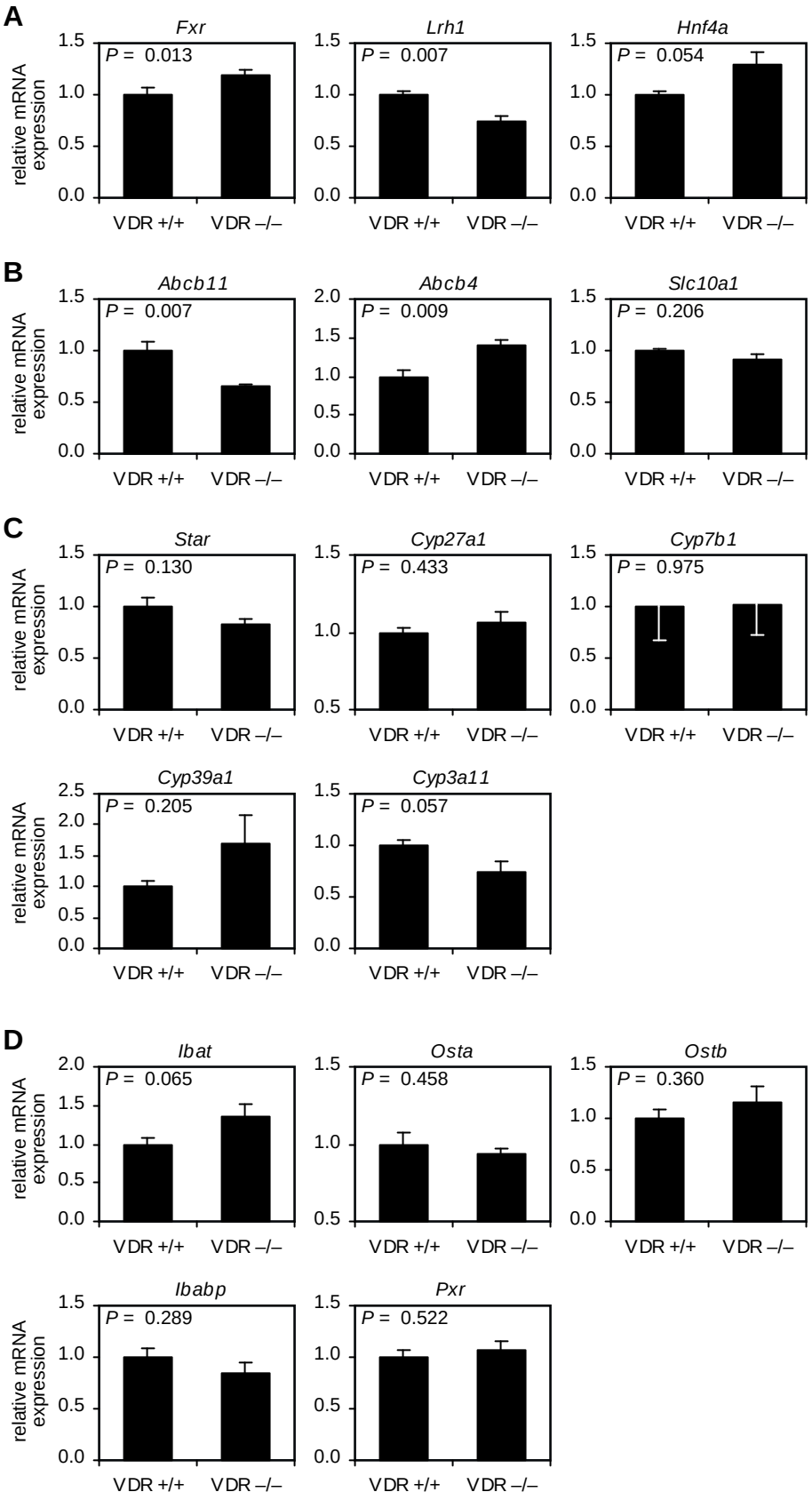
SUPPLEMENTAL DATA

SUPPLEMENTAL FIG. 1. **Bile acid metabolism is dysregulated in VDR–/– mice.** *A*-*C*, Hepatic mRNA expression of nuclear receptors that regulate *Cyp7a1* transcription (*A*), bile acid transporters (*B*), and genes involved in the alternative bile acid synthesis pathway (*C*). VDR expression in the liver was undetectable in either genotype (data not shown). *D*, Intestinal mRNA expression of bile acid transporters and the xenobiotic receptor, *Pxr*. See Figure 1 for description of experiment and data analysis.

