**Supplementary File 3** Primer sequences for RT-PCR

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| **Name** | **Sequence** | **Length (bp)** |
| TNF-α  | 5`CCTGTAGCCCACGTCGTAG  | 148 |
| 3`GGGAGTAGACAAGGTACAACCC  |
| IL-1β  | 5`GCAACTGTTCCTGAACTCAACT  | 89 |
| 3`ATCTTTTGGGGTCCGTCAACT  |
| IL-6  | 5`TAGTCCTTCCTACCCCAATTTCC  | 76 |
| 3`TTGGTCCTTAGCCACTCCTTC  |
| MMp3  | 5`ACATGGAGACTTTGTCCCTTTTG  | 192 |
| 3`TTGGCTGAGTGGTAGAGTCCC  |
| MMp9 | 5`CTGGACAGCCAGACACTAAAG | 144 |
| 3`CTCGCGGCAAGTCTTCAGAG |
| MMp10 | 5`GAGCCACTAGCCATCCTGG | 101 |
| 3`CTGAGCAAGATCCATGCTTGG |
| MMp13  | 5`CTTCTTCTTGTTGAGCTGGACTC  | 173 |
| 3`CTGTGGAGGTCACTGTAGACT  |
| Gpx1 | 5`CAATCAGTTCGGACACCAGGAG | 128 |
| 3`TCTCACCATTCACTTCGCACTTC |
| Gpx3 | 5`CTTCTTCTTGTTGAGCTGGACTC  | 173 |
| 3`CTGTGGAGGTCACTGTAGACT  |
| CAT  | 5`AGCGACCAGATGAAGCAGTG | 180 |
| 3`TCCGCTCTCTGTCAAAGTGTG |
| SOD1 | 5`GGTGAACCAGTTGTGTTGTC | 203 |
| 3`CCGTCCTTTCCAGCAGTC |
| SOD2 | 5`CAGACCTGCCTTACGACTATGG | 112 |
| 3`CTCGGTGGCGTTGAGATTGTT |
| Aggrecan | 5`GGTGAACCAGTTGTGTTGTC | 203 |
| 3`CCGTCCTTTCCAGCAGTC |
| Collagen Ⅱ | 5`GGGAATGTCCTCTGCGATGAC | 65 |
| 3`GAAGGGGATCTCGGGGTTG |
| GAPDH | 5`GGTCGGTGTGAACGGATTTG | 508 |
| 3`ATGAGCCCTTCCACAATG |