Supplemental Table 1. Wnt related mRNA transcripts expressed in primary osteoblast-enriched cell cultures from fetal rat bone*

Higher abundance transcripts	*Lower abundance transcripts*
cyclin D1	axin 1
Dkk3	β-catenin
frizzled 1	casein kinase II α1
GSK3α	C-terminal BP1
Jun	cyclin D2
protein phosphatase 2a & 2b, catalytic subunits	disshevelled 1
soluble frizzled related proteins 2 & 4	ERM binding phosphoprotein
wisp-1	frizzled 2
wisp-2	GSK3β
	Lrp6
	porcupine D
	protein phosphatase 2, regulatory subunit A
	Rho A
	soluble frizzled related protein 1
	Tle3
	TCF-4
	Wnt9a

*mRNA levels were analyzed with a commercial gene array, and abundance was estimated by relative signal fluorescence intensity, as determined by densitometry (Rat Wnt Signaling Pathway Microarray from, and contracted analysis by, SABiosciences).

Supplemental Table 2. Primer pairs for RT-PCR*

Gene product	Direction	Sequence, 5' → 3'	Amplicon bp	Reference
β-actin	forward reverse	TGTCACCAACTGGGACGATA GACCAGAGGCATACAGGGAC	215	Primer-BLAST
TβR1	forward reverse	CTCACTGAGAGAACGGAGGG GAACACCAGTGGTTCGGAGT	330	Primer-BLAST
TβR2	forward reverse	TCACTAGGCACGTCATCAGC GATTCTAGAACTTCCGGGGC	286	Primer-BLAST
TβR3	forward reverse	CCGAGAACCAGAAGAAGTGC AGTACCACAGCCATTCAGGG	208	Primer-BLAST
alkaline phosphatase	forward reverse	CGCCTATCAGCTAATGCACA AGGGAAGGGTCAGTCAGGTT	315	Primer-BLAST
collagen α1	forward reverse	TCGATTCACCTACAGCACGC GACTGTCTTGCCCCAAGTTCC	67	(59)
osteocalcin	forward reverse	ACGAGCTAGCGGACCACATT CCCTAAACGGTGGTGCCATA	67	(59)
TCF-4	forward reverse	CGAACAACAGCTTCTCCTCC TAATTGGGAGATGACGAGGC	115	Primer-BLAST
LEF-1	forward reverse	AGACACCCACCAGCTCCTGA CCTGAATCCACCCGTGATG	123	(60)
β-catenin	forward reverse	AGCTGAGATGGCCCAGAAT AAGGGCAAGGTTTCGAATCAA	127	(60)
Runx2	forward reverse	AGCCTCTTCAGCGCAGTGAC CTGGTGCTCGGATCCCAA	59	(59)

*Primer sequences were obtained from the literature for rat (51), adapted from the mouse sequence to comply with rat (52), or predicted from a unique sequence search, using the Primer-BLAST program from the National Center for Biotechnology Information (http://www.ncbi.nlm.nih.gov/tools/primer-blast/index.cgi).

Supplemental Table 3. Oligomers used for nuclear protein binding by EMSA*

Protein	Sequence, 5' → 3'
TCF/LEF	CCTGCAGGA<u>TCAAAG</u>GGGGTAAGA<u>TCAAAG</u>GGGGTA
Runx	C<u>AACCACA</u>GGTTGGTT<u>AACCACA</u>GGTTGG<u>AACCACA</u>GGTTGGTT<u>AACCACA</u>C
AP-1	CGATGCATTGA<u>TGAGT</u>CAGGTATGCAT
Smad	CGGAGTAT<u>GTCTAGAC</u>TGACAATGTAC

*Binding sequences (underlined) were obtained from the MatInspector program from Genomatix (http://www.genomatix.de).