**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 |