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| **Primers for *in situ* hybridization probes** |
| **Gene** | **Forward and reverse primer** | **Fragment length** |
| *Hox1* | 5’- GAGCAAATGGACACGGCAAG -3’5’- CTTCGACGGGCTATCTTCAC -3’ | 855 bp |
| *Hox3* | 5’- GAGGTGGTGGCAGCTATGG -3’5’- CGCAGTAGTTCATATTGACCAC -3’ | 1077 bp |
| *Meis* | 5’- CAGTCGCCACGTCTATGTACG -3’5’- CTGGACTATCCTGCGCCTC -3’ | 983 bp |
| *Cyp26.1* | 5’- GCTGGTACTGGTGCTGTGGAG -3’5’- ACATCACGCGCCGCTAACAC -3’ | 759 bp |
| *Cyp26.2* | 5’- CTGCTGCTGTCCTGGAAGCTG -3’5’- GTCTCCACTGTCTCCTCCCTG -3’ | 720 bp |
| *Cyp26.3* | 5’- CAGACTTCTCCCGTAAGCGAC -3’5’- CCCCAACAGGTGGACTTAGC -3’ | 891 bp |
| *Cdx* | 5’- AAGACGAGGACGAAGGATAA -3’5’- ACTGACCAGAGCCCTTTCCT -3’ | 192 bp |
| *Pitx* (gift Z. Kozmik) | 5’- GCTTGGACCAACCTCACAGAG -3’5’- TCGACGAACTCTGAACAGCT -3’ | 962 bp |
| *Six1/2* | 5’- GTTCACCCAGGAGCAGGTCG -3’5’- GTTACTTACGGCCACGGCG -3’ | 775 bp |
| *IrxC* | 5’- GTCCTACCCACACTTTGGATAC -3’5’- CCAGTGGCGGAGGTTAGCTAC -3’ | 1096 bp |
| *NosC* | 5’- TCGGCCGAACGTAATTGCCG -3’5’- GCCCGCATGAAGAACTGGCTG -3’ | 787 bp |
| **Primers for quantitative RT-PCR** |
| *Adh3* | 5’- GTCCCACAGTGCAAGGAGTG -3’5’- CCACCGTGTACTCGCTGAAG -3’ | 175 bp |
| *Rdh11/12\_18* | 5’- CAGCAGGAGGGAAGTGTGAG -3’5’- GGACGCAAGGTCAAGTTTCTG -3’ | 227 bp |
| *Aldh1a\_2* | 5’- GTAAGATCATCCAGGCAGCAG -3’5’- CGTCGTAGACAGATTCCTCCAC -3’ | 201 bp |
| *Crabp* | 5’- GTCAGCTTCAAGATCGGAGAG -3’5’- CTTCATCACCAGGTACATCCG -3’ | 171 bp |
| *RAR* | 5’- GTCGTCTGGCTACCACTACGG -3’5’- ACCTGCAGAACTGGCATCTG -3’ | 152 bp |
| *Hox1* | 5’- GGATACATGCACCACCATACG -3’5’- GTCCGTCCGTTGTTGGGTCCG -3’ | 176 bp |
| *Hox3* | 5’- CCGACAACAACCACAGCAG -3’5’- CACAGGTAGCGGTTGAAGTGG -3’ | 256 bp |
| *Meis* | 5’- CAGTCGCCACGTCTATGTACG -3’5’- GAAAGAGTGGATGCCCGTAG -3’ | 198 bp |
| *Cyp26.1* | 5’- GCTGGTACTGGTGCTGTGGAG -3’5’- CGTGGAGAATCTTGCGCAC -3’ | 248 bp |
| *Cyp26.2* | 5’- CAGGGAGGAGACAGTGGAGAC -3’5’- CTTCTCCAGGTCCTCATGCAC -3’ | 210 bp |
| *Cyp26.3* | 5’- CAGGAAGTTGCGGCATATCTTG -3’5’- GTCGCTTACGGGAGAAGTCTG -3’ | 190 bp |
| *Dmrt* | 5’-CTGGGTCTCCTGTACGGTAGTC -3’5’- GTCCTCCTGTACCTTTCCCG -3’ | 243 BP |
| *FoxE* | 5’- GACGGCTCAGCAGAATACAAG -3’5’- GTTGTGTCGGATGGAGTTCTGC -3’ | 214 bp |
| *RunX* | 5’- GATTCAACGACCTGCGCTTC -3’5’- CTCTTCTAGCTTCTGCCGGTG -3’ | 167 bp |
| *Pdvegfr* | 5’- CCAAAGGTGACCACCAACAGTC -3’5’- GTCATTCTGGATGATGCGGC -3’ | 150 bp |
| *Six1/2* | 5’- GCAGCTGAGGCGAAAGAGAG -3’5’- CGCCGTGGCCGTAAGTAAC -3’ | 258 bp |
| *Cdx* | 5’- GGCCCTGATGGTAAGACGAG -3’5’- CTTCCGCTTGGCCATCTTG -3’ | 213 bp |
| *Pitx* | 5’- GCTCACCGCCAAGTCGTTC -3’5’- CTGGAATTGCACTGCTCACG -3’ | 246 bp |
| *NosA* | 5’- AGTACAGTCATCTCCAGAAC -3’5’- TCTTGCAAGCGCTTCTATCTG -3’ | 221 bp |
| *NosB* | 5’- AGTTTACTCCCGGCGATCA -3’5’- AGAACATGGCGGCAAACGC -3’ | 191 bp |
| *NosC* | 5’- CAGGATTCTGCGCGTTTGC -3’5’- GGAGCTAGCCTCGCTCATG -3’ | 197 bp |
| *Rpl32* | 5’- GGCTTCAAGAAATTCCTCGTC -3’5’- GATGAGTTTCCTCTTGCGCGA -3’ | 117 bp |