



Table S1. Primers, their accession number, sequence and size used for qRT-PCR.

Gene Name		Sequence	Product Size	Accession No
<i>PCK1</i>	F	CTTGGAAGAAGTGCTTTGC	226	NM_174737.2
	R	TCATCCAGGCGATATCATCA		
<i>ATGL</i>	F	CTGCTGACCACACTCTCCAA	192	FJ798978.1
	R	GGCGGTATCATCAGGTA		
<i>SLC2A1</i>	F	CCCCAGAAGGTGATTGAAGA	168	NM_174602.2
	R	GCCGAAACGGTTAACAAAAA		
<i>PLIN2</i>	F	ACTGGCTGGTAGGTCCTTT	196	NM_173980.2
	R	CTGCCTGCCTACTTCAGACC		
<i>PPARα</i>	F	AGCCATATTTGCGATGCTGTCT	322	XM_024991367.1
	R	AGAGGAAGACGTCGTCAGGATG		
<i>PPARγ</i>	F	TAAAGCGTCAGGGTTCCACTAT	333	NM_181024.2
	R	CGGGAAGGACTTTATGTACGAG		
<i>PPARδ</i>	F	GACCAGAGCACTCACTTCCTTC	315	XM_024983411.1
	R	TCTTCAGGTAGGCGCTGTAGAT		
<i>LMF 1</i>	F	AACCCTGTGGCCTACTTCT	164	NM_001075190.2
	R	ATGAGGACCACCTGGAACAG		
<i>LMF 2</i>	F	GCCCTCACCTACCACTACGA	190	NM_001037455.1
	R	GCAGCAAGACCTGGGAGTAG		
<i>LPL</i>	F	ACTTTGTACAGGCACAACCG	130	NM_001075120.1
	R	ACGATTATTGCTCAGCATGG		

Table S2. Cleavage and development percentages of bovine embryos, Control, 2-BP and GW501516.

Groups	No. of Fertilized Zygotes	No. of Cleavage Embryo (% \pm SEM)	No. of Blastocysts (% \pm SEM)	No. of Hatched Blastocysts (% \pm SEM)
Ctrl	372	280 (75.1 \pm 3.5) ^{ab}	119 (32.4 \pm 1.9) ^a	27 (24.1 \pm 1.7) ^a
2-BP	372	260 (69.5 \pm 3.2) ^a	89 (23.6 \pm 0.9) ^a	20 (21.5 \pm 4.1) ^a
GW501516	361	298 (82.6 \pm 1.1) ^b	141 (39.4 \pm 2.8) ^b	42 (47.3 \pm 4.2) ^b

^{a,b} Values with different superscripts in the same column are significantly different ($p < 0.05$). This experiment was completed in eight replicates.