

S2 Table. List of genes and primers used for qRT-PCR.

| Gene name | Gene Symbol | Primers (5'→3') (F=forward, R=reverse) | Accession Number | Size (bp) |
|--|----------------|--|------------------|-----------|
| Ribosomal protein L32 | <i>RPL32</i> | F : GCCATCAGAATCACCAATCC R : AAATGTGCACACGAGCTGTC | NM_001034783.2 | 73 |
| Peptidylprolyl isomerase A (cyclophilin A) | <i>PPIA</i> | F : CTGGCATCTTGTCCATGGCAA R : CCACAGTCAGCAATGGTGATCTTC | NM_178320.2 | 202 |
| Aldehyde dehydrogenase 1 family, member A1 | <i>ALDH1A1</i> | F : GCGGAAACACAGTGGTTGTC R : GAGAAGAAATGGCTGCCCT | NM_174239.2 | 150 |
| Cyclin D2 | <i>CCND2</i> | F : GGTGGATCTCCTGGCAAAGA R : ACGGTACTGCTGCAGGCTATTC | NM_001076372.1 | 98 |
| Cyclin E1 | <i>CCNE1</i> | F : GCCTCAGTATCCTCAGCAAATC R : GAAAATTCTAAGCACCCGACATC | XM_612960.4 | 84 |
| Cyclin E2 | <i>CCNE2</i> | F : CCTCATTATTCATTGCTTCCAAAC R : TTCACTGCAAGCACCATCAG | NM_174058.2 | 129 |
| Collagen type 1 alpha 1 | <i>COL1A1</i> | F : AAGAAGACATCCCACCAGTCAC R : TAAGTTCGTCGCAGATCACG | NM_001034039.2 | 149 |
| Collagen type 3 alpha 1 | <i>COL3A1</i> | F : AGGACACAGAGGCTTTGATGG R : TTTTCCCCCTTTAATCCAGGAG | NM_001076831.1 | 72 |
| Collagen type 4 alpha 1 | <i>COL4A1</i> | F : TTTCCAGGCGACTCAGGG R : CGTGCCAATAACAGTTCCGG | XM_580317 | 106 |
| Catenin Beta 1 | <i>CTNNB1</i> | F : GAATTGACAAAACCTGCTGAATGATG R : GATGGCGTGTCTCGAAGCTT | NM_001076141 | 102 |
| Cytochrome p450 family 11 subfamily A member 1 | <i>CYP11A1</i> | F : CACTTTCGCCACATCGAGAA R : TGAATGATATAAACTGACTCCAAATTGC | NM_176644.2 | 85 |
| Cytochrome p450 family 19 subfamily A member 1 | <i>CYP19A1</i> | F : GGCTATGTGGACGTGTTGACC R : TGAGAAGGAGAGCTTGCCATG | NM_174305.1 | 142 |
| Deleted in azoospermia-like | <i>DAZL</i> | F : ACGTTTTGCCAGTGAATGC R : TACCACCGTCTGTATGCTTCTG | NM_001081725.1 | 98 |
| Desmoglein 2 | <i>DSG2</i> | F : TGAGACAAAAGCGTGCTTGG R : CAGAGTGTATCTTGCAATCGG | NM_001192172.2 | 93 |
| Estrogen receptor 1 | <i>ESR1</i> | F : GTCCACCTTTTGGAATGTGC R : ATTTTCCCTGGTTCCTGTCC | NM_001001443.1 | 124 |

