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2 **Title:** Early Potential Effects of Resveratrol Supplementation on Skeletal Muscle
3 **Adaptation Involved in Exercise-induced Weight Loss in Obese Mice**

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14 **Running Title:** Muscle Adaptation in Weight Loss of Obese Mice

15 **Keywords:** weight loss; glucose and lipids homeostasis; skeletal muscle adaptation; endurance
16 exercise; resveratrol.

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1 **Supplemental Material**

2 Table S1. Primers used for quantitative RT-PCR analysis.

Gene name	Forward (5'→3')	Reverse (5'→3')
<i>ND1</i>	CCTATCACCCCTTGCCATCAT	GAGGCTGTTGCTTGTGTGAC
<i>Pecam1</i>	ATGGAAAGCCTGCCATCATG	TCCTTGTTGTTTCAGCATCAC
<i>PGC-1α</i>	ATGGAGTGACATAGAGTGTGCT	CCACTTCAATCCACCCAGAAAG
<i>NRF1</i>	TATGGCGGAAGTAATGAAAGACG	CAACGTAAGCTCTGCCTTGTT
<i>ERRα</i>	GGGGAGCATCGAGTACAGC	AGACGCACACCCTCCTTGA
<i>Tfam</i>	ATTCCGAAGTGTTTTTCCAGCA	TCTGAAAGTTTTGCATCTGGGT
<i>Drp1</i>	TTACGGTTCCCTAAACTTCACG	GTCACGGGCAACCTTTTACGA
<i>Fis1</i>	TGTCCAAGAGCACGCAATTTG	CTCGCACATACTTTAGAGCC
<i>Mfn1</i>	ATGGCAGAAACGGTATCTCCA	CTCGGATGCTATTCGATCAAGTT
<i>Mfn2</i>	CTGGGGACCGGATCTTCTTC	CTGCCTCTCGAAATTCTGAAACT
<i>OPA1</i>	CGACTTTGCCGAGGATAGCTT	CGTTGTGAACACACTGCTCTTG
<i>I(Myh7)</i>	CCTGCGGAAGTCTGAGAAGG	CTCGGGACACGATCTTGGC
<i>IIA(Myh2)</i>	ACTTTGGCACTACGGGGAAAC	CAGCAGCATTTCGATCAGCTC
<i>IIX(Myh1)</i>	GCGAATCGAGGCTCAGAACAA	GTAGTTCCGCCTTCGGTCTTG
<i>IIB(Myh4)</i>	CTTTGCTTACGTCAGTCAAGGT	AGCGCCTGTGAGCTTGTAAG
<i>B-actin</i>	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT

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