

## Supplementary Material

### **Peri-ovulatory endocrine regulation of the prostanoid pathways in the bovine uterus at early dioestrus**

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**Table S1. Validation of qPCR**

Aldo-ceto reductase family1, member B1 (AKR1B1); Aldo-ceto reductase family1, member C3 (AKR1C3); Aldo-ceto reductase family1, member C4 (AKR1C4); Carbonyl reductase 1 (CBR1); Hydroxyprostaglandin dehydrogenase (HPGD); Peptidylprolyl isomerase A (cyclophilin A; PPIA); Phospholipase A2, group X, transcript variant (PLA2G10); Prostaglandin D2 synthase (PTGDS); Prostaglandin D2 receptor (PTGDR); Prostaglandin E synthase (PTGES); Prostaglandin E synthase 2 (PTGES2); Prostaglandin E synthase 3 (PTGES3); Prostaglandin E receptor 2 (PTGER2); Prostaglandin E receptor 4 (PTGER4); Prostaglandin endoperoxide synthase1 (PTGS1); Prostaglandin endoperoxide synthase2 (PTGS2); Prostaglandin I2 synthase (PTGIS); Solute carrier organic anion transporter family, member 2A1 (SLCO2A1); Thromboxane A synthase 1 (TBXAS1); Thromboxane A2 receptor (TBXA2R)

Target gene	Primer concentration (nM)	Standard curve (Slope)	Standard curve (R <sup>2</sup> )	Standard curve (Efficiency %)	LinReg efficiency (%)	Ct
<i>AKR1B1</i>	300	-3.5	1.0	93.9	1.9	23.1
<i>AKR1C3</i>	300	-3.3	0.9	102.2	1.9	30.0
<i>AKR1C4</i>	300	-3.5	1.0	92.6	1.9	29.2
<i>CBR1</i>	300	-3.4	1.0	97.1	1.9	28.7
<i>HPGD</i>	300	-3.5	1.0	92.5	1.9	30.2
<i>PPIA</i>	150	-3.4	1.0	97.8	1.9	23.9
<i>PLA2G10</i>	150	-3.2	1.0	105.8	1.9	29.4
<i>PTGDS</i>	300	-3.4	1.0	97.9	1.9	25.1
<i>PTGDR</i>	300	-3.1	1.0	100.6	1.9	33.0
<i>PTGES</i>	300	-3.3	1.0	99.6	1.9	29.9
<i>PTGES2</i>	150	-3.4	1.0	95.3	1.9	28.8
<i>PTGES3</i>	300	-3.6	1.0	91.2	1.9	30.5
<i>PTGER2</i>	300	-3.2	1.0	103.3	1.9	31.8
<i>PTGER4</i>	300	-3.2	1.0	103.6	1.9	29.0
<i>PTGS1</i>	150	-3.61	0.9	88.9	1.9	32.2
<i>PTGS2</i>	300	-3.3	1.0	100.8	1.8	33.0
<i>PTGIS</i>	150	-3.3	1.0	99.4	1.9	27.1
<i>SLCO2A1</i>	300	-3.3	1.0	100.9	2.0	30.6
<i>TBXA2R</i>	300	-3.5	1.0	94.5	1.9	29.0
<i>TBXAS1</i>	600	-3.3	1.0	1000	1.9	32.6
<i>TBXA2R</i>	300	-3.5	1.0	94.5	1.9	29.0