

il12a^{ihb420/+} (CZRC catalog ID: CZ1363)

Nature of the mutation

Between 311 bp to 318 bp of the wild-type *il12a* coding sequence, ACATCAGA are deleted in exon 3.

Sense Strand Sequence

gtgctgctgtcagctattgtgtctaataaagtgtgtgtgtgctgctgcagatctgctgtcagctctaatgtaagtgtgtgtgtgtgtttgg
ccagGTGGAGTGTGTGAAGAACATCAGAGGTGATCTGCGCTATTATGATCTGCTGCT
GAACTCCTACAAGCCCAGCACACAAGAGCTGAGCCCAGTCATCA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

*il12a*_forward: 5' gtgctgctgtcagctattg 3'

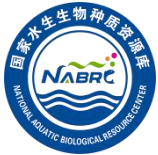
*il12a*_reverse: 5' TGATGACTGGGCTCAGCT 3'

PCR program:

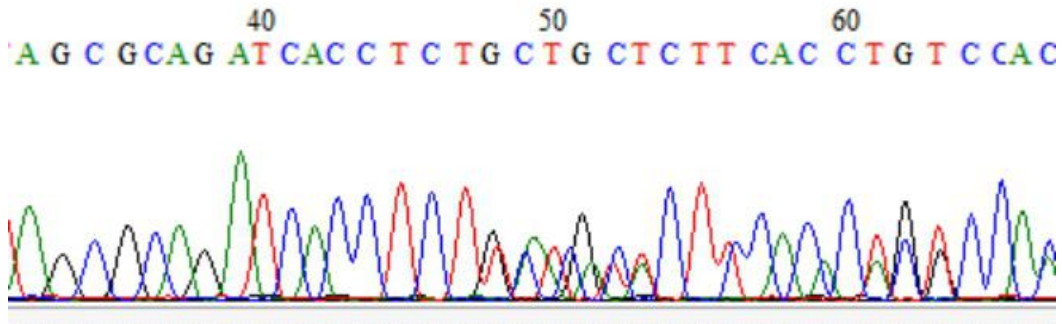
95°C	5min	
95°C	30 sec	} 30 Cycles
56°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

Product size: 196 bp 测序使用下游引物，上游有 poly 结构“tgtgtgtgtg”





The sequencing results of the CZ1363:



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WT          gtgctgctgtcagtctattgtgtctaatataagtgtgtgtgtgctgctgtcagatctgct
CZ1363      gtgctgctgtcagtctattgtgtctaatataagtgtgtgtgtgctgctgtcagatctgct
*****

WT          gtcagtctaatgtaagtgtgtgtgtgtgtgtgtttggccagGTGGAGTGTGTGAAGAACATC
CZ1363      gtcagtctaatgtaagtgtgtgtgtgtgtgtgtttggccagGTGGAGTGTGTGA-----
*****

WT          AGAGGTGATCTGCGCTATTATGATCTGCTGCTGAACCTCTACAAGCCCAGCACACAAGAG
CZ1363      AGAGGTGATCTGCGCTATTATGATCTGCTGCTGAACCTCTACAAGCCCAGCACACAAGAG
*****

WT          CTGAGCCCAGTCATCA
CZ1363      CTGAGCCCAGTCATCA
*****
  
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Reference:

None

