

Table S1. Primer sequence used for RT-PCR

| Target gene | Primer | Sequence (5' → 3') | Location |
|---------------|-----------------------|---|-----------------------|
| <i>OCT4</i> * | AF1** | <u>CCGAGCCCTGTGCCGCC</u> | Exon 1A |
| | AF2** | <u>GCTGGAGCCGAACCCCGAGG</u> | Exon 1A |
| | AR1** | <u>CCCCAAAGTGAGCCCCACATCG</u> | Exon 2 |
| | AR2** | <u>CACCTTCCCAAAGAGAAACCCCAAA</u> | Exon 2-3 [‡] |
| | BF1 | GAGCGGCCCTAGAAAAGGCA | Intron 1 |
| | BF2 | ATTGCTGTGGCTGTGTTTTG | Intron 1 |
| | BF3 | AGGCTGGGGCCTCTTTCCAC | Exon 1B |
| | R1 | CCCCAAAGTGAGCCCCACA | Exon 2 |
| | R2 | TCGTTGTTGTACGCTTCCTCCAC | Exon 3 |
| | R3 | CCCCATAGCCTGGGGTACCAA | Exon 5 |
| <i>OCT4A</i> | AF2 | GCTGGAGCCGAACCCCGAGG | Exon 1A |
| | AR2 | CACCTTCCCAAAGAGAAACCCCAAA | Exon 2-3 [‡] |
| <i>OCT4B</i> | OCT4B_F | GCCTTTTAAATGCAGTCCCAGG | Exon 1B |
| | [†] OCT4B_R | TGAACACCTTCCCAAAGAGAAC | Exon 2-3 [‡] |
| <i>OCT4B1</i> | [†] OCT4B1_F | CCTCACCTTGCTTCTTTCCA | Exon 2B |
| | OCT4B1_R | CTCTGCCTTGCATATCTCCTG | Exon 3-4 [‡] |
| <i>ACTB</i> | ACTB_F | GTGGACATCAGGAAGGACCTCTA | Exon4 |
| | ACTB_R | ATGATCTTGATCTTCATGGTGCT | Exon 4-5 [‡] |

* Primer pairs were used for *OCT4A*-specific primer design (AF1, AF2, AR1, and AR2) and *B* and *B1* forms of *OCT4* variant identification

** Bold and underlined sequences on the primer sequences indicate the nucleotides that were different from the *OCT4A* pseudogene (Genbank ID : XR_130606.1)

[†] Indicates primers specifically targeting *B1* and *B*.

[‡] Primers designed to overhang between two marked exons.