**Supplementary file 1. Sequences of primers used for RT-PCR.**

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| **Reagent type (species) or resource** | **Designation** | **Source or reference** | **Identifiers** | **Additional information** |
| Sequence-based reagent | *Arg1*\_forward | This study | PCR primers | 5’- ACCTGGCCTTTGTTGATGTCCCTA-3’ |
| Sequence-based reagent | *Arg1*\_reverse | This study | PCR primers | 5’- AGAGATGCTTCCAACTGCCAGACT-3’ |
| Sequence-based reagent | *Cd38*\_forward | This study | PCR primers | 5’- GCCGGAGATGAGAGATCAG-3’ |
| Sequence-based reagent | *Cd38*\_reverse | This study | PCR primers | 5’- GGGCGTAGTCTTCTCTTGTG-3’ |
| Sequence-based reagent | *Fizz1*\_forward | This study | PCR primers | 5’- TCCAGCTGATGGTCCCAGTGAATA-3’ |
| Sequence-based reagent | *Fizz1*\_reverse | This study | PCR primers | 5’- ACAAGCACACCCAGTAGCAGTCAT-3’ |
| Sequence-based reagent | *Gpr18*\_forward | This study | PCR primers | 5’- GCACTCTCTCTCTGGGACTG-3’ |
| Sequence-based reagent | *Gpr18*\_reverse | This study | PCR primers | 5’- TGGTATGTAGAACCTCCTGTCTG-3’ |
| Sequence-based reagent | *Grx1*\_forward | This study | PCR primers | 5’- TGCAGAAAGACCCAAGAAATCCTCAGTCA-3’ |
| Sequence-based reagent | *Grx1*\_reverse | This study | PCR primers | 5’- TGGAGATTAGATCACTGCATCCGCCTATG-3’ |
| Sequence-based reagent | *Grx2*\_forward | This study | PCR primers | 5’- AAGGCTGTGGAGTTGGATATG-3’ |
| Sequence-based reagent | *Grx2*\_reverse | This study | PCR primers | 5’- TATCCTGGGAACGGTTCTTTC-3’ |
| Sequence-based reagent | *Grx3*\_forward | This study | PCR primers | 5’- ACGCTGTGGTTTCAGCAAG-3’ |
| Sequence-based reagent | *Grx3*\_reverse | This study | PCR primers | 5’- GGATAGGTGGGCCAATTAGAG-3’ |
| Sequence-based reagent | *Grx5*\_forward | This study | PCR primers | 5’- GAGCTGAGGCAAGGTATTAAAG-3’ |
| Sequence-based reagent | *Grx5*\_reverse | This study | PCR primers | 5’- CTCGCCGTTGAGGTACAC-3’ |
| Sequence-based reagent | *Hif1a\_*forward | This study | PCR primers | 5’- AGCTTCTGTTATGAGGCTCACC-3’ |
| Sequence-based reagent | *Hif1a*\_reverse | This study | PCR primers | 5’- TGACTTGATGTTCATCGTCCTC-3’ |
| Sequence-based reagent | *Il12b*\_forward | This study | PCR primers | 5’- TCATCAGGGACATCATCAAAC-3’ |
| Sequence-based reagent | *Il12b*\_reverse | This study | PCR primers | 5’- TTGAGGGAGAAGTAGGAATGG-3’ |
| Sequence-based reagent | *Il1b\_*forward | This study | PCR primers | 5’- CCACCTTTTGACAGTGATGAG-3’ |
| Sequence-based reagent | *Il1b*\_reverse | This study | PCR primers | 5’- CCAGGTCAAAGGTTTGGAAGC-3’ |
| Sequence-based reagent | *Il6*\_forward | This study | PCR primers | 5’- TTCCATCCAGTTGCCTTCTTG-3’ |
| Sequence-based reagent | *Il6*\_reverse | This study | PCR primers | 5’- TCATTTCCACGATTTCCCAGA-3’ |
| Sequence-based reagent | *Nos2*\_forward | This study | PCR primers | 5’- CCAAGCCCTCACCTACTTCC-3’ |
| Sequence-based reagent | *Nos2*\_reverse | This study | PCR primers | 5’- CTCTGAGGGCTGACACAAGG-3’ |
| Sequence-based reagent | *Txn1*\_forward | This study | PCR primers | 5’- ATGACTGCCAGGATGTTGC-3’ |
| Sequence-based reagent | *Txn1*\_reverse | This study | PCR primers | 5’- CCTTGTTAGCACCGGAGAAC-3’ |
| Sequence-based reagent | *Txnip*\_forward | This study | PCR primers | 5’- CCTGACCTAATGGCACCAG-3’ |
| Sequence-based reagent | *Txnip*\_reverse | This study | PCR primers | 5’- AGGAATGAACATGCAGGAAAC-3’ |
| Sequence-based reagent | *Txnip* mRNA in KO\_forward | This study | PCR primers | 5’- CTTCACCCCCCTAGAGTGAT-3’ |
