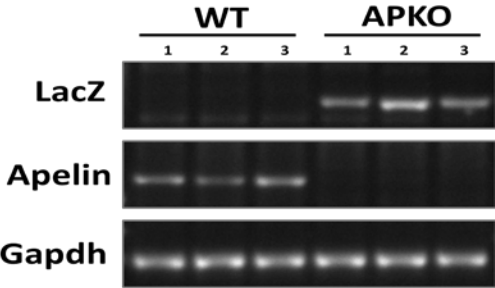


Gene	Source	Sequence	Length (bases)
Runx2	NM_001145920	Forward 5'-CGAGACCAACCGAGTCATTT-3' Reverse 5'-ACGCCATAGTCCCTCCTTTT-3'	20 20
Osterix	NM_130458	Forward 5'-TTTCTCATTAACCTCGTTGCCATCT-3' Reverse 5'-CTTCGGGAAAACGGCAAATA-3'	24 20
Collagen type1	NM_007742	Forward 5'-GCGAAGGCAACAGTCGCT-3' Reverse 5'-CTTGGTGGTTTTGTATTCGATGAC-3'	18 24
Osteocalcin	NM_031368	Forward 5'-CTGACCTCACAGATGCCAAG-3' Reverse 5'-GTAGCGCCGGAGTCTGTTC-3'	20 19
RANK	NM_009399	Forward 5'-GGCTTCTTCTCAGATGTCTTTTCG-3' Reverse 5'-GGTGCAGTTGGTCCAAGGTT-3'	24 20
RANKL	NM_011613	Forward 5'-TTGCACACCTCACCATCAAT-3' Reverse 5'-TCCGTTGCTTAACGTCATGT-3'	20 20
OPG	NM_008764	Forward 5'-CAGAGACCAGGAAATGGTGAA-3' Reverse 5'-AAGCTGCTCTGTGGTGAGGT-3'	21 20
Calcitonin receptor	NM_001042725	Forward 5'-TCCAGAGTGAAAAGGCGGAAT-3' Reverse 5'-AACCTGTTCCACGAGAAGGAACCT-3'	21 23
Apelin	NM_013912	Forward 5'-CCCCTTTTAAGTCCTTTGGCATCT-3' Reverse 5'-CTCGCTAAAAAGTCCCGAAAGTAT-3'	24 24
APJ	NM_011784	Forward 5'-GTGCTCTGGACCGTGTTTC-3' Reverse 5'-AGCTGAGCGTCTCTTTTCGC-3'	19 20
PPAR gamma	NM_001127330	Forward 5'-TGTCTCACAATGCCATCAGGTT-3' Reverse 5'-GCTGGTTCGATATCACTGGAGATC-3'	22 23
CEBP alpha	NM_007678	Forward 5'-GGACCATTAGCCTTGTGTGTACTGTAT-3' Reverse 5'-TGGATCGATTGTGCTTCAAGTT-3'	27 22
Gapdh	NM_008084	Forward 5'-TGCACCACCAACTGCTTAG-3' Reverse 5'-GGATGCAGGGATGATGTTC-3'	19 19

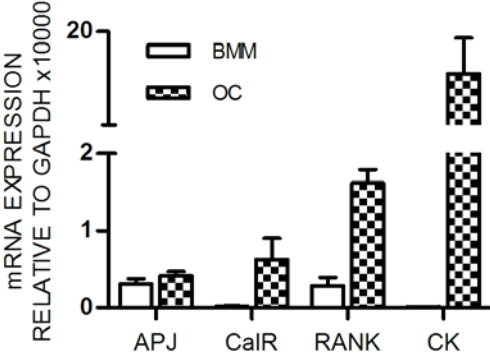
**SUPPLEMENTAL TABLE 1.** The sequences of the primers used for RT-qPCR analysis.

**SUPPLEMENTAL FIGURE 1**

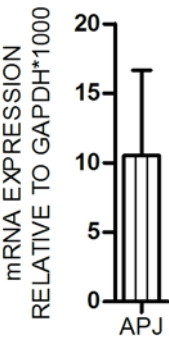


**SUPPLEMENTAL FIGURE 2**

A



B



**EN-12-2034**

**SUPPLEMENTAL FIGURE 1.** Apelin and LacZ mRNA expression in 12-week-old tibias from APKO and WT mice assessed by RT-PCR (n = 3 per group). Gapdh expression was used as the internal control.

**SUPPLEMENTAL FIGURE 2.** A, Expression of APJ, calcitonin receptor (CalR), RANK and Cathepsin K (CK) in 129Sv/J osteoclasts. Gene expression was assessed by RT-qPCR. Bone marrow macrophage precursors were isolated from 129Sv/J mice and treated with M-CSF (20 ng/ml) alone (BMM) or M-CSF (10 ng/ml) and RANKL (60 ng/ml) to stimulate osteoclast differentiation (OC). In vitro derived osteoclasts express APJ, CalR, RANK and CK in a different level, whereas M-CSF-treated bone marrow macrophages only express APJ and RANK. B, Expression of APJ in primary calvarial osteoblasts assessed by RT-qPCR. Gapdh expression was used as the internal control. These data are representative of three experiments.