

Table S2. | Forward and reverse primer sequence for quantitative real-time polymerase chain reaction amplification of mRNA for bovine sperm samples.

Gene	Forward Primer	Reverse primer	Product length	Accession number
ACR	CCCTGTGGGACACGGTTC	TCGGCTTCACTGGCTTATTGC	181	NM_173886.2
ALB	GCTGTGGAGGGTCCAAAAC	TCAGGTAGGCTGAGATGCCT	87	NM_180992.2
AR	ACCTGTGTGCCAGCAGAAAT	TGGGCTGACACTCATAGCCT	237	NM_001244127.1
CALM1	CAGAGCCGTTAGCGCAGTTG	TGCCATCACCGTCTTTGTCA	235	NM_001242572.1
CALM3	CCCCTCAGGTCGATCAAGTG	CCGAAAACGTCCACAGCTTC	168	NM_001046249.2
PAEP	CACATCTAGGTGAGCCCCTG	CAGGAGGGGTGAATGTGGTC	131	NM_173929.3
PGR	TACCTTAGGCCGGATTCAGA	ACTTTCTAAGGCGACATGCTGG	251	NM_001205356.1
SPAM1	ACGGGCAGAGATGACAAGATGA	CATTCCAGGCCAGAGGAAAG	362	NM_001008413.3
ZP3	GTCGATGCTGTAGCAAGGG	ACGCCACGGTCATTCATCTT	164	NM_173974.3
ZP4	TCCTGTGAATCTCCAGATGT	GTGAAGGAGCACATGGCAGT	83	NM_173975.2
AKR1B1	CAAGCAGTCATGGCCAACCA	CATTCTGGTACACGTGGGCA	163	NM_001012519.1
GAPDH	GTGAAGGTCGGAGTGAACGG	ATTGATGGCGACGATGTCCA	93	NM_001034034.2

ACR, Acrosin; ALB, Albumin; AR, Androgen Receptor; CALM, Calmodulin; PAEP, Progesterone Associated Endometrial Protein; PGR, Progesterone Receptor; SPAM, Sperm Adhesion Molecule; ZP, Zona Pellucida Glycoprotein; GAPDH, Glyceraldehyde-3-phosphate dehydrogenase.