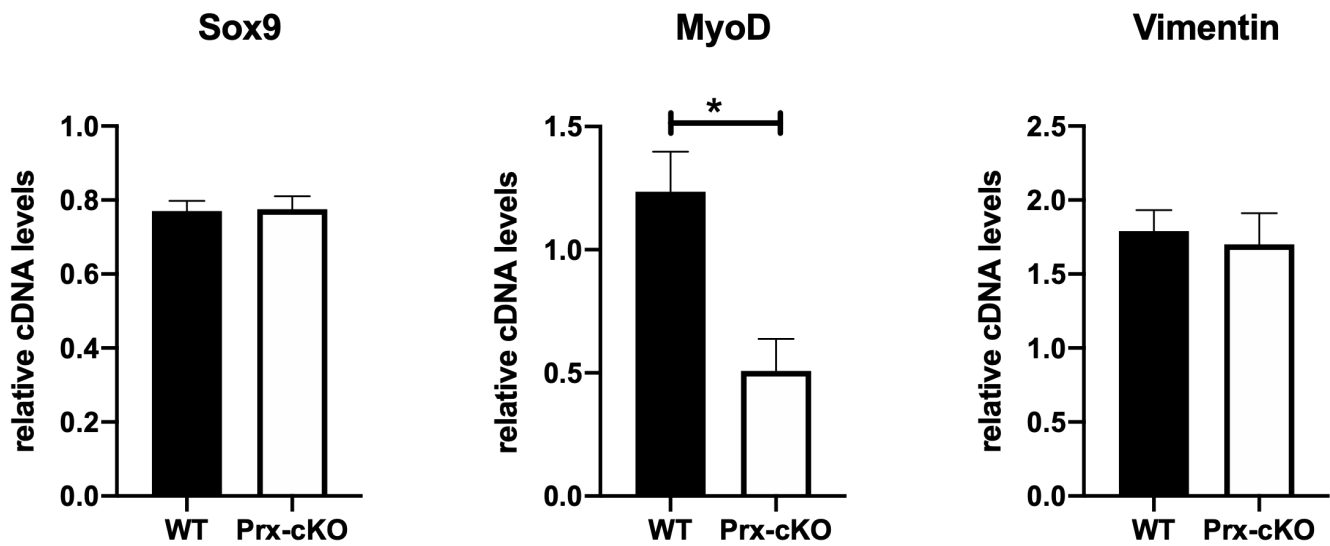


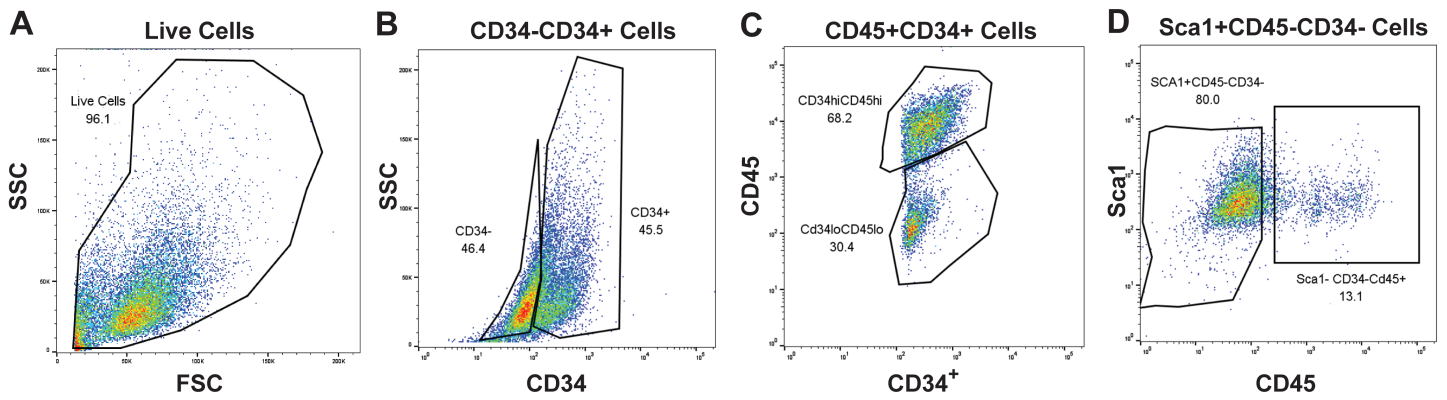
Supplemental Figure 1



Supplemental Figure 1:

Bone marrow cells from WT and *Gata4* Prx-cKO mice were cultured in MesenCult media. RNA was collected and qPCR was performed for the indicated genes.

