**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 |