**Supplementary Table 1**

**Primers for semiquantitative RT-PCR and RealTime PCR analyses, oligonucleotides for EMSA analyses, and siRNA and gRNA oligonucleotides were:**

|  |  |  |
| --- | --- | --- |
| **Human Primers** |  |  |
| **name** | **5‘-sequence-3‘** | **product length** |
| *GAPDH F* | ATGCTGGCGCTGAGTAC | 258 bp |
| *GAPDH R* | TGAGTCCTTCCACGATAC |
| *JUNB F* | TCTCTCAAGCTCGCCTCTTC | 413 BP |
| *JUNB R* | AGGTAGCTGATGGTGGTCGT |
| *IRF4 F* | GAGCCAAGCATAAGGTCTGC | 476 bp |
| *IRF4 R* | GGGTCTGGAAACTCCTCTCC |
| *BATF F* | CCCAGGAGAAGTCAGGAAGG | 585 BP |
| *BATF R* | CTTGTCCAGGCCTCTGTCTC |
| *BATF3 F* | CAGCGTCCTGCAGAGGAG | 383 BP |
| *BATF3R* | GCTGGGCAGAGGAGTGTC |
| *AHR F* | TAGGCTCAGCGTCAGTTACC | 380 bp |
| *AHR R* | GGAGACCAGTGGCTTCTTCA |
| *CCL20 F* | CTCCTGGCTGCTTTGATGTC | 207 bp |
| *CCL20R* | ATTTGCGCACACAGACAACT |
| *IL1R1 F* | AGACAAGGCCTTCTCCAAGA | 456 bp |
| *IL1R1 R* | TAAGGGCACACAAGTCCTCC |
| *IL4R F* | AAAACGACCCGGCAGATTTC | 494 bp |
| *IL4R R* | CTCTTTGGCAGCCTTGTGAG |
| *IL6R F* | CGGAAGACAATGCCACTGTT | 374 bp |
| *IL6R R* | GCAGGAGAACTTCTGGGACT |
| *IL17A F* | AGGCAGGAATCACAATCCCA | 364 bp |
| *IL17A R* | CCCACGGACACCAGTATCTT |
| *IL17F F* | ATCAATGAAAACCAGCGCGT | 324 bp |
| *IL17F R* | GGTCTCTTGCTGGATGGGAA |
| *IL18R1 F* | CGCCGAGTTTGAAGATCAGG | 408 bp |
| *IL18R1 R* | CTTTTGGTGTCTGTGCCTCC |
| *IL21R1 F* | CTCACCCTTACCTGGCAAGA | 450 bp |
| *IL21R1 R* | ATAGCTCGAGTCTTTGCGGA |
| *IL22 F* | ACCTTCATGCTGGCTAAGGA | 384 bp |
| *IL22 R* | TTGCTCTGGTCAAATGCAGG |
| *IL23R F* | ATACCTTCTGCAGCCGTCAT | 198 bp |
| *IL23R R* | GCTTTTGATGTGACCTGGGG |
| *IL26 F* | CGCTTTGTGGAGGACTTTCA | 326 bp |
| *IL26 R* | TCACCTAACATGCCGTCAGT |
| *NCR1 F* | TACTGCCGTCTAGACACTGC | 392 BP |
| *NCR1 R* | AGGAACCACACTAGAGCC |
| *NFKBIZ F* | TCAGGCGATTCAGAAGGGAG | 482 bp |
| *NFKBIZ R* | CTGGCTGTTCGTTCTCCAAG |
| *RUNX2 F* | CTGTGGTTACTGTCATGGCG | 415 bp |
| *RUNX2 R* | TGCCTGGGGTCTGTAATCTG |
| *TNFSFR8 F* | AGTGCTCTTCTGGGTGATCC | 416 bp |
| *TNFSFR8 R* | CGGTGTCAGCCTTCATGATG |
| *RORC1 F* | ACCGATGTGGACTTCGTTTT | 414 bp |
| *RORC1 R* | TCCTAACCAGCACCACTTCC |
| *RORC2 F* | GAGAAGGACAGGGAGCCAAG | 348 bp |
| *RORC2 R* | TGCAGCTGTTTCTGCACTTC |
|  |  |  |
|  |  |
| **Primers used for qPCR** |  |  |
