**SUPPLEMENTARY FILE**

Table S1: Forward and Reverse Primer Sequence for housekeeping genes and selected candidate genes.

|  |  |  |
| --- | --- | --- |
| NCBI GENE ID | GENES | PRIMER SEQUENCE |
|  |  | Forward | Reverse |
| 14433 | GAPDH | 5’-AGGTCGGTGTGAACGGATTTG-3’ | 5’- TGTAGACCATGTAGTTGAGGTCA-3’ |
| 11461 | ACTB-ACTIN | 5’-GGCTGTATTCCCCTCCATCG-3’ | 5’-CCAGTTGGTAACAATGCCATGT-3’ |
| 26362 | AXL | 5’- TGGTGAGGGAGGAGCATGTT-3’ | 5’-AAAAGAAGGGGAGCTTGCTGA-3’ |
| 60533 | PD-L1 | 5’-GCTCCAAAGGACTTGTACGTG-3’ | 5’-TGATCTGAAGGGCAGCATTTC-3’ |
| 12525 | CD8A | 5’-CCGTTGACCCGCTTTCTGT-3’ | 5’-CGGCGTCCATTTTCTTTGGAA-3’ |
| 19225 | COX-2 | 5’-TTCAACACACTCTATCACTGGC-3’ | 5’- AGAAGCGTTTGCGGTACTCAT-3’ |
| 83430 | IL23A | 5’- ATGCTGGATTGCAGAGCAGTA-3’ | 5’- ACGGGGCACATTATTTTTAGTCT-3’ |
| 14086 | FASCIN | 5’-GACTGCGAAGGTCGCTACC-3’ | 5’- CTGATCGGTCTCTTCATCCTGA-3’ |
| 56717 | MTOR | 5’-ACCGGCACACATTTGAAGAAG-3’ | 5’- CTCGTTGAGGATCAGCAAGG-3’ |
| 18412 | P62 | 5’-AGGATGGGGACTTGGTTGC-3’ | 5’-TCACAGATCACATTGGGGTGC-3’ |
| 67443 | LC3II | 5’-TTATAGAGCGATACAAGGGGGAG-3’ | 5’- CGCCGTCTGATTATCTTGATGAG-3’ |
| 16010 | IGFBP4 | 5’-GAGCGAACATCCCAACAACAG-3’ | 5’-TGTCCCCACGATCTTCATCTT-3’ |
| 22341 | VEGFC | 5’-TTTGCCAATCACACTTCCTGC-3’ | 5’-ACACTGTGGTAATGTTGCTGG-3’ |
| 16193 | IL6 | 5’-TAGTCCTTCCTACCCCAATTTCC | 5’-TTGGTCCTTAGCCACTCCTTC-3’ |
| 240168 | RASGRP3 | 5’-AACGACAGTTACTTGCCCAGA-3’ | 5’-CCTCAGTCATGCGAATCAAACC-3’ |
| 216148 | SHC2 | 5’-CAAGGGCGGCTTCATTCAC-3’ | 5’-CCGAACGATGTAAGAGACCCC-3’ |
| 14456 | GAS6 | 5’-TGCTGGCTTCCGAGTCTTC-3’ | 5’-CGGGGTCGTTCTCGAACAC-3’ |
| 494504 | APCDD1 | 5’-CTTCACGGCGTCCAAGTCAT-3’ | 5’- GCAAGTTCGGTTCACCAGTC-3’ |
| 72293 | NKD2 | 5’-GAGCGGAAGAAACGGACCG-3’ | 5’-CCTTAGGGTCTCCATTGAGCA-3’ |
| 320840 | NEGR1 | 5’-TGATCGTGAACTTTGCGCCTA-3’ | 5’-GCTGTACTTGGAGGGTTGAGG-3’ |
| 11658 | ALCAM | 5’-GGCAGTGGGTTCGTCATAAAC-3’ | 5’-ATCGCAGAGACATTCAGGGAG-3’ |
| 18049 | NGF | 5’-CCAGTGAAATTAGGCTCCCTG-3’ | 5’-CCTTGGCAAAACCTTTATTGGG-3’ |
| 17392 | MMP3 | 5’-ACATGGAGACTTTGTCCCTTTTG-3’ | 5’-TTGGCTGAGTGGTAGAGTCCC |

 Table S2: Reaction mix composition

|  |  |  |
| --- | --- | --- |
| Reagent | Volume | Final concentration |
| 2x SensiFAST™ SYBR® No-ROX One-Step Mix | 10 µL  | 1x |
| Forward Primer | 0.8 µL  | 400 nM  |
| Reverse Primer | 0.8 µL  | 400 nM |
| Reverse transcriptase | 0.2 µL  | - |
| RiboSafe RNase Inhibitor | 0.4 µL  | - |
| H2O subscript |  16 µL  | - |
| RNA Template | 4 µL  | - |
|  | Final volume of **20 µL**  |

Table S3: PCR cycle conditions

|  |  |  |  |
| --- | --- | --- | --- |
| **Cycles** | **Temperature** | **Time** | **Notes** |
| 1 | 45°C  | 10 min | Reverse transcription |
| 1 | 45°C  | 2 min | Polymerase activation |
| 40 | 95°C 60°C 72°C  | 5 sec10 sec5 sec | DenaturationAnnealingExtension  |