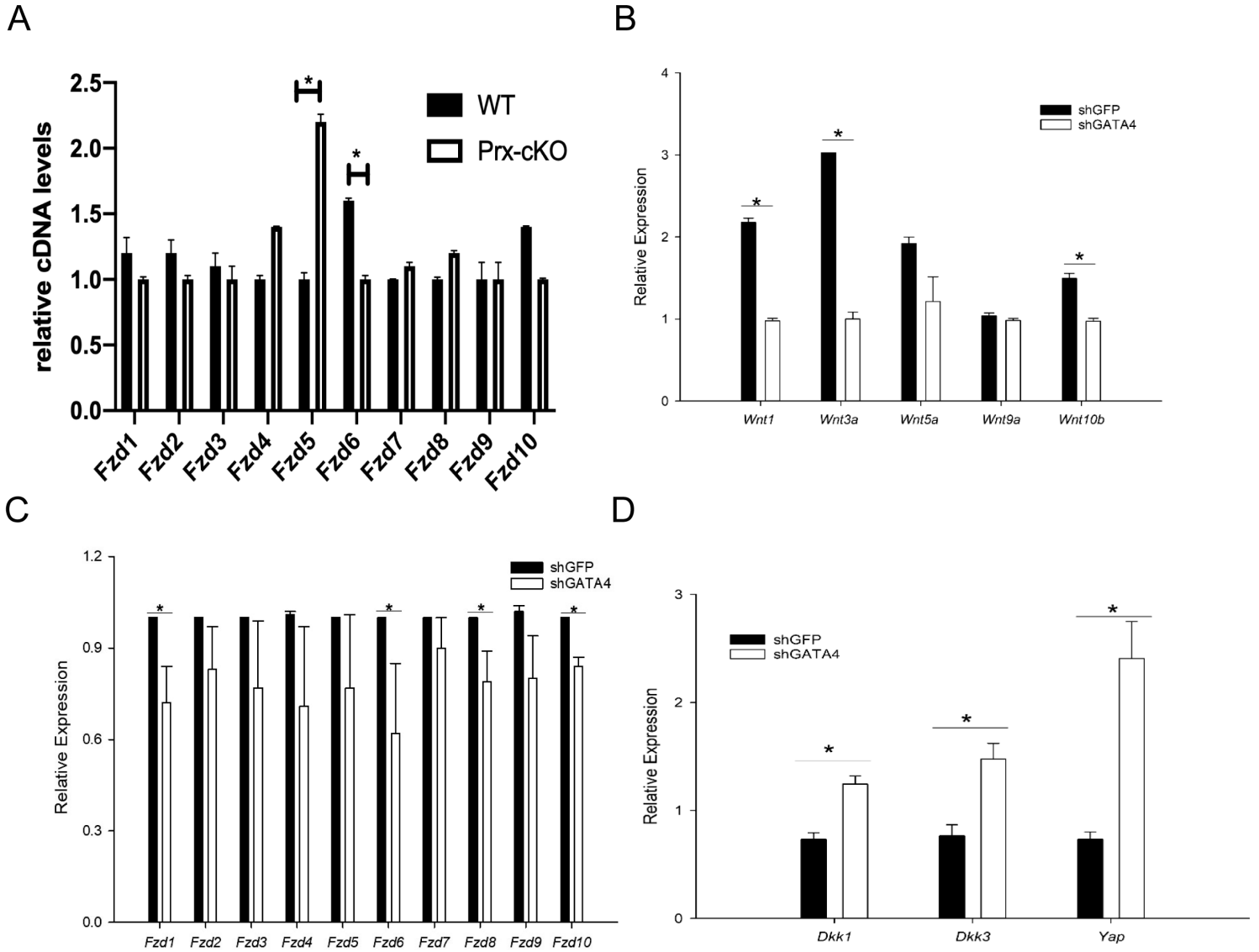
Supplemental Figure 2



Supplemental Figure 2:

