

Supplemental Table 1:

Primers Used for Quantitative RT-PCR

All primer pairs were tested with serially-diluted cDNAs and were intron-spanning (except the primers for 18S and the *prkg2* transgene).

Abbrev.	Gene Name	Sense Primer (5'-3')	Anti-sense Primer (5'-3')
<i>18S</i>	18s Ribosomal RNA	GATCCATTGGAGGGCAAGTCT	CCAAGATCCAACACTACGAGCTTTTT
<i>acp5</i> (<i>TRAP</i>)	Tartrate-resistant Acid Phosphatase	ATCATGTCTCTGGGGGACAA	AGAGACGTTGCCAAGGTGAT
<i>actb</i>	β -Actin	ACACCCGCCACCAGTTC	TACAGCCCGGGGAGCAT
<i>alpl</i>	Alkaline Phosphatase	TCAGGGCAATGAGGTCACATC	CACAATGCCACGGACTTC
<i>b2m</i>	β 2-Microglobulin	TGGTGCTTGTCTCACTGACC	TTTCCCGTTCTTCAGCATTT
<i>bglap</i>	Osteocalcin	GAGGACCATCTTTCTGCTCAC	CCAAGGTAGCGCCGGAGTCTG
<i>ccnd1</i>	Cyclin-D	GCGTACCCTGACACCAATCT	CTCTTCGCACTTCTGCTCCT
<i>col1a1</i>	Collagen, type I, alpha 1	CTGCTGGCAAAGATGGAGA	ACCAGGAAGACCCTGGAATC
<i>ctnrb1</i>	β -Catenin	GACTCACGCAGTGAAGAATG	GCTGTAGCAGGTTCACTAGA
<i>ctsk</i>	Cathepsin K	AGGCGGCTATATGACCACTG	TCTTCAGGGCTTTCTCGTTC
<i>hppt</i>	Hypoxanthine phosphoribosyl transferase	CCAGACAAGTTTGTGTTGGAT	GCTTTGTATTTGGCTTTTCCA

Abbrev.	Gene Name	Sense Primer (5'-3')	Anti-sense Primer (5'-3')
<i>lrp5</i>	LDL Receptor-related Protein 5	ACTCACGGGTGTCAAAGAGG	AGGGTAGTCGAGGCCAAACT
<i>prkg2</i> (<i>mouse+rat</i>)	Protein Kinase G II (endogenous and transgenic)	GAGAGTACTTTGGAGAAAAGG	GGTTGGTTGAATGTTTCTCG
<i>prkg2</i> <i>transgene</i> (<i>F2R2</i>)	Protein Kinase G II Transgene	CCTCCTGAAAAGGGGGTTCC	GGGCAAACAACAGATGGCTG
<i>spp1</i>	Osteopontin	CCAGGTTTCTGATGAACAGTATCC	ACTTGACTCATGGCTGCCCTTT
<i>tnfsf11</i> (<i>RANKL</i>)	Receptor activator of nuclear factor kappa-B ligand	CAGCCATTTGCACACCTCAC	GTCTGTAGGTACGCTTCCCG
<i>tnfrsf11b</i> (<i>OPG</i>)	Osteoprotogerin	ACAGTTTGCCTGGGACCAAA	CAGGCTCTCCATCAAGGCAA
<i>wnt3a</i>	Wingless-type MMTV integration site family member 3	ATAGCCTGCATCCGCTCTGA	TGGTGACCATTGCCTCAACA
<i>wnt1a</i>	Wingless-type MMTV integration site family member 1	TGTGACAGTGGTGCGTGATA	TGGAGACACTTCCTCACCCA