

***bicd2* *ihb386/+* (CZRC catalog ID: CZ1338)**

Nature of the mutation

Between 268 bp to 271 bp of the wild-type *bicd2* coding sequence, AGAA is deleted in exon 2.

Sense Strand Sequence

ccactcgtatgctgtaatcaataattgtaaatttaattgtaaattgtttctgaagtgtctgaataacattggtttgactgtacattccataacatc
catttagtagtggtgtacaagtgctttaaacttcaaacctccacccccatccatcctccaccctacaagacaagtaattagcttgtaaaccac
agagctagatcttactagactttttacagaatttaacctcaatctctctctatcatgttcccacagGCCTATGGCCAGGTTC
ACTCAACCCACAGAAAGGTGGCTGCGGACGGCGAGAGCAGGGAGGAGTCGCTCA
TCCTGGAGTCGGCATCTAAAGAGGCGTACTATGAGCAGAGGGTGCAGGAGCTGCA
GTCGGACCTACGACAAGCTAAAAACACCCTCACCGGCACCCAGGCGGAGAACGA
GCG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crispr/cas9 target site

Genotyping assay

Primers:

bicd2_forward: 5' CCACTCGTATGCTGTAATCA 3'

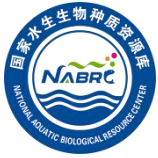
bicd2_reverse: 5' CGCTCGTTCTCCGCCTGGGT 3'

PCR program:

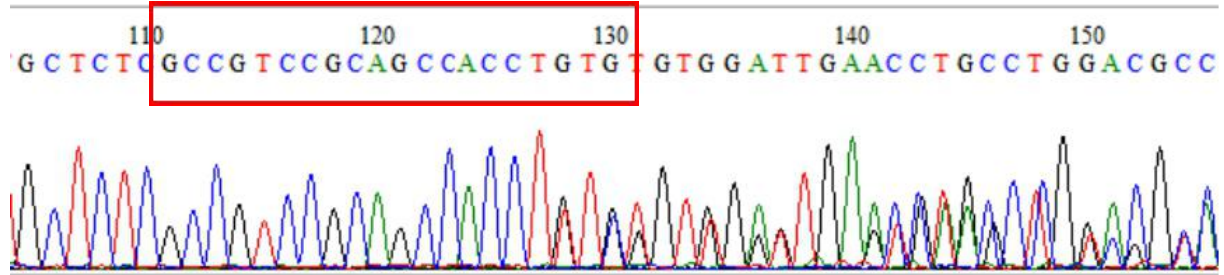
95°C	5min	} 30 Cycles
95°C	30 sec	
55°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

Product size: 440 bp





The sequencing results of the CZ1338:



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WT          GCCTATGGCCAGGTTCACTCAACCCACAGAAAGGTGGCTGCGGACGGCGAGAGCAGGGAG
ihb386     GCCTATGGCCAGGTTCACTCAACCCAC----AGGTGGCTGCGGACGGCGAGAGCAGGGAG
*****

WT          GAGTCGCTCATCCTGGAGTCGGCATCTAAAG
ihb386     GAGTCGCTCATCCTGGAGTCGGCATCTAAAG
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Reference:

None

