**Supplementary File 1 Sequences of primers used in quantitative PCR.**

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| ***Gene*** | **Forward Primer** | | **Reverse Primer** | |
| *Il22* | ATGAGTTTTTCCCTTATGGGGAC | | GCTGGAAGTTGGACACCTCAA | |
| *Il17* | TCCCTCTGTGATCTGGGAA | | CTCGACCCTGAAAGTGAAGG | |
| *Il1β* | CCTTCCAGGATGAGGACATGA | | TGAGTCACAGAGGATGG-GCTC | |
| *Il6* | TAGTCCTTCCTACCCCAATTTCC | | TTGGTCCTTAGCCACTCCTTC | |
| *Ifnγ* | ATGAACGCTACACACTGCATC | | CCATCCTTTTGCCAGTTCCTC | |
| *Tbp* | ACCTTATGCTCAGGGCTTGG | | GCCGTAAGGCATCATTGGAC | |
| *RpL32* | GAGCAACAAGAAAACCAAGCA | | TGCACACAAGCCATCTACTCA | |
| *Hprt2* | TCAGTCAACGGGGGACATAAA | | GGGGCTGTACTGCTTAACCAG | |
| *Hsl* | CCAGCCTGAGGGCTTACTG | | CTCCATTGACTGTGACATCTCG | |
| *Adrb3* | GGCCCTCTCTAGTTCCCAG | | TAGCCATCAAACCTGTTGAGC | |
| *Chrebpβ* | AGATGGAGAACCGACGTATCA | | ACTGAGCGTGCTGACAAGTC | |
| *Dio2* | AATTATGCCTCGGAGAAGACCG | | GGCAGTTGCCTAGTGAAAGGT | |
| *Atp1a2* | CCACCACTGCGGAAAATGG | | GCCCTTAGACAGATCCACTTGG | |
| *Atgl* | AACACCAGCATCCAGTTCAA | | GGTTCAGTAGGCCATTCCTC | |
| *Fabp4* | | ACACCGAGATTTCCTTCAAACTG | | CCATCTAGGGTTATGATGCTCTTCA | |
| *Cidea* | | ATCACAACTGGCCTGGTTACG | | TACTACCCGGTGTCCATTTCT | |
| *Ppargc1α* | | GATTGAAGTGGTGTAGCGAC | | GTCGCTACACCACTTCAATC | |
| *Pparg* | | | TCAGCTCTGTGGACCTCTCC | | ACCCTTGCATCCTTCACAAG | |
| *Adrb3* | | GGCCCTCTCTAGTTCCCAG | | TAGCCATCAAACCTGTTGAGC | |
| *Prdm16* | | CAGCACGGTGAAGCCATTC | | GCGTGCATCCGCTTGTG | |
| *Il4* | | GGTCTCAACCCCCAGCTAGT | | GCCGATGATCTCTCTCAAGTGAT | |
| *Ucp1* | | CACCTTCCCGCTGGACACT | | CCCTAGGACACCTTTATACCTAATGG | |
| *Il23a* | | ATGCTGGATTGCAGAGCAGTA | | ACGGGGCACATTATTTTTAGTCT | |
| *Tnf* | | CGTCGTAGCAAACCACCAAG | | GAGATAGCAAATCGGCTGACG | |
| *Adrb2* | | GGGAACGACAGCGACTTCTT | | GCCAGGACGATAACCGACAT | |
| *Fgfr2* | | CCTCGATGTCGTTGAACGGTC | | CAGCATCCATCTCCGTCACA | |
| *Cd47* | | TGGTGGGAAACTACACTTGCG | | CGTGCGGTTTTTCAGCTCTAT | |
| *Cd274* | | GCTCCAAAGGACTTGTACGTG | | TGATCTGAAGGGCAGCATTTC | |
| *Slc7a1* | | CTGCCTCAACACCTATGACCT | | GAGAGCAGCAATCAAGAAGGAG | |
| *Ide* | | AATCCGGCCATCCAGAGAATA | | GGGTCTGACAGTGAACCTATGT | |
| *Cd74* | | AGTGCGACGAGAACGGTAAC | | CGTTGGGGAACACACACCA | |
| *Cd44* | | TCGATTTGAATGTAACCTGCCG | | CAGTCCGGGAGATACTGTAGC | |
| *Ccl4* | | TTCCTGCTGTTTCTCTTACACCT | | CTGTCTGCCTCTTTTGGTCAG | |
| *Il1b* | | GCAACTGTTCCTGAACTCAACT | | ATCTTTTGGGGTCCGTCAACT | |
| *Ccl3* | | TTCTCTGTACCATGACACTCTGC | | CGTGGAATCTTCCGGCTGTAG | |
| *Gata3* | | CTCGGCCATTCGTACATGGAA | | GGATACCTCTGCACCGTAGC | |
| *Rorγt* | | GACCCACACCTCACAAATTGA | | GACCCACACCTCACAAATTGA | |