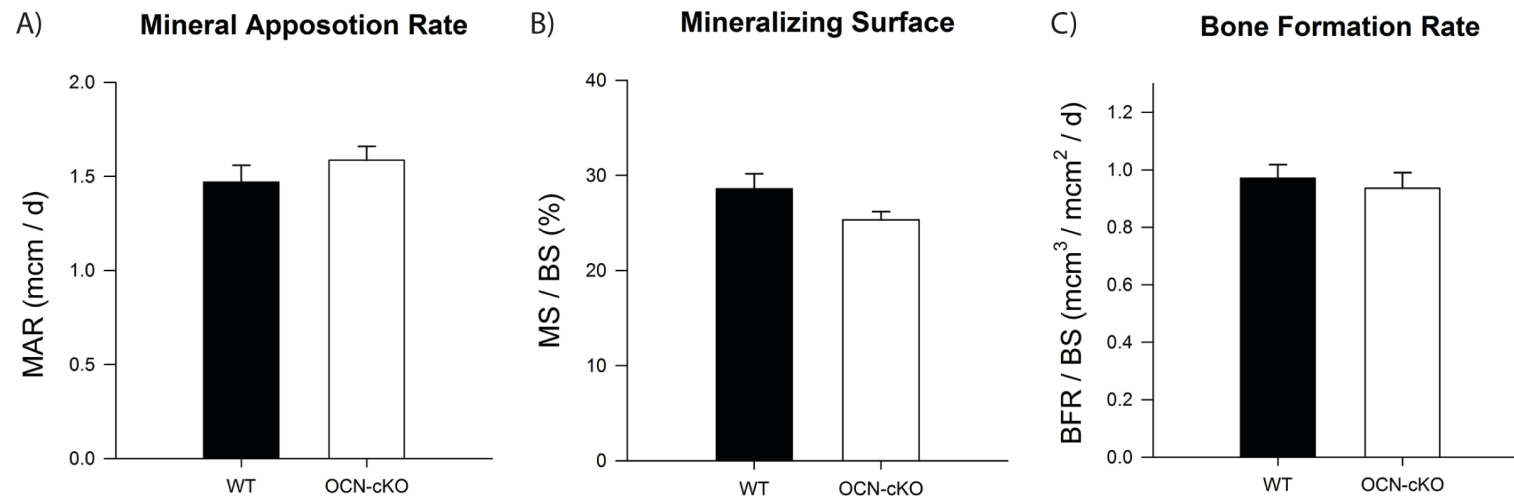
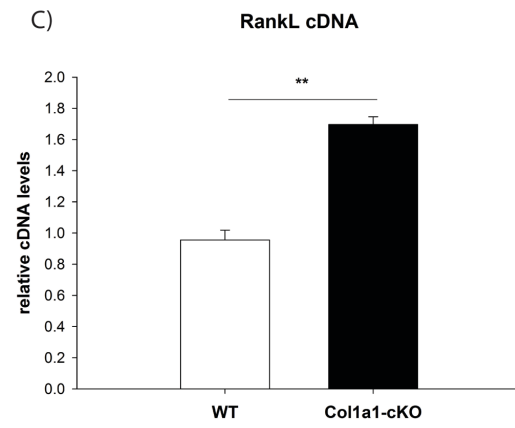
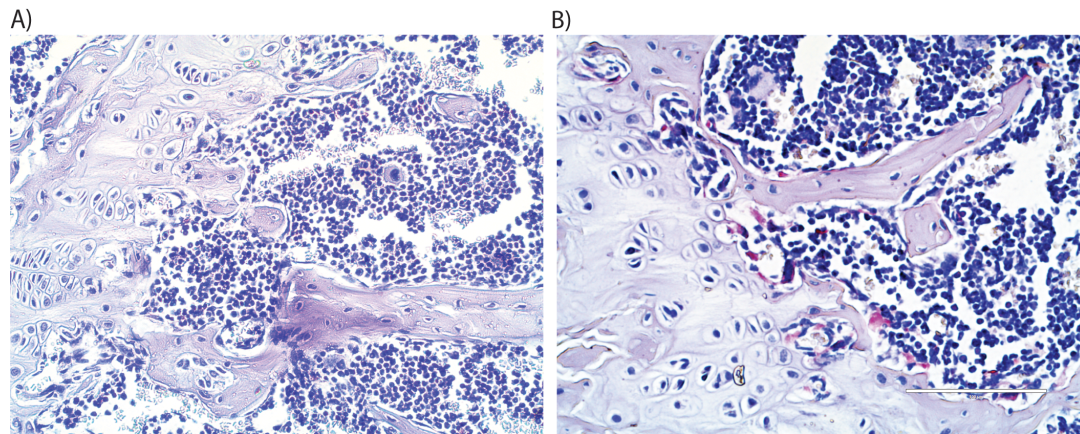


