

Supporting Information for

3 The analysis of antioxidant expression during muscle atrophy induced by hind-limb suspension in mice

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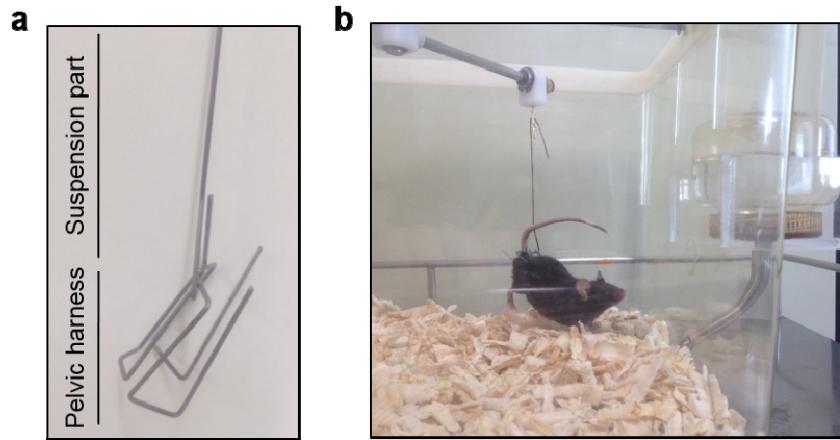
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15 T. N. Nuoc and S. Kim contributed equally to this study.

16 **Authors' Contributions** S. Kim and T. H. Lee conceived the study and designed the experiments. T. N. Nuoc, S.
17 Kim and J. S. Lee performed the experiments. T. N. Nuoc, S. Kim, S. H. Ahn, and B. J. Park analyzed the data, and
18 T. N. Nuoc, S. Kim, and T. H. Lee wrote the manuscript.

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21 **Supplementary Fig. 1** Pelvic-HLS system in mouse. **a** HLS system was made of 2 separate thick insulated metal
22 parts (suspension part and pelvic harness part). **b** Mice was fitted into pelvic harness part and then unloaded.

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24 **Supplementary Table 1.** Gene list and primer sequences for real-time PCR

Gene name	Direction	Sequence (from 5' to 3')
GPX1	F	GGCCCCGACGGTGTTC
	R	CAGCAGGGTTCTATGTCAGGTT
GPX2	F	GCTGCCCTACCCTTATGATGAC
	R	CAAAGTTCCAGGACACGTCTGA
GPX3	F	CCAGCCTCCTCTTCCTCCT
	R	CCATCGCGCTCACAGTTG
GPX4	F	CGATATGCTGAGTGTGGTTACG
	R	CGGCTGCAAACCTTGATT
GPX5	F	CCATCTTCTCAGCACACTCTCA
	R	TACAGCTTCCCAGACACAAATCTACT
GPX6	F	AACCAAACCAGTACCCAGTAAGAAA
	R	ACATGCATTAGTAGGGACACAGGAA
Prdx1	F	GAAACTCTGTACTCTACTCGTGCTTAAA
	R	CTATCCATCCCCAGCCCTGTA
Prdx2	F	CAATGTGGATGACAGCAAGGA
	R	TTCAGGCTCACCGATGTTACC
Prdx3	F	TGCTGTTGTCATGGAGAGTTCA
	R	CAAAGGGTAGAAGAAAAGCACCAA
Prdx4	F	TTGGTTCAAGCCTCCAGTACA
	R	ATTATTGTTCACTACCAGGTTCCA
Prdx5	F	TTATTGGATGATTCTTGGTGTCTCT
	R	CCTTCACTATGCCGTTGTCTATCAC
Prdx6	F	CCTGATCAGAAAACCGTTGTCA
	R	AGGAAGCATGCCTGTGCAAT
SOD1	F	TTTTTTGCGCGGTCTTT
	R	GACCAGAGAGAGCAAGACGAGAA
SOD2	F	CCACACATTAACGCGCAGAT
	R	TCGGTGGCGTTGAGATTGT
SOD3	F	CCTTAGAGAGAGTATTGGAACCTTTA
	R	AAGCTGCAAAGTCTAAAAAGTACA
Catalase	F	GAACGGAGGAGGAGAGGAAACG
	R	TTGACCGCTTCTTCTGAATGA
NDUFS3	F	GCTGGAGACAAGAACGCTGAA
	R	AGACAACCTTAGGTGAGGCCTTT
NDUFS4	F	GGAGATTGTATTCCTCGGTGTT
	R	CTGAGCCTTATTTGGGAGCAT

Gene name	Direction	Sequence (from 5' to 3')
NDUFS5	F	GGGACCCGGCGAAA
	R	CATTCGCCTCATCGTTTGTAC
NDUFV1	F	GCTATCCGAGAGGCCTATGAAG
	R	CCACGCACCACAAACACATC
NDUFV2	F	TTTGCTTATTCCCACCTGTACATC
	R	AGATAGTGGTCCTGTTGTTGACATA
NOX1	F	TTTGACAGAGCCACTGACATCCT
	R	GAAAACTCATTGTCCCACATTGG
NOX2	F	AGCTATGAGGTGGTGATGTTAGTGG
	R	CACAATATTTGTACCAGACAGACTTGAG
NOX4	F	TGTTGGGCCTAGGATTGTGTT
	R	AGGGACCTTCTGTGATCCTCG
p22 phox	F	CCGTCTGCTTGGCCATTG
	R	AACCTGTGGCCGCTCCTT
p47phox	F	TGGTGGTTTGCCAGATGAA
	R	GCCTCGTCGGGACTGTCA
p67 phox	F	TGCTCAAGGTGCATTACAAATACAC
	R	CGAGAGCGCCAGCTTCTTAG
Rac2	F	CCAGCCAAGTGAGGGTCTGA
	R	GAGTGGACAGTCCAAGAAG
NOXO1	F	GGAAGTGGGAGGCAGTTCTG
	R	TGAGGTCTCCAGCACATGGA
GAPDH	F	TGTGTCCGTCGTGGATCTGA
	R	GATGCCTGCTTCACCACCTT

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