAC	GCACAGCATGTCCTGGCT	lysosomal associated membrane protein 2
Calcium handling			
ATP2A2	ATGGGGCTCCAACGAGTTAC	ACACCCACAATTGCATTGGC	SERCA sarco/endoplasmic reticulum Ca2+-ATPase
CASQ2	AGGAACACCAAAGACCCACTC	GATGCTCAGATCGGGGTTGT	calsequestrin2
RYR2	CGTGTGGGTCGGAGACATTA	AGAGATTGACAGCCCGATGC	ryanodine receptor 2
PLN	CCAGTCAAACACCCGTAAGACT	GAGCGAGTGAGGTATTGGACT	phospholamban
CACNA1C	AGATGACTGCTTATGGGGCTT	CACTGAACCACATGCTTTAGCC	calcium voltage-gated channel subunit alpha 1 C
SCN5A	CAGCAGTGGAAAGCGGAAC	AGTCCTCTGGGTCCTTGACA	sodium voltage-gated channel alpha subunit 5
Sarcomere			
MYH6	TGGACAAGCTGCAACTGAAGG	AGTGTCACTCCTCATCGTGCAT	myosin heavy chain 6
MYH7	GCTCTGTGTCTTTCCCTGCT	TGAGGTCAAAGGCCTGGTC	myosin heavy chain 7
TNNI1	CTCCCGCAAACCTTGCTGA	GGTGTGTGGAGGCATTTGG	troponin I1
TNNI3	CAAAGCAAGAGCTGGAGCGA	TCAGATCTGCAATCTCCGTGA	troponin I3
MYBPC3	CATGAGGCGCGATGAGAAGA	ATGTACTTGCTGCCGCTCAT	myosin binding protein 3C
ACTC1	GCCGACGAACCCCT	CGTAGGAGTCCTTCTGACCC	actin alpha cardiac muscle 1
Autophagy and protein homeostasis			
BAG3	CCCCGTTCAGGTCATCTGTC	TTTCTCGATGGGTCATGGGC	BAG cochaperone 3
HSPA8	TATTGGAGCCAGGCCTACAC	TCTCGACTTTTCCGTGCTGG	heat shock protein (Hsp70) family A member 8
HSPB8	CAGCAAGAAGGTGGCATTGTT	GGGGAAGCTCGTTGTTGAAA	heat shock protein family B (small) member 8
HSP90B1	TCTAGGACGGGGAACGACAA	TGGGCTCCTCAACAGTTTCAG	heat shock protein 90 beta family member 1
Metabolism			
GAPDH	GGAGCGAGATCCCTCCAAAAT	GGCTGTTGTCATACTTCTCATGG	glyceraldehyde-3-phosphate dehydrogenase
PPARGC1A	CAAGCAAAGGGAGAGGCAGA	TTCGTTTGACCTGCGCAAAG	PPARG coactivator 1 alpha
COX8A	TGTGGTGTACTCCGTGCCAT	GGTCACGAAGCAGGAGGTAA	cytochrome c oxidase subunit 6A1
COX6A1	CATCTCCGCATCAGGACCAA	ATGTGCAGAGTAACGGTCCA	cytochrome c oxidase subunit 8A
Stress marker			
NPPA	TGATCGATCTGCCCTCCTAA	TCCTCCCTGGCTGTTATCTTC	natriuretic peptide A
Housekeeping gene			
18S rRNA	CTCAACACGGGAAACCTCAC	CGCTCCACCAACTAAGAACG	18s ribosomal RNA