**Supplemental Table S1**. Primers were either purchased as prescribed sequences from IDT and then validated, or purchased as proven primer sets from Qiagen.

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| --- | --- | --- | --- |
| Gene | Name | Primer Sequence |  |
| *Bmp2* | Bone morphogenetic protein 2 | GGGACCCGCTGTCTTCTAGT | Forward |
| TCAACTCAAATTCGCTGAGGAC | Reverse |
| *Runx2* | Runt related transcription factor 2 | GGACCGTGGTTACCGTCATG | Forward |
| GCTCGGCAGAGTAGTTCTCATCA | Reverse |
| *Osx* | Osterix | CCCTTCTCAAGCACCAATGG | Forward |
| AAGGGTGGGTAGTCATTTGCATA | Reverse |
| *Alp* | Alkaline phosphatase | ACACCAATGTAGCCAAGAATGTCA | Forward |
| GATTCGGGCAGCGGTTACT | Reverse |
| *Col1a1* | Type I collagen, alpha I | GCTCCTCTTAGGGGCCACT | Forward |
| CCACGTCTCACCATTGGGG | Reverse |
| *Bsp* | Bone sialoprotein | CCGGCCACGCTACTTTCTT | Forward |
| GGACTGGAAACCGTTTC | Reverse |
| *Bglap* | Bone gamma-carboxy-glutamic acid-containing protein; osteocalcin | CAGCGGCCCTGAGTCTGA | Forward |
| GCCGGAGTCTGTTCACTACCTTA | Reverse |
| *Rankl* | Receptor activator of nuclear factor kappa-B ligand | Qiagen Cat. No  QT00147385 |  |
| *Opg* | Osteoprotegerin | Qiagen Cat. No.  QT00106757 |  |
| *Ctsk* | Cathepsin K | AGGCAGCTAAATGCAGAGGGTACA | Forward |
| AGCTTGCATCGATGGACACAGAGA | Reverse |
| *Cyclo* | Cyclophilin | AGCATACAGGTCCTGGCATC | Forward |
| TTCACCTTCCCAAAGACCAC | Reverse |