Available phosphorus levels modulate gene expression related to intestinal calcium and phosphorus absorption and bone parameters differently in gilts and barrows

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SUPPLEMENTARY MATERIAL

Supplementary Table S1. Oligonucleotide primers used for quantitative PCR

Genes[1)]	Accession number[2)]		Primer sequence (5' to 3')	Amplification efficiencies	Amplicon size (bp)	Reference
ACTG	XM_003357928.1	F:	GGGCATCCTGACCCTCAAG	96.1	89	[1]
		R:	TGTAGAAGGTGTGATGCCAGATCT			
GAPDH	NM_001206359.1	F:	GGCGTGAACCATGAGAAGTATG	98.7	60	[1]
		R:	GGTGCAGGAGGCATTGCT			
B2M	NM_213978.1	F:	CCCCCGAAGGTTCAGGTT	100.3	66	[1]
		R:	GCAGTTCAGGTAATTTGGCTTTC			
HPRT	NM_001032376.2	F:	AGAAAAGTAAGCAGTCAGTTTCATATCAGT	82.8	131	[1]
		R:	ATCTGAACAAGAGAGAAAATACAGTCAATAG			
OAZ1	NM_001122994.1	F:	TCGGCTGAATGTAACAGAGGAA	94.7	70	[1]
		R:	GAGCCTGGATTGGACGTTTAAA			
VDR	NM_001097414.1	F:	TGGTTGGAAGTGTCTGGGAG	99.8	117	[2]
		R:	GGGGTCAGGTAAGGAAGTGC			
CYP24A1	NM_214075.2	F:	TTGGGTTCGTTCGACTCCG	97.2	103	[2]
		R:	TCCACGGTTTGATCTCCAGC			

		R:	ATAACTGTTTAGCCAGCAGCAC			
TRPV5	XM_021078896.1,	F:	TCCCTGTAACTTGCCAGTGC	94.2	103	[2]
	XR_002340352.1	R:	TGCTGATCCCAGTCTTGCTG			
TRPV6	FJ268731.2	F:	GAATGCGGTTGCATTGAGCA	97.6	112	[2]
		R:	TTACACCCTTTCCACAGCCG			
CALB1	NM_001130226.1	F:	ATTTCGACGCTGACGGAAGT	91.7	224	[2]
		R:	TTGCTGGCATCGGAATAGCA			
PMCA1b	X53456.1,	F:	GAAAATGGTTCCTGCTGCC	92.3	275	[2]
	XR_002343820.1, XM_021091182.1,	R:	GCAACCGAGTTGTTTGCCAT			
	NM_214352.3	R:	GCAACCGAGTTGTTTGCCAT			
FGF23	XM_001926525.4	F:	CGCAGGCTTCGTGGTCATAA	99.0	146	[2]
		R:	GGTACACGTCGTAGCCGTTC			
SLC34A1	NM_001044623.1	F:	TCAACTCTCTGCTCAAGGGC	94.0	183	[2]
		R:	CACCTAGGCCAATGAGTGGG			
SLC34A2	NM_001256772.1	F:	CGTGTTCTCGTCGACTCTGA	90.0	280	[2]
		R:	CCAGCGGTACTTGGATGAGAT			

SLC34A3	XM_021081180.1	F:	CTTGATGGGGGCTCCAGAC	93.0	98	Newly designed
		R:	CCACCCTCAGTGATGCAGAG			
CLDN4	NM 001161637.1	F:	CAACTGCGTGGATGATGAGA	90.3	140	[3]
		R:	CCAGGGGATTGTAGAAGTCG			
ZO1	XM_003353439.2	F:	AAGCCCTAAGTTCAATCACAATCT	100.6	130	[3]
		R:	ATCAAACTCAGGAGGCGGC			
		R:	GAGCCTGGATTGGACGTTTAAA			
CDH1	NM_001163060.1	F:	TACCTGAACGAGTGGGGCAA	94.9	118	[3]
		R:	CCCATCACATGAGCGTAGGG			

F, forward primer; R, reverse primer.

[1)] *ACTG*, β-actin; *GAPDH*, glyceraldehyde-3-phosphate-dehydrogenase; *B2M*, β2-microglobulin; *HPRT*, hypoxanthin-guanine phosphoribosyl transferase; *OAZ1*, ornithine decarboxylase antizyme; *VDR*, vitamin D receptor; *CYP24A1*, cytochrome P450, family 24, subfamily A, polypeptide 1; *TRPV5*, transient receptor potential vanilloid 5; *TRPV6*, transient receptor potential vanilloid 6; *CALB1*, calbindin; *PMCA1b*, plasma membrane Ca^{2+} adenosintriphosphatase 1b; *FGF23*, fibroblast growth factor 23; *SLC34A1*, Na+-Pi cotransporter 1; *SLC34A2*, Na+-Pi cotransporter 2; *SLC34A3*, Na+-Pi cotransporter 3; *CLDN4*, claudin-4; *OCLN*, occludin; *ZO1*, zonula occludens-1; *CDH1*, cadherin-1.

[2)] National Center for Biotechnology Information (NCBI) (http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene).

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