

**Table 1: Primer and probe sequences**Mouse *Pitx* cDNA cloning

Pitx1.forward	5' ATGGACGCCTTCAAGGGAGGCAT 3'
Pitx1.reverse	5' TCAGCTGTTGTACTGGCAAGCGT 3'
Pitx2a/b.forward	5' CGTACGAAGCTTATGGAGACCAATTGTCGCAAAC 3'
Pitx2c.forward	5' CGGGATCCTCCATGAACTGCATGAAAGGC3 '
Pitx2.reverse	5' AGTTGCCCACTCCGACAGTCCT 3'

Murine *Fshb* reporter and ChIP

-199/-179.forward	5' GTTTGTACAGAAACCATCATC 3'
-21/+1.reverse	5' TGAGGTGTAACCTGACTCAGTG 3'
-505/-485.forward	5' TGCTCTTCACAAAGCATCAGA 3'
-305/-325.reverse	5' TTTCTGAACATTGCTTTGGCT 3'
-119/-98.forward	5' GTCCGTCTAAACAATGATTCCC3'
pGL3.reverse	5' TTTACCAACAGTACCGGAATG 3'

Human *FSHB* reporters

-486/-459.forward	5' CGC <u>ACGCGT</u> AATGTGGGAGGGAAAGAGAGATACAGTT 3'
-126/-98.forward	5' CGC <u>ACGCGT</u> CTAAACACTGATTCACTTACAGCAAGCT 3'
-21/+7.reverse	5' CGC <u>CTCGAG</u> CTGTAGACTGAATGAAATCTCAGTT 3'

Mutagenesis (sense strand)

m <i>Fshb</i> .PBEmut	5' TTGGTCATGTTAACACCCAGTAGGTCGACAGGGTTTTAAGTTTGTAT 3'
h <i>FSHB</i> .PBEmut	5' TTGGTCATATTAATACCCAACAGGTCGACAAGGTGTTAGTTGCACAT 3'
Pitx2c.K141E	5' CCGGGTTTGGTTCGAGAATCGCCGGG 3'
Pitx2c.K141A	5' GAGTCCGGGTTTGGTTCGCGAATCGCCGGGCCAAAT 3'
Pitx1.K139A	5' GTGCGGGTCTGGTTCGCGAACCGGCGAGCCAAATG 3'

EMSA probes (sense strand)

-61/-40 *mFshb* WT            5' CACCCAGTAAATCCACAGGGTT 3'  
-61/-40 *mFshb* PBEmut       5' CACCCAGTAggTCgACAGGGTT 3'  
-232/-200 *mFshb*            5' TGAGGGAGTGGGTGTGCTGCCATATCAGATTCG 3'  
-233/-201 *rFshb*             5' TGAAGAGTGGGTGTGCTGCCATATCAGATTCG 3'

Epitope tagging of *Pitx1* cDNA

Flag *Pitx1*.Forward        5' CGGAATTCGACGCCTTCAAGGGA 3'  
Myc *Pitx1*.Forward        5' CAGGTACCCACCATGGAGCAGAAGCTGATCAGCGAGGAAGATCTG  
                                  GAATTCGACGCCTTCAAGGGAGGCATG 3'  
Tag *Pitx1*. reverse        5' ACTCTAGATTCAGCTGTTGTA CTG 3'