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| **QPCR Primer** |
| **Gene** | **Primer sequence** |  |
| GAPDH Mouse | FWD AAGGTCATCCCAGAGCTGAA | REV CTGCTTCACCACCTTCTTGA |
| CLDN1 | FWD ACTCCTTGCTGAATCTGAACAGT | REV GGACACAAAGATTGCGATCAG |
| CLDN5  | FWD AGCCCCTGTGAAGATTGA | REV TCTGGAGCCTGAGTCTCTG |
| MFSD2A | FWD CAGGGATCATCGCCTCCATC | REV GAAGGGCATTGACTCAGCCT |
| ZIC3  | FWD CACGTGCTGGAGGCAATTA | REV GCGAAGGAGATCCCTGAAG |
| FOXF2 | FWD CCTACTCGTTGGAGCAGAGC | REV TAAGAGCCACTAGCGGAAGG |
| VEGFA | FWD AACGATGAAGCCCTGGAGTG | REV CTGCTGTGCTGTAGGAAGCT |
| OCCLUDIN | FWD ACTACCTTGGGTGCTGTGCT | REV AAATTGGGCTGGATGTCAAT |
| ZO1 | FWD GGGAGGGTCAAATGAAGACA | REV GGCATTCCTGCTGGTTACAT |
| VEGFA  | FWD CACAGCAGATGTGAATGCAG | REV TTTACACGTCTGCGGATCTT |
| AXIN2  | FWD GAGTAGCGCCGTGTTAGTGACT | REV CCAGGAAAGTCCGGAAGAGGTATG |
| LEF1 | FWD CAGGAGCCCTACCACGACAA | REV GCCTCCGTCTGGATGCTTT |
| HDAC1 | FWD CTGTCCGGTATTTGATGGCT | REV CACGAACTCCACACACTTGG |
| HDAC2 | FWD GGCGGCAAGAAGAAAGTGTGC | REV GGCATCATGTAGTCCTCCAGC |
| HDAC3 | FWD TCTGAGGACTACATCGACTCC | REV GTCGCCATCATAGAACTCATTG |
| HDAC8 | FWD GGCTGCGGAACGGTTTTAAG | REV GCTTCAATCAAAGAATGCACCATAC |
| **Chip-qPCR Primer** |
| CLDN1 TSS | FWD TCTTCAGATGGTCCCCAGGT | REV CCCGGCGCTGTGATTTAAAG |
| CLDN1 -500 | FWD AGGCACTCTCCGGTTAGCTC | REV GGGCACCTCTTGTCTGATAGTT |
| CLDN1 +500 | FWD GAACAGTGAGTGCACCCTCA | REV CAGAGGACAAGGGCTCCAAG |
| MFSD2A TSS | FWD GCGTTCCTGGTTTGCTAAGT | REV CCTTCTCCTTTGGCCATGA |
| MFSD2A -500 | FWD CTACCCATAAACGGCTGCTG | REV CAATGTCCCTCGTGTCTCAA |
| MFSD2A +500 | FWD TAAAGGAGCCGCATACCG | REV ATCGGAGAGAGAGGATGTCG |
| LEF1 TSS | FWD ACCCTCCCTTCTTGCTGTCT | REV CTCCTCTTCGGGATGACTGA |
| LEF1 -500 | FWD CTGAAGGAAGTGGACTTTTCG | REV AAACCTCTCCACGGATTCCT |
| LEF1 +500 | FWD CAGGAAACGCTGGCCTATAC | REV CGGTGGTTTAACGCACTTCT |
| ZIC3 TSS | FWD TGCGAGGAGTGAGTGATTGA | REV CAACTGCACCAAGAAGCAGA |
| ZIC3 -500 | FWD TGCGGGAATTTGTTCTCGGTA | REV GTTCCCTTTCGGTCCAGAAGA |
| ZIC3 +500 | FWD CTACGGCCCTTCAGGGATCT | REV TCCAGGAGCATCGTCATAGGT  |
| SOX 17 TSS | FWD GGAGAGGCTAGCAAAGCGAA | REV GGTCGGAGGTGGAGATGGAA |
| SOX 17 +500 | FWD GCTTAGACTCTCCCACTTCGG | REV ACTAGAAGCTGTGCCCGTAA |
| SOX 17 -500 | FWD GCAGTCCTACCCAGTTTGCT | REV GACGGGCTTCCTTGGAGAAA |
| CLDN5 TSS  | FWD GGTCTGCTCATGGATTGGTT | REV ATTGATTCTGGTGCCTCTGC |
| CLDN5 -500 | FWD GTGTGCCAAGGGAAAAACGG | REV CACCTGCTACATCCCGGATC |
| CLDN5 +500 | FWD GCTGGTGGCACTCTTTGTTA | REV TAGAACTCGCGGACAACGAT |
| AXIN2 TSS | FWD GAGCGCCTCTGTGATTGG | REV GCGAACGGCTGCTTATTTT |
| AXIN2 +500 | FWD AGTTTTTGTTGGAAGCGCCC | REV ACGGAAAACAACGATCCCGA |
| AXIN2 -500 | FWD ACACACACATCATGCCTTCTG | REV CCCCTTCATCAAATCAAACA |