**S2 Table. Lists of primer sequences**

**List of primer sequences for RT-PCR analysis**

|  |  |  |
| --- | --- | --- |
| **Gene** | **ACCESSION Number** | **Sequence** |
| *Foxa2* | NM\_010446.2 | F: CACCTGAGTCCGAGTCTGAG  R: AAGGAGAGAGAGTGGCGGAT |
| *Hnf4α* | NM\_008261.2 | F: AGGCAATGACTACATCGTCCC  R: CAGACCCTCCGAGAAGCATC |
| *E-cad* | NM\_009864.2 | F: GCAGGTCTCCTCATGGCTTTG  R: TTGGATTCAGAGGCAGGGTCG |
| *Epcam* | NM\_008532.2 | F: GGTGAATGCCAGTGTACTT  R: CAATGATGATCCAGTAGGTCC |
| *Alb* | NM\_009654.3 | F: TGAAGTTGCCAGAAGACATCC  R: CAAGTTCCGCCCTGTCATCTG |
| *Ttr* | NM\_013697.5 | F: GCTTCCCTTCGACTCTTCCTC  R: GCCAAGTGTCTTCCAGTACGA |
| *Afp* | NM\_007423.4 | F: GCAGGATGGGGAAAAAGTCA  R: CCTAAGGTCTGGTAGAGAGCG |
| *Aat* | NM\_009243.4 | F: GACCAAGACACAGTTTTCGC  R: ATCTGGGCTAACCTTCTGCG |
| *Tat* | NM\_146214.3 | F: ATCGGCTACCTATCCAGTCG  R: GCCACTGCCAAAATCTTCTGA |
| *CK8* | NM\_031170.2 | F: AGAAGGATGTGGACGAAGCA  R: ATCTCTGTCTTTGTGCGGCG |
| *CK18* | NM\_010664.2 | F: ATGAAGAGGAAGTCCAAGGTC  R: GTTCTCCAAGTTGATGTTCTG |
| *G6P* | NM\_008061.3 | F: TCAACCTCGTCTTCAAGTGGATT  R: CACAGCAATGCCTGACAAGA |
| *Gapdh* | NM\_001289726.1 | F: ACGACCCCTTCATTGACCTCAACT  R: ATATTTCTCGTGGTTCACACCCAT |

**Genomic PCR primer for *Oct4* and *Hnf4α* transgene**

|  |  |  |
| --- | --- | --- |
| **Gene** | **Forward primer (5'-3')** | **Reverse primer (5'-3')** |
| SF*-mOct4* | AGACCACCATCTGTCGCTTC | AAGGCATTAAAGCAGCGTATCCA |
| SF*-mHnf4α* | AGGCAATGACTACATCGTCCC | AAGGCATTAAAGCAGCGTATCCA |

**qRT**–**PCR primer for *Oct4* and *Hnf4α* transgene**

|  |  |  |
| --- | --- | --- |
| **Gene** | **Forward primer (5'-3')** | **Reverse primer (5'-3')** |
| SF*-mOct4* | ACTCTACTCAGTCCCTTTTCC | AAGGCATTAAAGCAGCGTATCCA |
| SF*-mHnf4α* | CATCGTCAAGCCTCCCTCTG | AAGGCATTAAAGCAGCGTATCCA |

