

jag2b^{ihb329/+} (CZRC catalog ID: CZ 1231)

Nature of the mutation

Between 155bp to 159 bp of the wild-type *jag2b* coding sequence, ACAGC, is mutated to GGGGAATGTTGCGACA in exon 2.

Sense Strand Sequence

caatgtatttttagGTGTCC CAGTCCTCTGGCTATTTTGAGCTGCAGCTGATTGCTGTAGAAAAT
GTAAACGGTGAGTTGTGGGACG GGGAAATGTTGCGACAGCAGC CGGAACTCTCAAGAC
CAGCGCTGCGTGCGGGACGAGTGCGATACTTACTTTAAAGTGTGTCTGAAGGAGTACCA
GCTGAAGTCACCACCACTGGACAGTGCACCTTCGGCTCTGGATCTACCGACGTTCTT
GGTGAAATATAATTTCTTTTAAGACCGCAAAAAACAGCCCCAGCAAAACGAGCGACG
TGGGAAAGATCATCA TCCCTTTTCACTTCGCCTGG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

jag2b-2_forward: 5' CAATGTATTTT TAGGTGTCC 3'

jag2b-2_reverse: 5' CCAGGCGAAGTGAAAAGGGA 3'

PCR program:

95°C 5min

95°C 30 sec

53°C 30 sec

72°C 30 sec

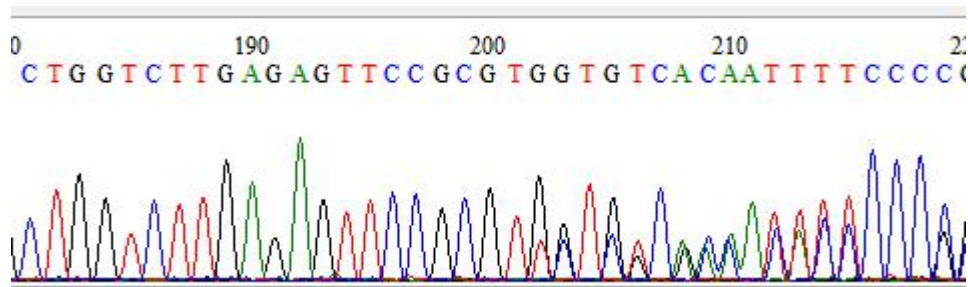
72°C 8min

4°C hold

} 30 Cycles

Product size: 322 bp

The sequencing results of the *jag2b^{ihb329/+}* :



```

WT      -caatgtatTTTTtagGTGTCCAGTCCTCTGGCTATTTTGAGCTGCAGCTGATTGCTGTA
ihb329  TCAATGTATTTTAGGTGTCCAGTCCTCTGGCTATTTTGAGCTGCAGCTGATTGCTGTA
          *****

WT      GAAAATGTAAACGGTGAGTTGTGGGACGGGGAATGTTGCGACAG-----CACGC
ihb329  GAAAATGTAAACGGTGAGTTGTGGGACGGGGAATGTTGCGGGGAATGTTGCGACAACGC
          ***** . *          ****

WT      GGAACTCTCAAGACCAGCGCTGCGTGCGGGACGAGTGCGATACTTACTTTAAAGTGTGTC
ihb329  GGAACTCTCAAGACCAGCGCTGCGTGCGGGACGAGTGCGATACTTACTTTAAAGTGTGTC
          *****

WT      TGAAGGAGTACCAGTCTGAAGTCACCACCACTGGACAGTGCACCTTCGGCTCTGGATCTA
ihb329  TGAAGGAGTACCAGTCTGAAGTCACCACCACTGGACAGTGCACCTTCGGCTCTGGATCTA
          *****
    
```

Reference:

None