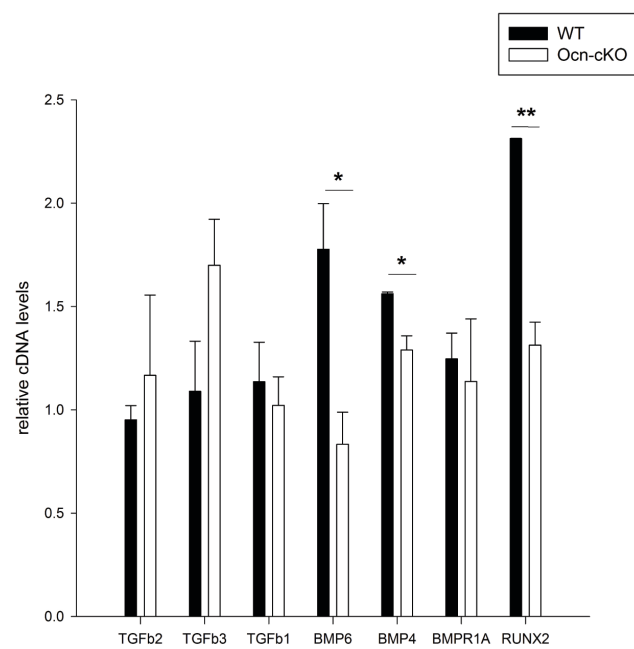
Khalid, et al., Supplemental Figure 1



Khalid, et al., Supplemental Figure 2

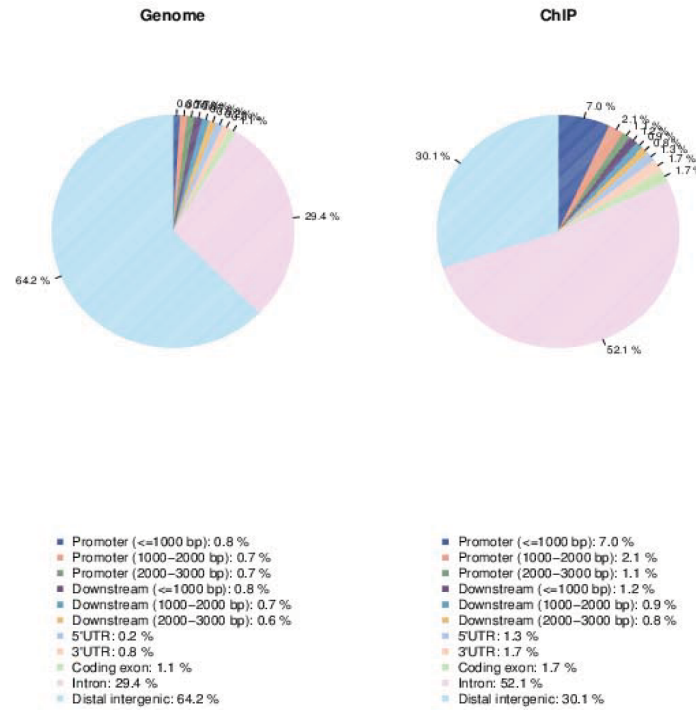


Khalid, et al., Supplemental Figure 3



Khalid, et al., Supplemental Figure 4

A.



B.