| Sequence-based reagent | *Txnip* mRNA in KO\_reverse | This study | PCR primers | 5’- CCCAGAGCACTTTCTTGGAC-3’ |
| Sequence-based reagent | *Txnrd1*\_forward | This study | PCR primers | 5’- AAAGACGATGAACGTGTCG-3’ |
| Sequence-based reagent | *Txnrd1*\_reverse | This study | PCR primers | 5’- CTTAGTCAGCCCACACTTGAG-3’ |
| Sequence-based reagent | *Txnrd1* gDNA\_forward | This study | PCR primers | 5’- ACAGGAGTGATCCCCACAGACC-3’ |
| Sequence-based reagent | *Txnrd1* gDNA\_reverse | This study | PCR primers | 5’- CTGGAACCGCCCTGAATATCACC-3’ |
| Sequence-based reagent | *Txnrd1* mRNA in KO\_forward | This study | PCR primers | 5’- GCTGACTAAGCAGCAGCTGG-3’ |
| Sequence-based reagent | *Txnrd1* mRNA in KO\_reverse | This study | PCR primers | 5’- AACCTCAGCAGCCAGACTGG-3’ |
| Sequence-based reagent | *Ym1*\_forward | This study | PCR primers | 5’- AGAAGGGAGTTTCAAACCT-3’ |
| Sequence-based reagent | *Ym1*\_reverse | This study | PCR primers | 5’- GTCTTGCTCATGTGTGTAAGTGA-3’ |
| Sequence-based reagent | *Tbp*\_forward  (housekeeping for mRNA) | This study | PCR primers | 5’- TTGACCTAAAGACCATTGCACTTC-3’ |
| Sequence-based reagent | *Tbp*\_reverse  (housekeeping for mRNA) | This study | PCR primers | 5’- TTCTCATGATGACTGCAGCAAA-3’ |
| Sequence-based reagent | *Txnrd1*\_forward  (housekeeping for DNA) | This study | PCR primers | 5’- ACAGATCGAAGCAGGAACAC-3’ |
| Sequence-based reagent | *Txnrd1*\_reverse  (housekeeping for DNA) | This study | PCR primers | 5’- TTCAGAGAGGAAAGTCACCC-3’ |
| Sequence-based reagent | *Il12b*  *“P*romoter”\_forward  (for ChIP) | This study | PCR primers | 5’- AAGCACCAGGAGCAGCCAA-3’ |
| Sequence-based reagent | *Il12b*  *“P*romoter”\_reverse  (for ChIP) | This study | PCR primers | 5’- CTGGAGTCTGAATCTGGAC-3’ |
| Sequence-based reagent | *Il12b “*Ctr primers”\_forward  (for ChIP) | This study | PCR primers | 5’- GGAAGCACGGCAGCAGAA-3’ |
| Sequence-based reagent | *Il12b “*Ctr primers”\_reverse  (for ChIP) | This study | PCR primers | 5’- ATCATGGACACGTGGCAG-3’ |
| Sequence-based reagent | *Il1b “P*romoter”\_forward  (for ChIP) | This study | PCR primers | 5’- GGTAGCAATAGCCTCTTCC-3’ |
| Sequence-based reagent | *Il1b “P*romoter”\_reverse  (for ChIP) | This study | PCR primers | 5’- CAGGGTTTGTTGTCCAACTTG-3’ |
| Sequence-based reagent | *Il1b “*Ctr primers”\_forward  (for ChIP) | This study | PCR primers | 5’- CCATGAGCTTTGTACAAGG-3’ |
| Sequence-based reagent | *Il1b “*Ctr primers”\_reverse  (for ChIP) | This study | PCR primers | 5’- GGCTTCTCTACTGATGGA-3’ |
| Sequence-based reagent | *Il6 “P*romoter”\_forward  (for ChIP) | This study | PCR primers | 5’- AATCAGCCCCACCCACTC-3’ |
| Sequence-based reagent | *Il6 “P*romoter”\_reverse  (for ChIP) | This study | PCR primers | 5’- GCTCCAGAGCAGAATGAG-3’ |
| Sequence-based reagent | *Il6 “*Ctr primers”\_forward  (for ChIP) | This study | PCR primers | 5’- CCTCTGGTCTTCTGGAGT-3’ |
| Sequence-based reagent | *Il6 “*Ctr primers”\_reverse  (for ChIP) | This study | PCR primers | 5’- TCCCACACTGCATGAGAG-3’ |
| Sequence-based reagent | *Nfkbia “P*romoter”\_forward  (for ChIP) | This study | PCR primers | 5’- AGGCTGCAGGGAAGTACCT-3’ |
| Sequence-based reagent | *Nfkbia “P*romoter”\_reverse  (for ChIP) | This study | PCR primers | 5’- TTTCCAAGCCAGTCAGACT-3’ |
| Sequence-based reagent | *Nfkbia “*Ctr primers”\_forward  (for ChIP) | This study | PCR primers | 5’- GTGCTGATGTCAACGCTC-3’ |
| Sequence-based reagent | *Nfkbia “*Ctr primers”\_reverse  (for ChIP) | This study | PCR primers | 5’- CAACAAGAGCGAAACCAG-3’ |