

Table S1. Primers used for qPCR.

| Name* | Application | Forward primer | Reverse primer |
|----------|-------------|---------------------------|-----------------------------|
| Dnmt3b | RT-qPCR | CCAAGGACACCAGGACGCGC | TCCGAGACCTGGTAGCCGGAA |
| Fgf5 | RT-qPCR | TCCATGCAAGTGCCAAATTTACGGA | TTCTGTGGATCGCGGACGCA |
| Gapdh | RT-qPCR | GTATGACTCCACTCACGGCAA | TTCCCATTCTCGGCCTTG |
| Gata4 | RT-qPCR | GCCTGTATGTAATGCCTGCG | CCGAGCAGGAATTTGAAGAGG |
| Hells | RT-qPCR | GGCTGGCGGTAACAGAGTA | CGGCCTCGGACCTGAGTATT |
| Hmga2 | RT-qPCR | AAAACGGCCAAGAGGCAGAC | ATGTCTCTTCAGTCTCCTGAGCA |
| Klf4 | RT-qPCR | ACTCACACAGGCGAGAAACCTTAC | TCAGTTCATCGGAGCGGG |
| Myrf | RT-qPCR | GCCTTCAGCGTGGTGTCTAT | CTGGACCTGCCATCAGCATC |
| Nanog | RT-qPCR | TCAGAAGGGCTCAGCACCA | GCGTTCACCAGATAGCCCTG |
| Oct4 | RT-qPCR | AACCTTCAGGAGATATGCAAATCG | TTCTCAATGCTAGTTCGCTTTCTCT |
| Oct6 | RT-qPCR | GACGAGGATGCTCCCAGCT | AGCTTGATGCGTCGTTGCT |
| Otx2 | RT-qPCR | TTCCGTCACTCCAAATCTACCCA | GCCGGACGGTCTCGATTCGCCTGGAGT |
| Plekha1 | RT-qPCR | AACAGAGTGACATAATGATGAGGG | AGAGACTGCTTTAATCCAAGTGTG |
| Rex1 | RT-qPCR | GCAGTTTCTTCTTGGGATTTTACG | CTAATGCCACAGCGAT |
| Slc16a3 | RT-qPCR | GGCTGGCGGTAACAGAGTA | CGGCCTCGGACCTGAGTATT |
| Fgf5 | ChIP-qPCR | TAAAAGCCACAGCAGGGACC | GACAAGAGGAGCCAGGTGAC |
| Hells | ChIP-qPCR | CACTTCCTCCCCAGCTACT | TTCCGTTCTCCAGGGTTCCT |
| Hmga2 | ChIP-qPCR | TGGTCCTTTTGCAGACTGGAT | GCACTGGTATTCACAAGTCC |
| Myrf | ChIP-qPCR | AGTGTCTGCCTTCTGCTTCC | GGGTGGCATGTTTGTCCCTT |
| neg ctrl | ChIP-qPCR | CAAGCCAGAGCCATGTGGCC | GGGGGTGTGTGTGGCAAG |
| Oct6 | ChIP-qPCR | CCGGGGCTCTGCTAGGATAA | CTACATCGAGAGGTTGCGCT |
| Plekha1 | ChIP-qPCR | ATGGGTGGGTAGAGCCATCT | CAGCTCACTCACTGTCAGCA |
| Slc16a3 | ChIP-qPCR | TGAGCAATGCAAATCCAGCG | ATCAGAGTGAGGGGCAAGGA |

*The primer name is reported as indicated in the Figures.