Khalid, et al., Supplemental Figure 5

GATA4 SITES IN RANKL ENHANCERS (SEE FIGURE 5)

GATA4 SITES ARE IN RED

100% MATCH USING PATCH ([HTTP://GENE-REGULATION.COM](http://gene-regulation.com))

REGION A

TCTGTCTCCTCTGTGTAATAAATATAAACAGTGCTCCAAAATAAAATAGCAAGTGAGAGCCAGCTTCTCTGAAT
CAATTCAGTACTGGCCAGCATTGAGAGAACAAGGGTTAGAGGGGCTGTTGGCCAAACAGAACAACTAACTATTTC
TCTTAAACAGAAGCATAG

REGION B

GGGGCCAGCCTAGAGAGCCAGAAACCAACCACTGGACCCAACCCACAGCCTCCACCTCAGAGGGCCCTGATGGGG
AGGGAGGAGCGGGTCCCTGAGAGCGAAGAAGAGTGGGAGGGCGAAGGAAAGGAAGGAGGGCAGATGTGGGAGT
GAAAGAGGCACCTCCTGGAGGCTGATTGGCTCTGGAGGCCAGCTCTCCACGAGTTTATAAGAGTTAGGGCTG
CCTGGGGTACCC

REGION C

GGACCACTCAACTTACCCACAACCTGTGTCAAGAAGGTCACTTTCTCTGGACCTAGCTGAGCCCACATCTTTCAGG
GTTCACTCCAATGGGACATGGCATGCCACCCCTATCTTCTGTTTATCTGGCTGAGTGTTCTCACCATAGACCTGT
AGCCACAGTCATGGT

REGION D

GGTCAGAGCCTTAGCCACAGCTGGAAAACACAAGGTATCAGGTTCTCGGCTAAGCCCCCTTGGTGGGAGAGCTGG
GAGCTTCTGACCTCCTT

REGION E

GAGCTGTGTCCTAGAAGAATTGTCCCAAGAGCCCATGAACAGGATAATGGTTTGCACCACCGCTTCTGAAAAGC
AAATGGGATTTTGACATGAACCTCGGAAAGGGGTGAGACCACACTGACATATATTTTCTGGTTCTAATCTTACTTTCCG
TACCACTGTGGACTGCATTCCATAACCCCTCTAACCTAGCGTCCAGCCATTCTACCGCTTTTATCAACTCCAGAATG
GTCTCAGCACAGCATGTCTTGTCTGAGGGCAGGGGACCAGTGGGTGGCCAGACCTCAATCTCTGGCCAGCAACA
CCCAGACTTCTACTCTGAAAAAGCATTATGACATCACCCGGGGCCAATCAAATCAGTCGTCTCGGATGGCTA
TTCTAGATGATTTTGTCTATGATACTGTCTCGTAGCCTAAATAACTGACAATGTAATAAGTGACAAGTATCGTACTTC
TCCATTTTTTAAATTTTTGTCATTTTAATTTGTTTACTATGTGCAGGG

REGION F

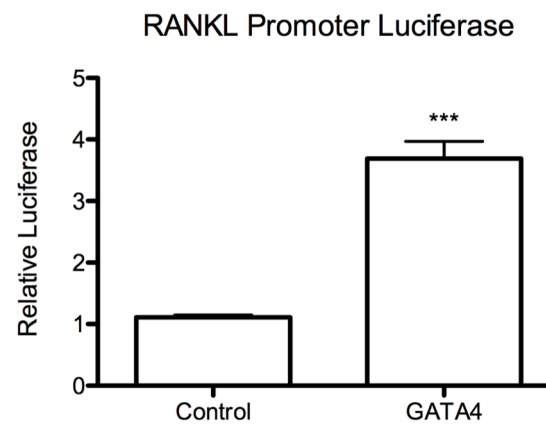
GTGCTGTGAAGCAAAAATCCTATAGCCTCTCCTGACCTGTGTGTTCCCGAAGGAAGCATAATGTCTGTATTTATTTT
GAGATGAAATTTCTCATTACTGTGAGTGTGAGACTCAGTCATTCTGAGGTTCTTCGGAGACAATTCAGCTTTTGTTC
CCAGATGAAAGATTTATTGATGGCCACACAGGGGAGAAAGCCAAAGGCAAAATGATACATGGATGTAATAAGACAAGGC
CTGCACATCACTTCTGGTGTCTAGGGTCTCACTGCACTGTGTGCTGTGATACTGTGTTGTTGGTTCTGTTCTCCTCC
TGGTCAATACAGCCTCGTTACTTCTGAGGCCATTCCAAAAGCAACAAGTGTCTCCAGGAGAACCCAGGGGCA
GCTCAACTGAGTGACGGGACTTTGAGATCGTCTGAATGAGAACAAGTTTGAAGATAATGATGGGGTTGACATTTGT
GTCACCTGGAACACTCACTGCTGACATACTTCCCTCACATTTGTAGTGC

