**Table S1** Antibodies used in this study

|  |  |  |  |
| --- | --- | --- | --- |
| Antibody | Dilution ratio | Company | Catalogue no. |
| Rabbit anti-5mC | 1:1000 | Active Motif | 61255 |
| Donkey pAb to Rabbit IgG (488) | 1:500 | Abcam | ab150073 |

**Table S2** RT-qPCR primers used in this study

|  |  |  |
| --- | --- | --- |
| Gene | Primer sequence (5′→3′) | Length (bp) |
| *Izumo1* | F-ATGGGGCCGCATTTTACACTC | 103 |
| R-TCTTTAGCGCATCTGTCACAAA |
| *Tmem95* | F-CTGTCGTCTCCAAGATCATGC | 87 |
| R-GCCCATTCCTTCCATTTCCAC |
| *Spam1* | F-GTTGATCGACTTGGCTTGTATCC | 144 |
| R-GCCCAATTTGTCGTCTGGAAT |
| *Adam1a* | F-TTCCCCACAGATCAGGCGA | 122 |
| R-GCACCAAAATCCCTACTCTGAC |
| *Adam1b* | F-GCCAGTGTTGTGATGAAAATTGT | 148 |
| R-GTCCCATTGCAGTATTCTTCCAG |
| *Clgn* | F-CCAGGGTGTTGGACTATGTTTG | 133 |
| R-CCCCGAGGAAGGTTCATCTTTA |
| *Cd36* | F-ATGGGCTGTGATCGGAACTG | 110 |
| R-GTCTTCCCAATAAGCATGTCTCC |
| *Dnmt1* | F-CCGTGGCTACGAGGAGAAC | 79 |
| R-TTGGGTTTCCGTTTAGTGGGG |
| *Dnmt3a* | F-GATGAGCCTGAGTATGAGGATGG | 101 |
| R-CAAGACACAATTCGGCCTGG |
| *Dnmt3b* | F-CTGTCCGAACCCGACATAGC | 120 |
| R-CCGGAAACTCCACAGGGTA |
| *Dnmt3l* | F-CACCCCTTGTTTGAGGGAGG | 101 |
| R-ATGGTGCAGTAACTCTGGTGT |
| *Tet1* | F-ACACAGTGGTGCTAATGCAG | 112 |
| R-AGCATGAACGGGAGAATCGG |
| *Tet2* | F-AGAGAAGACAATCGAGAAGTCGG | 104 |
| R-CCTTCCGTACTCCCAAACTCAT |
| *Tet3* | F-TGCGATTGTGTCGAACAAATAGT | 111 |
| R-TCCATACCGATCCTCCATGAG |
| *H19* | F-GAACAGAAGCATTCTAGGCTGG | 106 |
| R-TTCTAAGTGAATTACGGTGGGTG |
| *Igf2* | F-GTGCTGCATCGCTGCTTAC | 222 |
| R-ACGTCCCTCTCGGACTTGG |
| *Ascl2* | F-AAGCACACCTTGACTGGTACG | 115 |
| R-AAGTGGACGTTTGCACCTTCA |
| *Mest* | F-GTGGTGGGTCCAAGTAGGG | 187 |
| R-AAGCACAACTATCTCAGGGCT |
| *Peg3* | F-TCATGCACACTAGGGAGAACC | 143 |
| R-GGCAGCACTCCTACTGAAGG |
| *Dlk1* | F-AGTGCGAAACCTGGGTGTC | 148 |
| R-GCCTCCTTGTTGAAAGTGGTCA |
| *Gapdh* | F-AGGTCGGTGTGAACGGATTTG | 123 |
| R-TGTAGACCATGTAGTTGAGGTCA |