

Supplemental Table: The sequences of primers used for the real-time PCR

| Gene                                  |      | primer sequence (5'-3') | product size (bp) | annealing temperature (C) |
|---------------------------------------|------|-------------------------|-------------------|---------------------------|
| StAR                                  | For: | GCAAAGCGGTGTCATCAG      | 172               | 55                        |
|                                       | Rev: | GGCGAACTCTATCTGGGTCT    |                   |                           |
| P450 <sub>scc</sub>                   | For: | TATTCGCTTTGCCTTTGAG     | 74                | 66                        |
|                                       | Rev: | CACGATCTCCTCCAACATCC    |                   |                           |
| P450 <sub>17<math>\alpha</math></sub> | For: | CATCCCCACAAGGCTAAC      | 61                | 62                        |
|                                       | Rev: | TGTGTCCTTGGGGACAGTAAA   |                   |                           |
| 3 $\beta$ -HSD                        | For: | AGGCCTGTGTCCAAGCTAGTGT  | 161               | 60                        |
|                                       | Rev: | CTCGGCCATCTTTTGCTGTAT   |                   |                           |
| 17 $\beta$ -HSD-1                     | For: | CTGAATTGGGATGGTCTGC     | 133               | 58                        |
|                                       | Rev: | GGCTACATAGTGAAACCTTGTC  |                   |                           |
| 17 $\beta$ -HSD-3                     | For: | CTGACTTGGACAACACCAT     | 159               | 55                        |
|                                       | Rev: | CTGTCAACAGTGGAACCG-     |                   |                           |
| 17 $\beta$ -HSD-4                     | For: | GACGCCTCAAGGATGTTGG     | 117               | 55                        |
|                                       | Rev: | AGCCGTTCTTCAGGTCAAT-    |                   |                           |
| P450 <sub>arom</sub>                  | For: | ATCGGAAGAATGCACAGG      | 170               | 66                        |
|                                       | Rev: | AGTGTAACCAGGACAACCTT    |                   |                           |
| RXR $\alpha$                          | For: | ACATGCAGATGGACAAGACG    | 82                | 60                        |
|                                       | Rev: | GGGTTTGAGAGCCCCTTAGA    |                   |                           |
| RXR $\beta$                           | For: | GTTCTTCCATGGGGTCTCCT    | 96                | 60                        |
|                                       | Rev: | GGAGCGACACTGTGGAGTTAAT  |                   |                           |
| RXR $\gamma$                          | For: | TTGGAATGGCTCAAACCAC     | 77                | 60                        |
|                                       | Rev: | AGGGCTGGGCACTATCTCTT    |                   |                           |
| RAR $\alpha$                          | For: | TTGGAATGGCTCAAACCAC     | 67                | 60                        |
|                                       | Rev: | AGGGCTGGGCACTATCTCTT    |                   |                           |
| RAR $\beta$                           | For: | ATCGATGCCACCTCTCATTC    | 63                | 60                        |
|                                       | Rev: | GGGGTCAAGGGTTCATGTC-    |                   |                           |
| RAR $\gamma$                          | For: | CAGTTTCTACCAGGTCCCTCA   | 93                | 60                        |
|                                       | Rev: | AGGGCTGGGCACTATCTCTT    |                   |                           |
| ER $\alpha$                           | For: | GCACATTCCTTACAAACCTACT  | 129               | 59                        |
|                                       | Rev: | AGTCATACAGGACATGGGTAAA  |                   |                           |
| ER $\beta$                            | For: | CGCTTCGAGGGTACAAGT      | 189               | 59                        |
|                                       | Rev: | ACCAAGGCAGCCCTAAGA      |                   |                           |
| CRBP-2                                | For: | GACGAACACACAAAGGGTCTG   | 73                | 60                        |
|                                       | Rev: | CTTGTCGACACACCTGGTCA    |                   |                           |
| Ad4BP / SF-1                          | For: | GAGGGTTGGCATGACTGT      | 156               | 55                        |
|                                       | Rev: | GCTCGGATGTCTCTGAGCA     |                   |                           |