REGION G

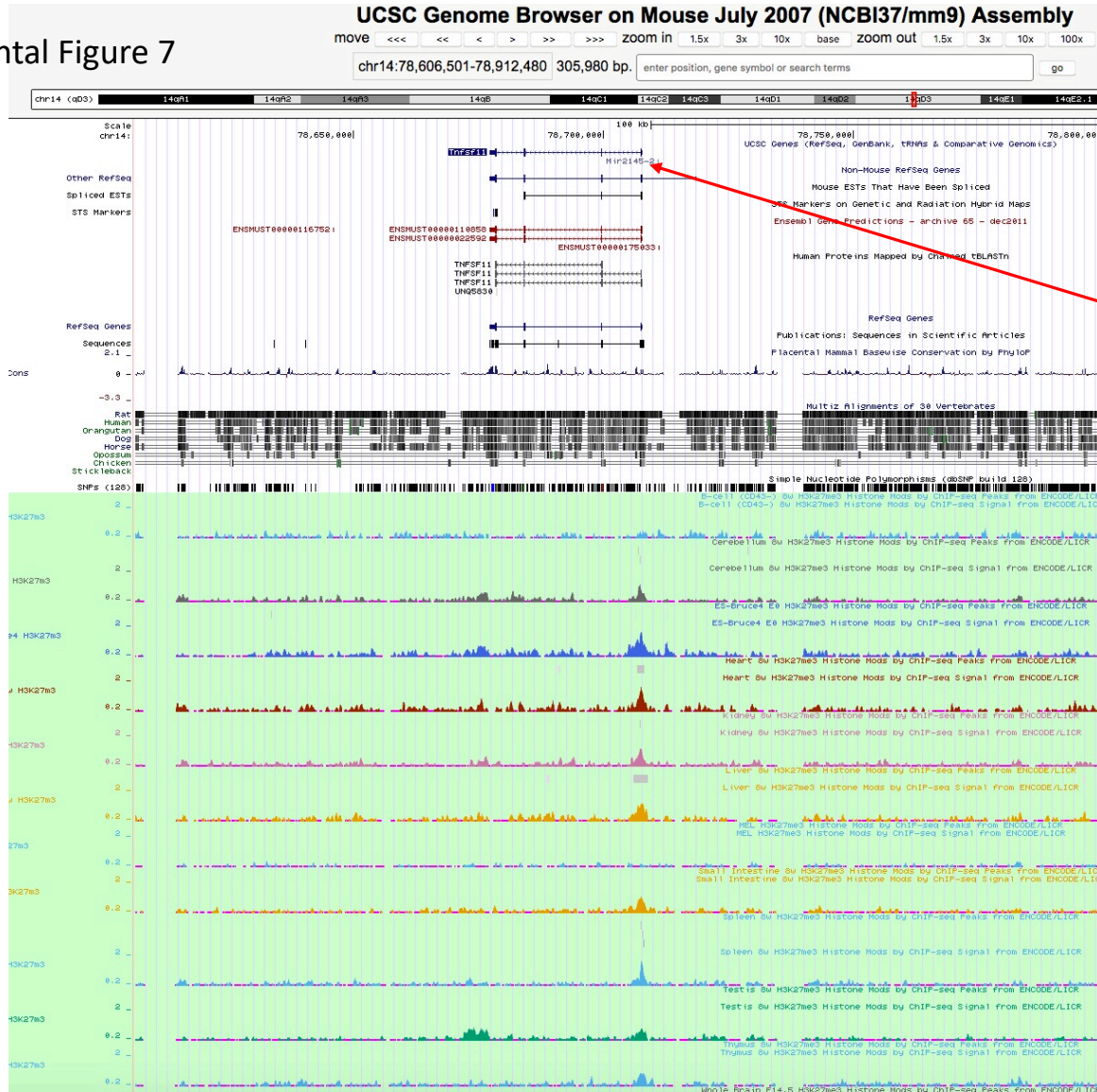
TGCTGTCTCCCGATGTTCTGTCACTGTCTCAGGGCTCAGACCAATGCATTCATCCAGTGGCCAGAAAGCAGC
TTGCCAATGACTTGGCAGTACTCCCTGGGGCTGCACTATTCTGTTGGCAGTGGCCAGGATGCCAGGCATCAC
CCTCCGTGTACAA

