

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Primer sequences for RT-qPCR.**

Target	Sequences
Mmu-ATF4	Forward: 5'-CCTGAACAGCGAAGTGTTGG-3' Reverse: 5'-TGGAGAACCCATGAGGTTTCAA-3'
Mmu-BMP2	Forward: 5'-GGGACCCGCTGTCTTCTAGT-3' Reverse: 5'-TCAACTCAAATTCGCTGAGGAC-3'
Mmu-OPN	Forward: 5'-ATCTCACCATTCCGGATGAGTCT-3' Reverse: 5'-TGTAGGGACGATTGGAGTGAAA-3'
Mmu-Osteocalcin	Forward: 5'-CTGACCTCACAGATGCCAAGC-3' Reverse: 5'-AGATGCGTTTGTAGGCGGTC-3'
Mmu-TNF- $\alpha$	Forward: 5'-ACGGCATGGATCTCAAAGAC-3' Reverse: 5'-AGATAGCAAATCCGGCTGACG-3'
Mmu-IL-6	Forward: 5'-GTCCTTCCTACCCCAATTTCCA-3' Reverse: 5'-TAACGCACTAGGTTTGCCGA-3'
Mmu-IL-1 $\beta$	Forward: 5'-TGTGAAATGCCACCTTTTGA-3' Reverse: 5'-GGTCAAAGGTTTGAAGCAG-3'
Mmu-iNOS	Forward: 5'-CCAAGCCCTCACCTACTTCC-3' Reverse: 5'-CTCTGAGGGCTGACACAAGG-3'
Mmu-MCP1	Forward: 5'-CCACTCACCTGCTGCTACTCA-3' Reverse: 5'-TGGTGATCCTCTTGTAGCTCTCC-3'
Mmu-GAPDH	Forward: 5'-AGGTCCGGTGTGAACGGATTTG-3' Reverse: 5'-GGGGTCGTTGATGGCAACA-3'

**Supplementary Table 2. Antibodies used for Western blot analysis.**

Antibody	Molecular weight	Dilution ratio	Source and product number
ATF4	49 kDa	1:1000	CST, #11815
GAPDH	37 kDa	1:1000	CST, #2118
p-PERK/PERK	125 kDa	1:1000	Abcam, ab229912
P-eIF-2a/eIF-2a	65 kDa	1:2000	Abcam, ab169528
BMP2	44 kDa	1:1000	Abcam, ab284387
OPN	35 kDa	1:1000	Abcam, ab214050
Osteocalcin	11 kDa	1:10000	Abcam, ab133612
Anti-rabbit IgG (secondary antibody)		1:1000	CST, #7074
Anti-mouse IgG (secondary antibody)		1:1000	CST, #7076