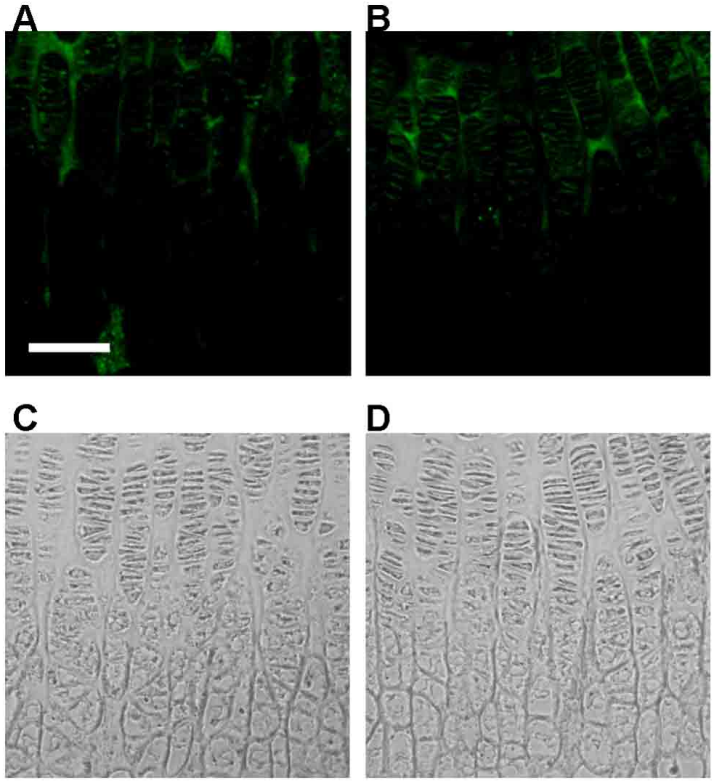

Supplemental Figure 1

Supplemental Figure 1. Growth plate development in chondrocyte-specific VDR null mice. (A-D) Immunohistochemical staining for collagen 2 (A, B) and phase contrast microscopy (C, D) of the growth plate of 15-day-old $Cre^{-}VDR^{fl/fl}$ (A, C) and $Cre^{+}VDR^{fl/fl}$ (B, D) mice. Scale bar: 100μm.

Supplemental Table 1. Oligonucleotide sequences used in qRT-PCR

Gene		Sequence
Calcitonin receptor	F	5'-AACCGAACCTGGTCCAACTATACT-3'
	R	5'-TCAGCATGGAAGCAACCAAA-3'
	P	5'-FAM-AAATGCGTACGTTCTTTATTACCTGGCTCTTGTG-TAMRA-3'
Collagen 2a1	F	5'-AGAACATCACCTACCACTGTAAGAACA-3'
	R	5'-TGACGGTCTTGCCCCACTT-3'
	P	5'-FAM-CCTTGCTCATCCAGGGCTCCAATG-TAMRA-3'
Collagen 10	F	5'-CCTTTCTGCTGCTAATGTTATTGA-3'
	R	5'-ATGCCTTGTTCTCCTCTTACTGGA-3'
	P	5'- FAM-TAGCCCCAAGACACAATACTTCATCCCATACG-TAMRA-3'
CYP24	F	5'-TGCGGATTTCCTTTGTGATATTTAT-3'
	R	5'-ATTGTAGAGAATCCACATCAAGCTGTT-3'
	P	5'-FAM-TCTTTCCAAGAAAGAACTGTACGCTGCTGTCAC-TAMRA-3'
CYP27B1	F	5'-ATGTTTGCCTTTGCCCAGAG-3'
	R	5'-GACGGCATATCCTCCTCAGG-3'
	P	5'-FAM-CCCTGGTTCCTCATCGCAGCTTCA-TAMRA-3'
FGF23	F	5'-AGCCAGGACCAGCTATCACCTA-3'
	R	5'-CTTCGAGTCATGGCTCCTGTTAT-3'
	P	5'-TGGCACCCCCCATCAGACCATCTAC-3'
HPRT	F	5'-TTATCAGACTGAAGAGCTACTGTAATGATC-3'
	R	5'-TTACCAGTGTCAATTATATCTTCAACAATC-3'
	P	5'-FAM-TGAGAGATCATCTCCACCAATAACTTTTATGTCCC-TAMRA-3'
OPG	F	5'-GAAGGGCGTTACCTGGAGATC-3'
	R	5'-CTGAATTAGCAGGAGGCCAAAT-3'
	P	5'- FAM-TCACCTGAGAAGAACCCATCTGGACATTTT-TAMRA-3'
Osteocalcin	F	5'-GGCCCTGAGTCTGACAAAGC-3'
	R	5'-GCTCGTCACAAGCAGGGTTAA-3'
	P	5'- FAM-ACAGACTCCGGCGCTACCTTGGAGC-TAMRA-3'
RANKL	F	5'-CATTTGCACACCTCACCATCA-3'

	R	5'-TTGCTTAACGTCATGTTAGAGATCTTG-3'
	P	5'-FAM-TCGGGTTCCCATAAAGTCACTCTGTCCTCTT-TAMRA-3'
Runx2	F	5'-TACCAGCCACCGAGACCAA-3'
	R	5'- AGAGGCTGTTTGACGCCATAG-3'
	P	5'-FAM- CTTGTGCCCTCTGTTGTAAATACTGCTTGCA-TAMRA-3'
VEGF	F	5'-AGTCCCATGAAGTGATCAAGTTCA-3'
	R	5'-ATCCGCATGATCTGCATGG-3'
	P	5'-FAM-TGCCCACGTCAGAGAGCAACATCAC-TAMRA-3'
VDR	F	5'-GGATCTGTGGAGTGTGTGGAGACC-3'
	R	5'- CTTCATCATGCCAATGTCCACGCAG-3'
	P	5'-FAM- CTGTTCACCTGCCCCTTCAATGGAGAT-TAMRA-3'

F: Forward primer; R: Reverse primer; P: Probe.