REGION H

GAGTTTGCAGGAGGTTGCTCAGGCTTCTTGTCTCGAGGAATACCATGAACAGTTCAGATAAGGGAGAGTCACC
TGACTCCAGACACAGGATTCGAGCCCAGGGCCTGGATTGCAGCTACAGGGG



Khalid, et al., Supplemental Figure 7



Khalid, et al., Supplemental Table 1

Mouse CHIP primers

SEQUENCE	FORWARD PRIMER 5' TO 3'	REVERSE PRIMER 5' TO 3'
IS7	CTGAAGCCAAGAGGCAGATT	CGCACATCCTTTCAGGTGCT
IS8	GTGGCTGCTCTTCGCTGCCA	TGCTGCCACCTGGCCTTTGG
RANKL A	TAGCAAGTGAGAGCCAGCTT	GCCCCCTAACCCCTTGTTT
RANKL B	GGGGCCAGCCTAGAGAGCCA	GGGTACCCAGGCAGCCCTA
RANKL C	GACCTAGCTGAGCCCACATC	AGGAAGATAGGGGGTGGCAT
RANKL D	GGTCAGAGCCTTAGCCACAG	AAGGAGGTCAGAAGCTCCCA
RANKL E	GAGCTGTGTCTAGAAGAAT	CCCTGCACATAGTAAACAAA
RANKL F	GTGCTGTGAAGCAAAAATTC	GCACTACAAATGTGAGGGAA
RANKL G	TGCTGTCTTCCCGATGTTCC	TTGTACACGAGGGTGATGC
RANKL H	GAGTTTGCAGGCAGGTGTTG	CCCCTGTAGCTGCAATCCAA
NC	GTGGCTGCTCTTCGCTGCCA	TGCTGCCACCTGGCCTTTGG
PC	ATTGGGCCTCATCACTTGGG	GGTCTCTCTCGGAGTCAGGT

Khalid, et al., Supplemental Table 2

Mouse mRNA primers

SEQUENCE	FORWARD PRIMER 5' TO 3'	REVERSE PRIMER 5' TO 3'
β-ACTIN	AGCCATGTACGTAGCCATCC	CTCTCAGCTGTGGTGGTGAA
RANKL	AGCCGAGACTACGGCAAGTA	GCGCTCGAAAGTACAGGAAC
OPG	GTCCTGCACAGCTTCACAA	AAACAGCCCAGTGACCATTC
RUNX2	CACGGTGACTCCCCTTACTT	ATACGTGTGACCCAGTGCAA
BMP4	GCGGGACTTCGAGGCGACAC	CGGGACGCTCCGGTACTCA
BMP6	GCGGTGACGGCTGCTGAGTT	GCACGGGGTTGACGTGGAG
BMPR1A	CACCGAAAGCCCAGCTACGCA	GGGGCAGTGTAGGCTGCAA
TGFB1	AGGGCTACCATGCCAACTTC	CCACGTAGTAGACGATGGGC
TGFB2	CTGCCTTCGCCCTCTTTACA	CCCCAGCACAGAAGTTAGCA
TGFB3	ATGACCCACGTCCCCTATCA	ACTCAGACTCCGAGGTCTCC