

Table S1 Gene function related to reproduction of the included genes

Gene name	Gene function related to reproduction	Ref.
CXCL1	oocyte nuclear maturation	[22]
CXCL3	oocyte nuclear maturation	[22]
TNF	regulation of apoptosis in oocytes and granulosa cells	[23]
PTGES	ovulation, fertilization and embryo development	[24,25]
NDUFB7	mitochondrial function in oocytes and embryos	[26]
NDUFA4L2	electron transport chain and AMH signal transduction	[27]
SLC25A27	oocyte maturation and embryo development	[28]
DAPK3	androgen receptor-mediated transcription	[29]
BCL6B	embryogenesis	[30]
PCK1	glucose homeostasis in cumulus cells	[31]
LDHC	glucose metabolism in oocytes	[32]

Table S2 Primers used for real time polymerase chain reaction analysis

Gene name	Primers	Genbank accession no.
GAPDH	Forward primer: CGACCACTTTGTCAAGCTCA	NM_002046
	Reverse primer: AGGGGAGATTCAGTGTGGTG	
CXCL1	Forward primer: ATTCACCCCAAGAACATCCA	NM_001511
	Reverse primer: CACCAGTGAGCTTCCTCCTC	
CXCL3	Forward primer: GCAGGGAATTCACCTCAAGA	NM_002090
	Reverse primer: ACCCTGCAGGAAGTGTCAAT	
TNF	Forward primer: CCTGTGAGGAGGACGAACAT	NM_000594
	Reverse primer: AGGCCCCAGTTTGAATTCTT	
PTGES	Forward primer: CATGTGAGTCCCTGTGATGG	NM_004878
	Reverse primer: CTGCAGCAAAGACATCCAAA	
NDUFB7	Forward primer: CTGACTGAGGGGTCAGTGGT	NM_004146
	Reverse primer: CCATCATCTCCTGCTGTGTG	
NDUFA4L2	Forward primer: TCGGAGAGCAGAAACCACTT	NM_020142
	Reverse primer: TTTCCCAGTCTGGTCCTCTG	
SLC25A27	Forward primer: GCGAGAAGGAGTGCGTTATC	NM_004277
	Reverse primer: GCTTCTCCTTGCATTTGGAG	
DAPK3	Forward primer: TCGCACACTTTGACCTGAAG	NM_001348
	Reverse primer: CAGCGGCTCATAGTTCACAA	
BCL6B	Forward primer: GCCCCTTCTTCCTTTAGTGG	NM_181844
	Reverse primer: AATGGAACTCAGCCCCTTTT	
PCK1	Forward primer: GGGAGAAGGAGGTGGAAGAC	NM_002591
	Reverse primer: GAACACTTGCCCTCTCTTGC	
LDHC	Forward primer: TCTGTA CTGATTGCGCCAAG	NM_002301
	Reverse primer: GGCAAGTTCATCAGCCAAAT	