List of the PCR primers used in this study and NCBI ID for genes investigated

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| **gene** | **PCR primer sequences** | **NCBI Reference** |
| *gsc* | Forward:Reverse: | 5’-CGCCGGCTCTGTGCTTATTT-3’ 5’-TGTTCCTGTTTTCAGGCGAC-3’  | NM\_131017.1 |
| *pitx2* | Forward:Reverse: | 5’-TCCTTGCTCTCGGCTGAAAC-3’ 5’-GGGCTGCATAAGTCCGTTGA-3’ | NM\_130975.2 |
| *isl1* | Forward:Reverse: | 5’-CCAGCCTGCTTTCCAACAAC-3’ 5’-TGCATGCTTAGTACTTGGGC-3’ | NM\_130962.1 |
| *foxc1a* | Forward:Reverse: | 5’-TTTACTACCCCGTGGTGGAC -3’ 5’-CGTCTGACGCATTTCAACAC-3’ | NM\_131728.3 |
| *fsta* | Forward:Reverse: | 5’-TTTTGCGCTGCTCGTCTATC-3’5’-GCCGGGAATTTAATACGACTCACTATAGGGCTCCAGGAGAACCCCCAAAG-3’ | NM\_131037.3 |
| *tbx1* | Forward:Reverse: | 5’-GCCAACACGCACGAGTTTAG-3’ 5’-TCTGCCATTGGGTCCATTCC-3’ | NM\_183339.1 |
| *cyp26c1* | Forward:Reverse: | 5’-ATCATCCTGGGACCCAACAC-3’5’-GCCGGGAATTTAATACGACTCACTATAGGGATAAGCTTCTGCCGTCTCGT-3’ | NM\_001029951.2 |
| *alx1* | Forward:Reverse: | 5’-TTGAGACGAGGCCAGAGGAC-3’ 5’-CCTGGCTCTGTGAATAATTACAAG-3’ | NM\_001045074.1 |
| *tbx20* | Forward:Reverse: | 5’-TCCATAGCCGCACTCATGTC-3’ 5’-GCAAACGGGTTGCTGTCAAT-3’ | NM\_131506.2  |