Table S1. Effect of the 0.8 mM 4-Cgh on cumulus expansion and oocyte maturation. COC diameter and oocyte maturation rate after 16 hours of in vitro oocyte maturation in the control group and the 0.8 mM 4-Cgh treatment.

	COC diameter	MII/total	MII rate (%)
Control	270.2±17	12/13	92.3
4-Cgh (0.8mM)	203.3±19	4/14	28.6

Table S2. Summary of real-time PCR Primers

Gene	Primer	Sequence	Product size (bp)	Accession No.
Ereg	Forward	CTGGGGTTGCTTTGGTTC	67	NM_007950.2
	Reverse	ATACACACACACAGGGACA		
Egfr	Forward	ACAACCCCACCACCTATC	85	NM_007912-1
	Reverse	TTTCGGGGGCACTTCTTC		
Ptgs2	Forward	GGCGAAGTGGGTTTTAAGAT	123	NM_011198.4
	Reverse	GGTGGCTGTTTTGGTAGG		
Ptger2	Forward	AAGTCCTCTCTCCTCTCCT	106	NM_008964
	Reverse	ATCCTCAACCTCATTCGCA		
Tnfaip6	Forward	GTTTTGTTTTTTTGAGACGGGG	99	NM_009398
	Reverse	GGCAGGTGGATTTCTGAGTT		
Has2	Forward	CATACACACACACACACACC	134	NM_008216
	Reverse	AAAAAGAAACCAACCCCCAT		
Ptx3	Forward	CTAGTGTTGGTGGTGGGT	111	NM_008987
	Reverse	CATGCTCCCCTGCTCTGAA		
Igfbp4	Forward	CCTCTTCATCATCCCCATTCC	106	NM_010517
	Reverse	ATCCACACACCAGCACTT		
Rpl13a	Forward	CTGCTGCTCTCAAGGTTGT	129	NM_009438.5
	Reverse	CCTTTTCCTTCCGTTTCTCCTC		