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| Estrogen receptor 2 | <i>ESR2</i> | F : TCGACTTCGGAAGTGCTATGAG R : ACCGTTCTCTTGGTTTTGC | NM_174051.3 | 136 |
| Fibrillin 1 | <i>FBNI</i> | F : GGGATGGATTTTGTTCGAGGC R : CATCACTGCAGCTACCTCCATT | NM_174053 | 126 |
| Forkhead box L2 | <i>FOXL2</i> | F : AGAATAGCATCCGCCACAAC R : CCCTTCTCGAACATGTCCCTC | NM_001031750.1 | 127 |
| Gap junction alpha-1 protein | <i>GJA1</i> | F : TGAGTGCCGTTTACACTTGC R : ACACCAATGACACGACAAGC | NM_174068.2 | 117 |
| 17beta-hydroxysteroid dehydrogenase | <i>HSD17B1</i> | F : TGTGGTACTCATTACCGGCTGTT R : CAGCGTGGCATACACTTTGAA | NM_001102365.6 | 100 |
| 3 beta-hydroxysteroid dehydrogenase | <i>HSD3B1</i> | F : CCGCGAGAGACCATCATGA R : ACGCTGGCCTGGACACA | NM_174343 | 68 |
| Inhibin, beta A | <i>INHBA</i> | F : ATCATCACGTTTCGCGGAATC R : ACTTTGCTCCGGGTCCTGTT | NH_174363.2 | 144 |
| Keratin 19 | <i>KRT19</i> | F : CGAGGAGGAAATGAGTGTGCT R : ATCTTGGCTAGGTCGATGCC | NM_001015600.4 | 90 |
| Laminin subunit beta 2 | <i>LAMB2</i> | F : CGGGAGTCACACAGAAAGCA R : CCCAGCCCTACTGCATCGT | NM_001046247 | 64 |
| Leucine rich repeat containing G protein-coupled receptor 5 | <i>LGR5</i> | F : TTGGGAGATCTGCTTTTCAACA R : TGTGAGGCGCCATTCAAA | NM_001277226 | 65 |
| Mucin 1 | <i>MUC1</i> | F : TTCCCAGTGCTTACAGTTGC R : TTGGGCTGCTTTGTGTAGTG | NM_174115.2 | 100 |
| Nuclear receptor subfamily 2 | <i>NR2F2</i> | F : ACGGATCTTCCAAGAGCAAG R : TTCCACATGGGCTACATCAG | NM_174402.3 | 130 |
| Nuclear receptor subfamily 5, group A, member 1 | <i>NR5A1</i> | F : CAGACCTTCATCTCCATCGTG R : CTTGCCATGCTGAATCTGAC | NM_174403.2 | 147 |
| Occludin | <i>OCLN</i> | F : TTCGACCAATGCTCTCTCAG R : GCGATGCACATCACGATAAC | NM_001082433.2 | 130 |
| Octamer-binding transcription factor 4 | <i>OCT4</i> | F : AGGCTTTGCAGCTCAGTTTC R : TTGTTGTCAGCTTCCTCCAC | NM_174580.2 | 79 |
| Plakophilin 2 | <i>PKP2</i> | F : AGGAGGTGTGATGGACTGATTG R : TGTCATCTGGCTGGTAATCTGC | NM_001083729.1 | 76 |
| Steroidogenic acute regulatory protein | <i>STAR</i> | F : CAGCAGAAGGGTGTTCATCAGA R : GAGAGGACCTGGTTGATGATG | NM_174189.3 | 152 |

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| Transforming growth factor, beta receptor 1 | <i>TGFBR1</i> | F : CAGAGTGGGAACAAAAAGGTACATG R : CATTGCATAGATGTCAGCACGTT | NM_174621.2 | 100 |
| Transforming growth factor, beta receptor 2 | <i>TGFBR2</i> | F : AACGTAGTAACTCCCTGCACTG R : AAACAAACGTGGGTGTGACG | NM_001159566.1 | 141 |
| Transforming growth factor, beta receptor 3 | <i>TGFBR3</i> | F : TGCACTTTCCTATCCCACAAGCCG R : CCAGATCATTGAGGCATCCAGCG | XM_005197830.1 | 197 |
| DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 | <i>VASA</i> | F : ATGAAGCTGATCGCATGCTG R : TGACGCTGTTCTTTGATGG | NM_001007819.1 | 91 |