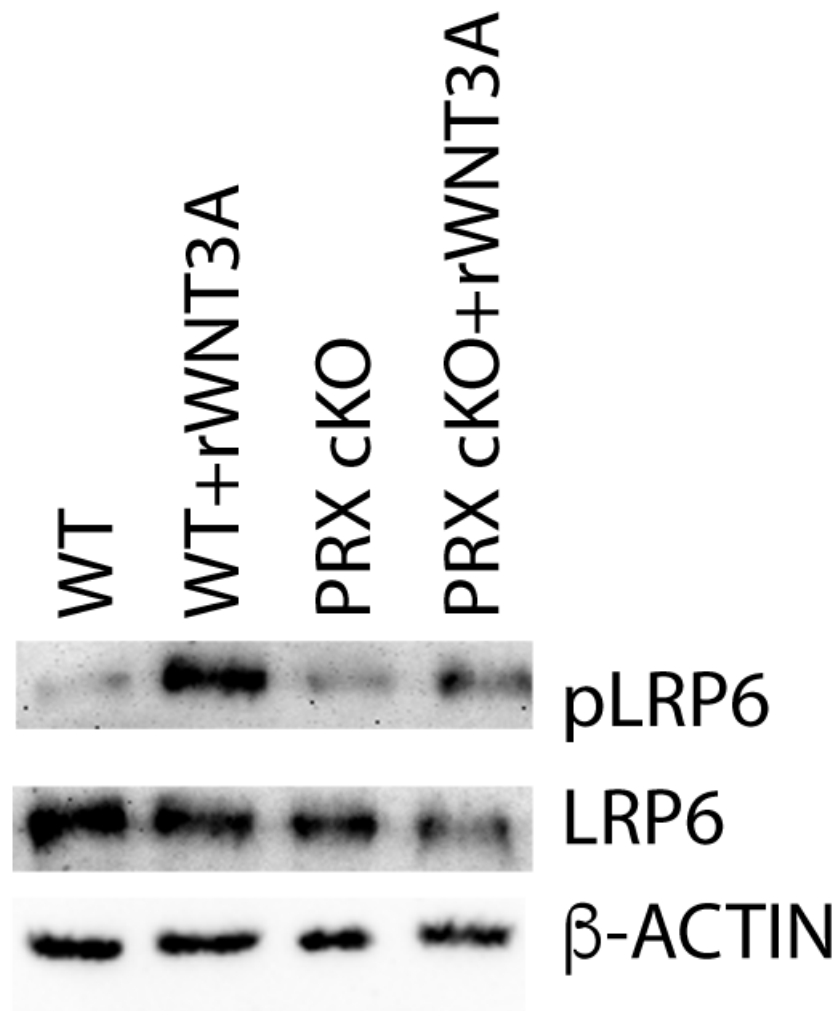
Flow cytometry scheme for identification of Sca1⁺/CD45⁻/CD34⁻/CD44⁻ and Sca1⁺/CD45⁻/CD34⁻/CD44⁺ cells.

Supplemental Figure 3



Supplemental Figure 3: (A) Bone marrow cells from WT and Gata4 Prx-cKO mice were cultured in MesenCult media. RNA was collected and qPCR was performed to the indicated Fzd genes. (B-D) Calvarial osteoblasts were transduced with lentivirus expressing shC or shGATA4. RNA was collected and qPCR was performed for the indicated genes.

Supplemental Figure 4



Supplemental Figure 4: Bone marrow cells from WT and Gata4 Prx-cKO mice were cultured in MesenCult media. The cells were treated with 40 ng/mL rWNT3A for 30 minutes and then lysed for protein. Immunoblots were performed with antibodies to pLRP6, LRP6 and beta-actin.