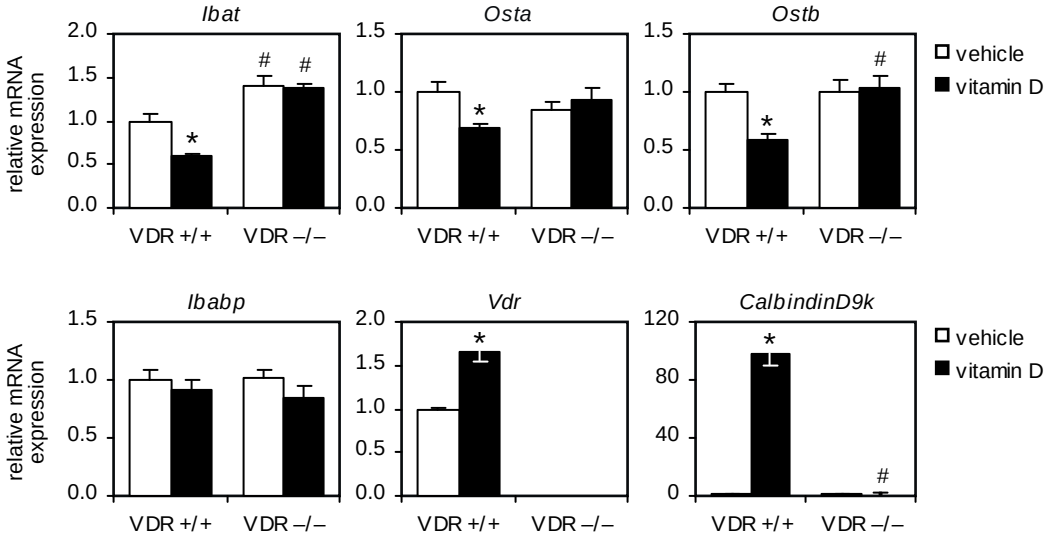
SUPPLEMENTAL FIG. 2. **VDR induces *Fgf15* to suppress *Cyp7a1*.** Intestinal mRNA expression of bile acid transporters and additional genes described in the text. See Figure 2A for description of experiment and data analysis.

SUPPLEMENTAL TABLE 1. **QPCR primer sequences.**

SUPPLEMENTAL TABLE 2. **QPCR primer sequences for ChIP analysis of the *Fgf15* gene locus.**



Supplemental Figure 1
Schmidt et al.



Supplemental Figure 2
Schmidt et al.

Supplemental Table 1
QPCR primer sequences

Abcb11 (Bsep)	NM_021022	aagctacatctgccttagacacagaa	caatacaggtccgaccctctct
Abcb4 (Mdr2)	NM_008830	cttgaggcagcgagaaatg	ggttgctgatgctgcctagt
Cyp27a1	NM_024264	gcctcacctatgggatcttca	tcaaagcctgacgcagatg
Cyp39a1	NM_018887	tggccaatgctcctcctat	tgtggatatcgggatgagaca
Cyp3a11	NM_007818	aaactgcaggatgagatcgatga	tccaggtattccatctccatcac
Cyp7a1	NM_007824	agcaactaaacaacctgccagtacta	gtccggatattcaaggatgca
Cyp7b1	NM_007825	tagccctctttcctccactcata	gaaccgatcgaacctaaattcct
Cyp8b1	NM_010012	gccttcaagtatgatcggttcct	gatcttcttgcccgacttgtaga
Fabp-6 (Ibabp)	NM_008375	ttgagagtgagaagaattacgatgagt	tttcaatcacgtctcctggaa
Fgf15	NM_008003	acgggctgattcgctactc	tgtagcctaaacagtccatttcct
Hnf4a	NM_008261	accaagaggtccatggtgttt	gtgccgagggacgatgtag
Il1b (Il-1β)	NM_008361	tgacggaccccaaaagatg	tggacagcccaggtcaaag
Nr0b2 (Shp)	NM_011850	cgatcctcttcaacccagatg	agggctccaagacttcacaca
Nr1h4 (Fxr)	NM_009108	tccggacattcaaccatcac	tcactgcacatcccagatctc
Nr1i2 (Pxr)	NM_010936	caaggccaatggctacca	cgggtgatctcgcaggtt
Nr5a2 (Lrh-1)	NM_030676	tgggaaggaagggacaatctt	cgagactcaggaggttgttgaa
Osta	NM_145932	aacagaacatgggatccaagttt	cagggcggtcaggatga
Ostb	NM_178933	gacaagcatgttcctcctgaga	tgtcttgtggctgcttctttc
S100g (CalbindinD9k)	NM_009789	gcctcctgaaggcttcaagt	tccatcgccattcttatcca
Slc10a1 (Ntcp)	NM_011387	gaagtccaaaaggccacactatgt	acagccacagagagggagaaag
Slc10a2 (Asbt, Ibat)	NM_011388	tgactcgggaacgattgtg	ggaataacaagagcaaccagagaa
Star	NM_011485	cggagcagagtggtgtcatc	tgagtttagtcttggagggacttc
Tnf (Tnf-α)	NM_013693	ctgaggtcaatctgcccaagtac	cttcacagagcaatgactccaaag
U36b4	NM_007475	cgtcctcgttggagtgaca	cggtgcgtcagggattg
Vdr	NM_008361	ggcttccacttcaacgctatg	atgctccgcctgaagaaac

Supplemental Table 2

QPCR primer sequences for ChIP analysis of the *Fgf15* gene locus

Amplicon	Forward Primer	Reverse Primer
-1569 to -1498	gtcccattttctaccttgttcaga	gggccgccataagaacatt
-998 to -927	accacggagctaggccagta	ccccccaactcctgtatgtg
-704 to -619	tcaagggcctgatcatcga	gacttttgagaagggtggactga
-182 to -71	gctcctcctctgccagatct	tcagagcatttctcctcctaattg
+430 to +510	tcccttaggacccagaagca	cccagctccagtctggaagt
+921 to + 991	ggctaactgctgagtcccatt	aagccaggagaggaggcttt
+1515 to +1570	cccctgcctggctgaa	agatacaggcaggagatttgctt
+1932 to + 2002	agagccttatctgccaactgtct	caggctgtgtctgcctaagc
+2381 to +2451	agcagggttttggaaagttga	tgtgcaaatcttcctggttttt
+2900 to +2959	tgggatgagccaacaatctc	aggcaagaaatccagagttgaag