| **name** | **5‘-sequence-3‘** | **product length** |
| *HPRT F* | TGACCTTGATTTATTTTGCATACC | 102 bp |
| *HPRT R* | CGAGCAAGACGTTCAGTCCT |
| *AHR F* | CGTCAGTTACCTGAGAGCCAA | 83 bp |
| *AHR R* | AGTTATCCTGGCCTCCGTTTC |
| *BATF F* | ATCGTATTGCCGCCCAGAAG | 98 bp |
| *BATF R* | TAGAGCCGCGTTCTGTTTCT |
| *BATF3 F* | GTTGCTGCTCAGAGAAGTCG | 117 bp |
| *BATF3 R* | TGTCAGCTTCCCGATCTCTC |
| *IL1R1 F* | GCTCATCGTGATGAATGTGGC | 140 bp |
| *IL1R1 R* | CAGGCCTTGTGGGTTTGTTT |
| *IL6R F* | AGGAGGAAGCATGCTGGC | 120 bp |
| *IL6R R* | CTGGTCAGCACGCCTCTC |
| *IL18R1 F* | CGGGGACGCCTCTCTGAA | 129 bp |
| *IL18R1 R* | TGTGGGGACGTGAAGTACAAG |
| *IL26 F* | CCTTAGGCAGAAATTGAGCCAC | 134 bp |
| *IL26 R* | TATCCAGTTCACTGATGGCTTTGT |
| *RORC2 F* | TGAGAAGGACAGGGAGCCAAG | 88 bp |
| *RORC2 R* | TCCCCACAGATTTTGCAAGGG |
|  | | |
|  | | |
| **Oligonucleotides for EMSA** | | |
| **name** | **5‘-sequence-3‘** | |
| AICE\_Bcl11b - sense | AGCTTAGTGCAGAAATGAGTCAGAGATCAAAGAAG | |
| AICE\_Bcl11b - antisense | AGCTCTTCTTTGATCTCTGACTCATTTCTGCACTA | |
| AICE - sense | AGCTCTTGCCTTAGAGGTTTCGGGATGACTAATACTGTA | |
| AICE - antisense | AGCTTACAGTATTAGTCATCCCGAAACCTCTAAGGCAAG | |
| AICE\_IL12RB - sense | AGCTGCTTTTGCTTTCACTTTGACTGGCCTGGAGACAATGAGTT | |
| AICE\_IL12Rb - antisense | AGCTAACTCATTGTCTCCAGGCCAGTCAAAGTGAAAGCAAAAGC | |
| AP-1- sense | AGCTAGCATGAGTCAGACAC | |
| AP-1- antisense | AGCTGTGTCTGACTCATGCT | |
| Sp1- sense | AGCTATTCGATCGGGGCGGGGCGAGC | |
| Sp1- antisense | AGCTGCTCGCCCCGCCCCGATCGAAT | |
|  |  | |
|  |  | |
| **Accell siRNAs for Knock-Down** | | |
| **gene symbol** | **5‘-sequence-3‘** | |
| siBATF #2 | GAAAGAUGCUCAAGUCCCA | |
| siBATF #3 | GCUCUACGCAAGGAGAUCA | |
| siBATF #4 | GUAUUAAGAAAGAUGCUCA | |
|  |  | |
| siBATF3 #1 | CUCUAGAAUUUGGAUAAUA | |
| siBATF3 #2 | CAGAGAAGUCGGAAGAAGC | |
|  |  | |
| Non-targeting siRNA #1 | Catalog item: D-001910-01-50 | |
| Non-targeting siRNA #2 | Catalog item: D-001910-02-50 | |
|  |  | |
|  |  | |
| **gRNAs for CRISPR/Cas9 used in Figure 2** |  | |
| **gene symbol** | **5‘-sequence-3‘** | |
| BATF gRNA Oligo 1 | CACCGTGTGAGAAGAGTTCAGAGGA | |
| BATF gRNA Oligo 2 | AAACTCCTCTGAACTCTTCTCACAC | |
| BATF3 gRNA Oligo 1 | CACCGGCAGCCGCAGCAGCAGGTAG | |
| BATF3 gRNA Oligo 2 | AAACCTACCTGCTGCTGCGGCTGCC | |