

## Supplementary Table 1

Primers designed from human sequences for qPCR and semi-quantitative PCR.

<i>Gene</i>	<i>NCBI reference sequences</i>	<i>Primers set</i>	<i>Product size</i>
ACTB	NM_001101	F : 5'-CAACCGCGAGAAGATGACCCAG-3' R : 5'-ATGGGCACAGTGTGGGTGAC-3'	152 bp
SDC1	NM_001006946	F : 5'-GAAACCTCGGGGAGAATAC-3' R : 5'-TACAGCATGAAACCCACCAG -3'	188 bp
SDC4	NM_002999	F : 5'-CGATCCGAGAGACTGAGGTC-3' R : 5'-CACCAAGGGATGGACAACCTT-3'	191 bp
CYP19A1	NM_000103	*F : 5'-AAGGAAATCCAGACTGTTATTGG-3' *R : 5'-GTATCTTCTGTATGCTCTCAACACAC -3' F : 5'-TGCAAAGCACCTAATGTTG-3' R : 5'-CATGACCAAGTCCACGACAG-3'	424 bp 157 bp
FSHR	NM_000145	*F : 5'-CAGAACCTTCCCAACCTTCA-3' *R : 5'-CTCAGAGATTTGCCGTCTCC -3' F : 5'-CTCTGCCAAGAGCAAGGT-3' R : 5'-TTGGGAAGGTTGGAGAACAC -3	513 bp 197 bp
CYP11A1	NM_000781	F : 5'-AGACCTGGAAGGACCATGGTG-3' R : 5'-TCCTCGAAGGACATCTTGCT-3'	163 bp
STAR	NM_000349	F : 5'-ACGTGGATTAACCAGGTTCCG-3' R : 5'-CAGCCCTCTTGTTGCTAAG -3'	149 bp
HSD3B2	NM_000198	F : 5'-ATCCACACCGCCTGTATCAT-3' R : 5'-TTTCCAGAGGCTCTTCTTCG-3'	208 bp
NR5A1	NM_004959	F : 5'-GAGAGCCAGAGCTGCAAGAT-3' R : 5'-CTTGTACATCGGCCCAAACCT-3'	150 bp
ESR1	NM_000125	F : 5'-AGACATGAGAGCTGCCAACC-3' R : 5'-GCCAGGCACATTCTAGAAGG-3'	299 bp
ESR2	NM_001437	F : 5'-TGGAGTCTGGTCGTGTGAAG-3' R : 5'-CTTACCATTCCCACCTTCGT-3'	166 bp
PGR	NM_001202474	F : 5'-TCGAGCTCACAGCGTTTCTA-3' R : 5'-CACCATCCCTGCCAATATCT-3'	183 bp
LHR	NM_000233	F : 5'-CATTCAATGGGACGACACTG-3' R : 5'-GCCTCCAGGAGATTGACAAA-3'	234 bp
CCND1	NM_053056	F : 5'-CGTGGCCTCTAAGATGAAGG-3' R : 5'-CTGGCATTCTTGAGAGGAAG-3'	185 bp
CCND3	NM_001760	F : 5'-AGACCTTTTTTGCCCTCTGT-3' R : 5'-AGCTTCGATCTGCTCCTGAC-3'	200 bp
CCNE1	NM_001238	F : 5'-GAAGAGGAAGGCAAACGTGA -3' R : 5' TGCACGTTGAGTTTGGGTAA-3'	191 bp
CDK2	NM_001798	F : 5'-CATTCTCTTCCCCTCATCA-3' R : 5'-CAGGCACTCCAAAAGCTCTG-3'	173 bp
CDK4	NM_000075	F : 5'-GGGCAAATCTTTGACCTGA-3' R : 5'-CTGGCATTCTTGAGAGGAAG-3'	191 bp
CDK6	NM_001259	F : 5'-CCAGATGGCTCTAACCTCAGT-3' R : 5'-AACTTCCACGAAAAAGAGGCTT-3'	152 bp
CDKN2C	NM_001262	F : 5'-ACGTCAATGCACAAAATGGA-3' R : 5'-TCAGCTTGAACTCCAGCAA-3'	196 bp
CDKN1A	NM_000389	F : 5'-CAGCAGAGGAAGACCATGTG-3' R : 5'-GGCGTTTGGAGTGGTAGAAA-3'	153 bp
CDKN1B	NM_004064	F : 5'-AGATGTCAAACGTGCGAGTG-3' R : 5'-GCCCTCTAGGGGTTTGTGAT-3'	218 bp

\* Primer used for semi-quantitative PCR only. F : Forward; R : Reverse, bp : base pair

PCR conditions used were: denaturation at 94 °C for 1 min, annealing at 55 °C (Actin) or 60°C for 45 sec, and extension at 72 °C for 1 min for 30-33 cycles (22 cycles for  $\beta$ -actin). Thermocycling conditions were set as an initial polymerase activation step for 3 min at 95°C, followed by 40 cycles of 30 sec at 95°C for template denaturation, 1 min 60°C for annealing and extension and fluorescence measurement.