**Supplementary Table S1. List of primer sequences used for q-PCR**

|  |  |  |
| --- | --- | --- |
| **Gene symbol** | **Forward sequence (5'- 3')** | **Reverse sequence (3'- 5')** |
| *Akt1* | TCGTGTGGCAGGATGTGTAT | ACCTGGTGTCAGTCTCAGAGG |
| *Brachyury* | GCTTCAAGGAGCTAACTAACGAG | CCAGCAAGAAAGAGTACATGGC |
| *Casp 1* | AGGCACGGGACCTATGTGAT | AGCTGATGGAGCTGATTGAAG |
| *Casp 8* | AGCACAGAGAGAAGAATGAGCC | TTGGCGAGTCACACAGTTCC |
| *Casp3* | GACTCCACTTTCCACGCAAA | CCCACCCCCAATCATTCCT |
| *Dnmt 1* | GCTACCAGTGCACCTTTGGT | ATGATGGCCCTCCTTCGT |
| *Dnmt 3a* | ACACAGGGCCCGTTACTTCT | TCACAGTGGATGCCAAAGG |
| *Dnmt 3b* | GCCTGCAAGACTTCTTCACTACT | GGTACAACTTGGGTGGCTCA |
| *Dnmt 3L* | AACCGACGGAGCATTGAA | CCGAGTGTACACCTGGAGACT |
| *EGF* | GGGCAGGAAACAAGTTCGT | CATGCCCCACAGGATTTG |
| *FGF-10* | AACAACTCCGATTTCCACTGA | CGGGACCAAGAATGAAGACT |
| *FGF-4* | CGGAGAGAGCTCCAGAAGAC | TACCTGCTGGGCCTCAAA |
| *Gapdh* | Proprietary information (Primerdesign) | Proprietary information (Primerdesign) |
| *Gata4* | GGAAGACACCCCAATCTCG | CATGGCCCCACAATTGAC |
| *Glut 1* | ATGGATCCCAGCAGCAAG | CCAGTGTTATAGCCGAACTGC |
| *Glut 3* | TTGCCCTGAGAGTCCAAGA | ACAAGCGCTGCAGGATCT |
| *Glut 8* | CCAGCGCCACTCTAGGAC | CAGCTGATGGTTGTCACTGG |
| *Glut-4* | GTGGACTGGTTTCTGGACCG | CCTCAATCACCGAGTTCCCC |
| *Gsk3b* | GCACTCTTCAACTTTACCACTCAAG | CGAGCATGTGGAGGGATAAG |
| *Hdac1* | AATCCTGAACTGCCAAGTGC | AAGCCTGAAAAGGGGTCCTA |
| *Hdac3* | CTCTGGTGAAGGGTTTGGAA | TGTCCATGTCTCATCCCTGA |
| *Igf-1* | GAAGACGACATGATGTGTATCTTTATC | AGCAGCCTTCCAACTCAATTAT |
| *Igf1-R* | CACTTGCATGACGTCTCTCC | GAGAATTTCCTTCACAATTCCATC |
| *InsR* | TCTTTCTTCAGGAAGCTACATCTG | TGTCCAAGGCATAAAAAGAATAGTT |
| *LIF* | AGCAGCAGTAAGGGCACAAT | AAACGGCCTGCATCTAAGG |
| *MAPK-1* | CCTTCAGAGCACTCCAGAAAGT | ACAACACCAAAAAGGCATCC |
| *mTOR* | GTGGAAAAGTGCTCGGAAGA | CATGGTCTGCACAAAGTGTTG |
| *Nanog* | TGCTTACAAGGGTCTGCTACTG | GAGGCAGGTCTTCAGAGGAA |
| *Oct4* | GTTGGAGAAGGTGGAACCAA | CTCCTTCTGCAGGGCTTTC |
| *p19* | TGCTGGATTGCAGAGCAGTAA | GCATGCAGAGATTCCGAGAGA |
| *p21* | CCGAGAACGGTGGAACTTTGAC | GAACGCGCTCCCAGACGAAGTTG |
| *Rpl13a* | Proprietary information (Primerdesign) | Proprietary information (Primerdesign) |
| *Sox2* | TGGGCTCTGTGGTCAAGTC | TGATCATGTCCCGGAGGT |
| *TGF-𝜶* | ACGTACCCAGAGTGGCAGAC | GTGCCCAGATTCCCACAC |
| *Ywhaz* | Proprietary information (Primerdesign) | Proprietary information (Primerdesign) |

**Supplementary Table S2. List of antibodies used.**

**Flow cytometry**

|  |  |  |  |
| --- | --- | --- | --- |
| **Coupled antigen** | **Company** | **Catalog no.** | **Working dilution** |
| NANOG-APC | Miltenyi Biotec | REA297 | 1:10 |
| OCT3/4 Isoform A-APC | Miltenyi Biotec | REA622 | 1:10 |
| SOX2-PE | Miltenyi Biotec | REA320 | 1:10 |
| SSEA-1-APC | Miltenyi Biotec | REA321 | 1:10 |
| Ki-67-FITC | Miltenyi Biotec | REA183 | 1:10 |
| AnnexinV-FITC Kit | eBioscience | BMS500FI | Annexin-FITC 1:4  PI- 1:5 |

**Immunocytochemistry**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Antigen** | **Species** | **Company** | **Cat no.** | **Working Dilution** |
| Nanog | Mouse | SantaCruz Biotechnology (SCBT) | 293121 | 1:50 |
| Oct4 | Mouse | SCBT | 5279 | 1:50 |
| Sox2 | Mouse | SCBT | 365823 | 1:50 |
| Gata4 | Mouse | SCBT | 25310 | 1:50 |
| Brachyury | Mouse | SCBT | 166962 | 1:50 |
| Alexa 488 | Goat | Abcam | A11008 | 1:1000 |
| Alexa 594 | Donkey | Abcam | A21203 | 1:1000 |