**List of primer sequnces for qPCR analysis**

|  |  |  |
| --- | --- | --- |
| **Gene** | **ACCESSION Number** | **Sequence** |
| *Foxa2* | NM\_010446.2 | F: AACATGAACTCGATGAGCCC  R: GATGTACGAGTAGGGAGGTTTG |
| *Gata6* | NM\_010258.3 | F: TCTACAGCAAGATGAATGGCC  R: CTCACCCTCAGCATTTCTACG |
| *Hnf4a* | NM\_008261.2 | F: CTAACACGATGCCCTCTCAC  R: GCAGGAGCTTGTAGGATTCAG |
| *Epcam* | NM\_008532.2 | F: TGGTGTCATTAGCAGTCATCG  R: TCAGTTCAGCACTCAGCAC |
| *Ck18* | NM\_010664.2 | F: ACACCAACATCACAAGGCTG  R: TTCCACAGTCAATCCAGAGC |
| *Ck19* | NM\_008471.3 | F: GTTCTCAGACCTGCGTCC  R: TGACCCAATGCGTACTGAAC |
| *Cyp1a2* | NM\_009993.3 | F: ATAACTTCGTGCTGTTTCTGC  R: ACCGCCATTGTCTTTGTAGT |
| *Cyp1b1* | NM\_009994.1 | F: ATTCTCAGTGGGCAAACGG  R: GGATTCTAAACGACTTGGGCT |
| *Cyp2b10* | NM\_009999.4 | F: CTGTCGTTGAGCCAACCTTC  R: TCCGCAGTTCCTCCACTAAA |
| *Cyp2c37* | NM\_010001.2 | F: TGTGGAGGAACTTAGGAAAACC  R: AGGGCTGCTCAGAATCTTTGT |
| *Cyp2d22* | NM\_001163472.1 | F: GCCTTCATGCCATTCTCAGC  R: CAGAGCCCTAAAGACGCC |
| *Cyp2e1* | NM\_021282.2 | F: GGAATGGGGAAACAGGGTAAT  R: GCACAGCCAATCAGAAAGGT |
| *Cyp3a11* | NM\_007818.3 | F: TGGGACTCGTAAACATGAACTT  R: TTGACCATCAAACAACCCCC |
| *Cyp3a13* | NM\_007819.4 | F: GGGGACGATTCTTGCTTACC  R: AAATACCCACTGGACCAAAGC |
| *Cyp7a1* | NM\_007824.2 | F: AACGATACACTCTCCACCTTTG  R: CTGCTTTCATTGCTTCAGGG |
| *Arg1* | NM\_007482.3 | F: AAGAATGGAAGAGTCAGTGTGG  R: AGTGTTGATGTCAGTGTGAGC |
| *Otc* | NM\_008769.4 | F: ATGCAGCTCTTAGAAAGGGTC  R: TGTACTTGACTTTGGACTGGC |
| *Asl* | NM\_133768.5 | F: TCAATGTCTTGCCACTGGG  R: ACAGGAACTCAGCCACAAAG |
| *Ass1* | NM\_007494.3 | F: CCACGCTCATTTAGACATAGAGG  R: AACAAATTCACATTCAGGGCTG |
| *Cps1* | NM\_001080809.2 | F: AAGTAGAGATGGACGCTGTTG  R: CTTGGCTGATGGTCTGTGTAG |
| *Sox9* | NM\_011448.4 | F: AAGAGACCCTTCGTGGAGGA  R: CTCCGCTTGTCCGTTCTTCA |
| *Ck7* | NM\_033073.3 | F: CCACAATTGAGCACATACAACC  R: TCAGACTATCTTCCAGGCTCG |
| *Hnf1β* | NM\_009330.3 | F: AGCACCTTGACGAATATCCAC  R: AGCCACACTGTTAATGACCG |
| *Hnf6* | NM\_008262.3 | F: AGCAAACTCAAGTCGGGTC  R: GTGTTGCCTCTGTCCTTCC |
| *Onecut2* | NM\_194268.2 | F: ATTCTCAGTGGGCAAACGG  R: GGATTCTAAACGACTTGGGCT |
| *Slc4a2* | NM\_009207.3 | F: TCTTTGCCTTCCTCATATCACTC  R: GTTGCCCATGTCATATTGCTG |
| *Slc10a2* | NM\_011388.3 | F: TGTGACAAAGATCCAAAGATATGTG  R: CTTGTGACCAATCTGACTATGAATAC |
| *Aqp1* | NM\_007472.2 | F: CTGGCGATTGACTACACTGG  R: AAGTCATAGATGAGCACTGCC |
| *Tnfα* | NM\_013693.3 | F: AGACCCTCACACTCAGATCA  R: TGTCTTTGAGATCCATGCCG |
| *Il1β* | NM\_008361.4 | F: ACGGACCCCAAAAGATGAAG  R: TTCTCCACAGCCACAATGAG |
| *Il6* | NM\_031168.2 | F: GATAAGCTGGAGTCACAGAAGG  R: GGAATGTCCACAAACTGATATGC |
| *Timp1* | NM\_011593.2 | F: CTCAAAGACCTATAGTGCTGGC  R: CAAAGTGACGGCTCTGGTAG |
| *Mmp2* | NM\_008610.3 | F: ACCAAGAACTTCCGATTATCCC  R: CAGTACCAGTGTCAGTATCAGC |
| *Mmp9* | NM\_013599.4 | F: GATCCCCAGAGCGTCATTC  R: CCACCTTGTTCACCTCATTTTG |
| *Gapdh* | NM\_001289726.1 | F: TGCCCCCATGTTTGTGAT  R: TGTGGTCATGAGCCCTTC |