Supplemental table 1

SEQUENCE	FORWARD PRIMER 5' TO 3'	REVERSE PRIMER 5' TO 3'
B-ACTIN	AGCCATGTACGTAGCCATCC	CTCTCAGCTGTGGTGGTGAA
RUNX2	CACGGTGACTCCCCTTACTT	ATACGTGTGACCCAGTGCAA
PPARG	CAAGAATACCAAAGTGCGATCAA	GAGCTGGGTCTTTTCAGAATAATAAG
NESTIN	GAAGCTGGGACTGAAGCACT	GGTAGAGGCCCAAGGGAGTA
WNT1	ACAGCGTTCATCTTCGCAATCACC	AAATCGATGTTGTCAGTGCAGCCC
WNT2	CGGGTCCTCCTCCGAAGTAG	TGGATCACAGGAGCAGGACTTT
WNT2B	GCCCCAGTGATCTGTGACAA	CACTCTCGGATCCATTCCCC
WNT3	CTGGTGGGAAGGACAAGACC	AATGGGAGTCGACGGACAAG
WNT3A	CCCTTCCAGTCTGGTGTA	CTTGAAGAAGGGGTGCAGAG
WNT4	CCAGGTTGGCCACGCGCTAA	AGCACGCCACTGCGGATGTC
WNT5A	TTCTTCTAATGGCTTTGGCCACG	ACTGGTACTGGCATTCTTGATGC
WNT5B	TAAGTCGGGGCCGAAACTTCTC	CCGGGGAGACGCGTTG
WNT6	GATTTCTTCTCCAGCGAGC	TGAGAGCTCTACCGCAGTCT
WNT7A	TCAAGGACAAATACAACGAGGCCG	TGGGTCTCTTTCACAGTAATTGGG
WNT7B	TGAGGCGGGCAGAAAGG	CCTGACACACCGTGACACTTACA
WNT8A	GCCTATCTGACTACACCGC	AGGACAATTCACCGTTCCC
WNT8B	TGACCGGTCCAAGGCTTAC	CAACGGTCCCAAGCAAAGT
WNT9A	GCAGCAAGTTTGTCAAGGAGTTCC	GCAGGAGCCAGACACACCATG
WNT9B	CTAGTGGCGCGAGGAGATG	GCCTGGACAGCTTCAAGTAGG
WNT10A	TTGACATTCTCCGCTCACC	TAGTTTTCTTCCCCGGTGCC
WNT10B	ATGCGGATCCACAACAACAG	TGACGTTCCATGGCATTG
WNT11	GCAGTGAACAAGACTTCCA	GTGGGGCATATGGTCTCACT
WNT16	AGTAGCGGCACCAAGGAGAC	GAAACTTTCTGCTGAACCACATGC
DKK1	TGTTGTGCAAGACACTTCTGGTCC	TGTGGAGCCTAGAAGAATTGCTGG
DKK2	CCCCTGGCATTCCCATCTT	GCCTGCCCCAGGCTTTT
DKK3	GCTTGCACTCAGCTTTGTT	CGCAGTTTGTGCTGAGTGTG
YAP	AGGAGAGACTGCGTTGAAA	GAGGGATGCTGTAGCTGCTC
LRP5	AGTGGAGCACGTGATTGAGTTGG	TTGTCAAGGTCTCTCCACAAGC
LRP6	TACATGCTTTCAGCCAACAGAGGC	TTGCAAGTCTTCCATTCTCCAGC
FZD6	CCGAGCAGTTGCCCCAG	GGGACCTTCCATCTTGCCA

ChiP primers

SEQUENCE	FORWARD PRIMER 5' TO 3'	REVERSE PRIMER 5' TO 3'
IS7	CTGAAGCCAAGAGGCAGATT	CGCACATCCTTTCAGGTGCT
WNT3A ENH	ACCACTTTAAGTACCGGCGA	GATATGCTGTTGTTTCGCCTT
WNT10B ENH 1	GGACAAGCGACAAGGGTCTG	GGAAAGCACCGATCTGGGTTA
WNT10B PROM	TCTTGGGGCTTAAACCGTGG	CACCCGTGAGTTAGGTCGAG
FZD6 ENH	GCAGCAATAAAGCTTGCAGGA	TGCTCTGGGTCTTGTAGATG
DKK1 ENH 1	GTCTGATGATCGGAGGCAGAC	ACAGGCCTCGAGTAACTGTA
DKK1 PROM 1	CACAGCACCCCTCTTACCTG	CGGGAGTTCTCTATGAGGGC
YAP ENH 1	GTCTTCTCATGACGCTCT	TTGCTGACCTCATGAACCC
YAP ENH 2	GGATCAGGATCCACAGCAGG	GATTCACCTACCTTCCCACC