**Supplementary File 3**

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| **Genes** |  | **Primer sequence** |
| *Trp53* ChIP-qPCR | Forward | 5'-AGGTCAGGAGGGAGGCTATC-3' |
|  | Reverse | 5'-GCTTTGGACACTCGTTCCCT-3' |
| *Trp53* RT-qPCR | Forward | 5'-GTGTGGTGCAGATCGCAGT-3' |
|  | Reverse | 5'-ATCATGCCTTCGGACTTGATG-3' |
| *Gapdh* RT-qPCR | Forward | 5'-TGGATTTGGACGCATTGGTC-3' |
|  | Reverse | 5'-TTTGCACTGGTACGTGTTGAT-3' |
| *Tfdp1* RT-qPCR | Forward | 5'-TTGAAGCCAACGGAGAACTAAAG-3' |
|  | Reverse | 5'-TGGACTGTCCGAAGGTTTTTG-3' |
| *Runx2* RT-qPCR | Forward | 5'-AGAGTCAGATTACAGATCCCAGG-3' |
|  | Reverse | 5'-TGGCTCTTCTTACTGAGAGAGG-3' |
| *Sp7* RT-qPCR | Forward | 5'-AAGTCTCAAGGTTATAGGGACGG-3' |
|  | Reverse | 5'-CCATGCTTGTCTGGGTATAGTGT-3' |
| *Kdm6a* RT-qPCR | Forward | 5'-CGGGCGGACAAAAGAAGAAC-3' |
|  | Reverse | 5'- CATAGACTTGCATCAGATCCTCC-3' |
| *Kdm6b* RT-qPCR | Forward | 5'-TGAAGAACGTCAAGTCCATTGTG-3' |
|  | Reverse | 5'-TCCCGCTGTACCTGACAGT-3' |