

Supplementary Information

Table S1. Gene primers sequences for real-time PCR (5' to 3').

Gene	Forward Primer	Reverse Primer	UniSTS#
GLUT4	GACATTTGGCGGAGCCTAAC	TAAGTCCAGCAGGGTGACACAG	239613
AMPK α 2	GAGAGAGGACTCGGCATCAATAA	AAGGAAACAGGCAGATACCAACA	231697
PDK4	CCAGCACATCCTCATATTTCAGTG	GAGCTTTAATTCTGGCGACGTTA	231631
CPT-1 β	ATCTCGGTTCCAGTTCTACTTCC	ACGACAGTCTCACTTAGAGGCAC	261874
PGC-1 α	TGCAGGCCTAACTCCTCCAC	AATAGGCCATCCATGGCTAGTCC	479198
ERR α	AGTACAGCTGTCCGGCCTCCAAC	GGCATGGCATAACAGCTTCTCAGG	277893
NRF-1	TGAGGGCATTGGATTTGGATTA	GGGAGAGGCAAGAGAATCACTC	218742
NRF-2 α	AGCGCATCTCGTTGAAGAAG	CCGAAATGTTGAGTGTGGTG	259081
Mfn1	GCTGCATACAGACAGACAGCCT	GGTAATGACCTGTCTCAGGGCT	218000
Mfn2	CACTACCACATCGGACACCCTA	GAAGTTGTGTCTTGCAATTTGGC	211475
OPA1	TGGCCCATTCATAGAGACAG	CCTTTATGACTGGCGGAGAA	226398
Drp1	GAAGTGGTGCAGTGGAATGAC	GTTTCTATTGGGAACCACTGCC	214962
hFis1	AAATGATGCTACGCAGGCTT	CCTGGACCATGACCAAGTTT	232123
ATPase6	CAAACAAATAATGCTAATCCACACACC	GCTGTAAGCCGGACTGCTAATG	
β -actin	CCTCTATGCCAACACAGTGC	GTACTCCTGCTTGCTGATCC	

GLUT4, glucose transporter 4; AMPK α 2, AMP-activated protein kinase subunit α 2; PDK4, pyruvate dehydrogenase kinase 4; CPT-1 β , carnitine palmitoyltransferase 1(muscle); PGC-1 α , proliferator-activated receptor- γ coactivator-1 α ; ERR α , estrogen-related receptor α ; NRF-1, nuclear respiratory factor-1; NRF-2 α , nuclear respiratory factor-2 α ; Mfn1 and Mfn2, mitofusin 1 and 2; OPA1, optic atrophy 1; Drp1, dynamin-related protein 1; hFis1, mitochondrial fission protein. ATPase6, mitochondrial adenosine triphosphatase 6.

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