

Supplemental Table 1: Primer sequences used in PCR reactions

<b>Gene Name</b>	<b>Forward primer</b>	<b>Reverse primer</b>
Gapdh	GGGAAGCCCATCACCATCTT	GCCTCACCCCATTTGATGTT
Acan	CCGCTTGCCAGGGGGAGTTG	GATGATGGGGCGCACGCCGTA
Col2a1	ACTGGTAAGTGGGGCAAGAC	CCACACCAAATTCCTGTTCA
Cxcl12	CACTCCGGGCAGGTGCTCAAAC	AGACCACCCTGGCCTTCATGGG
Cxcr4	TGAGGCGTTTGGTGCTCCGG	GGTGCAGCCGGTACTTGTCCG
Dll4	GCCCGCTCGAGACCCTAGGATT	AGGCGTCATCCCTTGGGGTGT
Gsc	CCAGCAGTGCTCCTGCGTCC	CGACAGCGTGCCACGTTCA
Hey1	CTGCCCCAGAATGGCCACGG	GGTCACCACGGGAAGCACCG
Mepe	TGCTGCCCTCCTCAGAAATATC	GTTCGGCCCCAGTCACTAGA
Mgp	TCCCCTCAGCAGAGGTGGCG	ATTTGGCTCCTCGGCGCTGC
Mmp13	TTCTGGCGCCTGCACCCTCA	GTGAACCGCAGCGCTCAGTC
Osteopontin/Spp1	CCTTGCGCCACAGAATGCTGT	CGGCCGTTGGGGACATCGAC
Ror2	ACTCATCAGCCAGCACAAAC	GTCCTCCATGAACCTCACT
Slit2	GGGAACCGCGAGTGCCGAAA	AGCCAACAGCGACGTCTGC
Sox5	GGCCCACTCCAGCTGCAGGATGAA	GACAGAGGCTTTGAGGGGGCCA
Sox9	AGGAAGCTGGCAGACCAGTA	CGTTCCTCACC GACTTCCTC
Tie2/Tek	CATGCGAGCGGGAAGTCGCA	ATGGGCTCATGGGGGTGCCA
Vdr	AAGCCAGCCTCCCAGCAGGA	AGGCACTGGCAGGGGAAGGG
Wwp2	GCGAGGGCGTGCGGTACTTT	GCGGCGCAGGTTCGTAAGGTT
<b>miR Name</b>	<b>Applied Biosystems catalog number</b>	
snoRNA-202	1232	
miR-503	2456	
miR-376c	2450	
miR-218	521	
miR-669d	2808	
miR-200c	2300	
miR-140	1187	
miR-124a	1182	

Supplemental Table 2: Trabecular bone architecture in the distal femoral metaphysis of 4- and 24-week old mice.

<b>Age</b>	<b>Genotype</b>	<b>n</b>	<b>BV/TV</b>	<b>Tb.N (1/mm)</b>	<b>Tb.Th (mm)</b>	<b>Tb.Sp (mm)</b>
4 wks	WT	5	0.142 (0.043)	5.72 (0.83)	0.034 (0.003)	0.182 (0.025)
	Runx2 <sup>+/-</sup>	5	0.140 (0.012)	6.23 (0.12)	0.032 (0.001)	0.163 (0.003)
	Axin2 <sup>-/-</sup> ; Runx2 <sup>+/-</sup>	6	0.140 (0.051)	6.06 (1.43)	0.032 (0.001)	0.179 (0.042)
	Axin2 <sup>-/-</sup>	4	0.154 (0.028)	6.51 (0.53)	0.032 (0.003)	0.159 (0.014)
24 wks	WT	3	0.134 (0.020)	3.85 (0.37)	0.051 (0.006)	0.260 (0.024)
	Runx2 <sup>+/-</sup>	3	0.140 (0.029)	4.47 (0.57)	0.044 (0.016)	0.224 (0.035)
	Axin2 <sup>-/-</sup> ; Runx2 <sup>+/-</sup>	2	0.070 (0.039)	3.60 (0.89)	0.037 (0.001)	0.284 (0.074)
	Axin2 <sup>-/-</sup>	2	0.122 (0.019)	3.70 (0.47)	0.041 (0.006)	0.276 (0.041)