

TABLE S1 - Quantitative real-time PCR primers and conditions.

Protein ^a	Genes	Sequence NCBI	Probe Taqman	Forward primer (5' → 3')	Reverse primer (3' → 5')	bp	T ^o
HK GENES							
β-actin	<i>Actb</i>	NM_007393.3	NA	CAACATCCCCAAAGTTCTAC	TGAGGGACTTCCTGTAACCACT	135	57.7
cyclophilin A	<i>Ppia</i>	NC_000077.5	NA	AGCATGTGGTCTTTGGGAAGGTG	CTTCTTGCTGGTCTTGCCATTCC	92	57.7
GAPDH	<i>Gapdh</i>	NM_008084.2	NA	TGTGTCCGTCGTGGATCTGA	TTGCTGTTGAAGTCGAGGAG	150	55.3
HGPT	<i>Hprt</i>	NM_013556.2	Mm_0044698_m1 ^b	Unknown	Unknown	65	NA
SPECIFIC GENES							
Murf-1 E3 ligase	<i>Trim63</i>	NM_001039048.2	NA	ACCTGCTGGTGGAAAACATC	CTTCGTGTTCTTGACATC	96	55
Atrogin-1 E3 ligase	<i>Fbxo32</i>	NM_026346.2	NA	GCAAACTGCCACATTCTCTC	CTTGAGGGGAAAGTGAGACG	93	55
LC3β	<i>Map1lc3b</i>	NM_026160.4	NA	CACTGCTCTGCTTGTGTAGGTTG	TCGTTGTGCCTTTATTAGTGATC	171	57.7
Cathepsin L	<i>Ctsl</i>	NM_001912	NA	GTGGACTGTTCTCACGTCCAAG	TCCGTCCTTCGCTTCATAGG	128	57.7
PGC1-α	<i>Ppargc1a</i>	NM_013261.3	NA	GGAATGCACCGTAAATCTGC	TTCTCAAGAGCAGCGAAAGC	88	55
Osgin 2	<i>Osgin2</i>	NM_145950.3	NA	CCTTACTGCTCGAGATGGTCCAA	AAACGTCAGGGACTACACGCATAAC	122	47.5
Stress-associated ER protein	<i>Serp1</i>	NM_030685.3	NA	TGCCTTGTGAAACATGTGGA	GACCTAGAACCCTAAGGGCATTTC	124	39.5
HERP	<i>Herpud1</i>	NM_022331.1	NA	TCAAGTGATGGTTTACGGCAAAGA	CACCATACGTTGTGTAGCCAGAG	140	54.3
PERK	<i>Eif2ak3</i>	NM_010121.2	NA	TATGCTACGCACACGGGACAA	ACTCGTTCATCTGGGTGCTG	152	46.7
Bip (GRP78)	<i>Hspa5</i>	NM_022310.2	NA	CTCCACGGCTTCCGATAATCA	TCCAGTCAGATCAAATGTACCCAGA	106	44.3
HSP72	<i>Hspa1a</i>	NM_010479.2	NA	CAAGAACGCGCTCGAATCCTA	TCCTGGCACTTGTCAGCAC	114	57
HSP25	<i>Hspb1</i>	NM_013560.2	NA	TCCCTGGACGTCACCACTTC	AGAGATGTAGCCATGTTCTGCTCTG	114	56.1
Pax-7	<i>Pax7</i>	NM_011039.2	NA	ACTTCAAGCAGGTGACATCCACA	ACCTCACGGGCAGATCATT	93	54.8
NF-κB	<i>Nfkb1</i>	NM_008689.2	NA	TGCATATAGCGGCCGGAAG	CCCAAGAGTCGTCCAGGTCATAG	114	57.9
Interleukin 6	<i>IL6</i>	NM_031168.1	NA	CCACTTCACAAGTCGGAGGCTTA	GCAAGTGATCATCGTTGTTTCATAC	112	42
Chloride channel 1	<i>Clcn1</i>	NM_013491.2	ATTGGCTGAGACACTTGT	TCATGCTCGGTGTCCGAAA	CAGGCGGTGCTTAGCAAGA	192	NA
Sodium channel type IV	<i>Scn4a</i>	NM_133199.2	Mm_01258366_m1 ^b	Unknown	Unknown	88	NA
Sodium channel type V	<i>Scn5a</i>	NM_021544.3	Mm_01342505_m1 ^b	Unknown	Unknown	85	NA
Sodium channel type I β	<i>Scn1b</i>	NM_011322.2	Mm_00441210_m1 ^b	Unknown	Unknown	86	NA
Ca ²⁺ -activated K ⁺ channel (BK)	<i>Kcnma1</i>	NM_010610	CAGAGTCCTGGTTGTGTTA	GATATCCGCCCAGACACTGACT	AGTATATTACGAGGGCACCAATGC		NA
ATP-sensitive K ⁺ channel, Kir6.2	<i>Kcnj11</i>	NM_010602.2	CTGGCTCCTAGTGACCTG	CTCATCATCTACCACGTCATCGA	GTTTCTACCACGCTTCCAAGA	116	NA
ATP-sensitive K ⁺ channel SUR2A	<i>Abcc9</i>	NM_021041.2	CATAGCTCATCGGGTTC	CGGATCGCACGGTCGTA	TAACCAGGTCTGCAGTCAGAATG		NA
ATP-sensitive K ⁺ channel, SUR1	<i>Abcc8</i>	NM_011510.3	Mm_01701349_m1 ^b	Unknown	Unknown	82	NA
PK C, α	<i>Prkca</i>	NM_011101.3	Mm_00440858_m1 ^b	Unknown	Unknown	75	NA
PKC, δ	<i>Prkcd</i>	NM_011101.3	Mm_00440891_m1 ^b	Unknown	Unknown	58	NA
PK C, θ	<i>Prkcg</i>	NM_008859.2	Mm_00435796_m1 ^b	Unknown	Unknown	106	NA
PK C, ε	<i>Prkce</i>	NM_011104.3	Mm_00440894_m1 ^b	Unknown	Unknown	64	NA
IGF-1 class 1	<i>Igf1</i>	NM_001111275.1	Mm_01233960_m1 ^b	Unknown	Unknown	84	NA
IGF-1 class 1	<i>Igf1</i>	NM_010512.4	Mm_01233960_m1 ^b	Unknown	Unknown	84	NA
IGF-1 Ea	<i>Igf1</i>	NM_001111275.1	Mm_00710307_m1 ^b	Unknown	Unknown	68	NA
IGF-1 Ea	<i>Igf1</i>	NM_001111276.1	Mm_00710307_m1 ^b	Unknown	Unknown	68	NA

^a, see text for full names; ^b, reference number from Applied Biosystems; NA, not applicable