



***ihb539/+* (AB) (CZRC Catalog ID: CZ1513)**

Nature of the mutation

The *ihb539* allele contains 8bp deletion and 10bp insertion of the *mertka* sequence.

Genotyping assay

Genotyping of the *ihb539* allele is based on the sequencing assay.

Primers:

F: 5' TCATTGTGAAAAGCACCATAT 3'

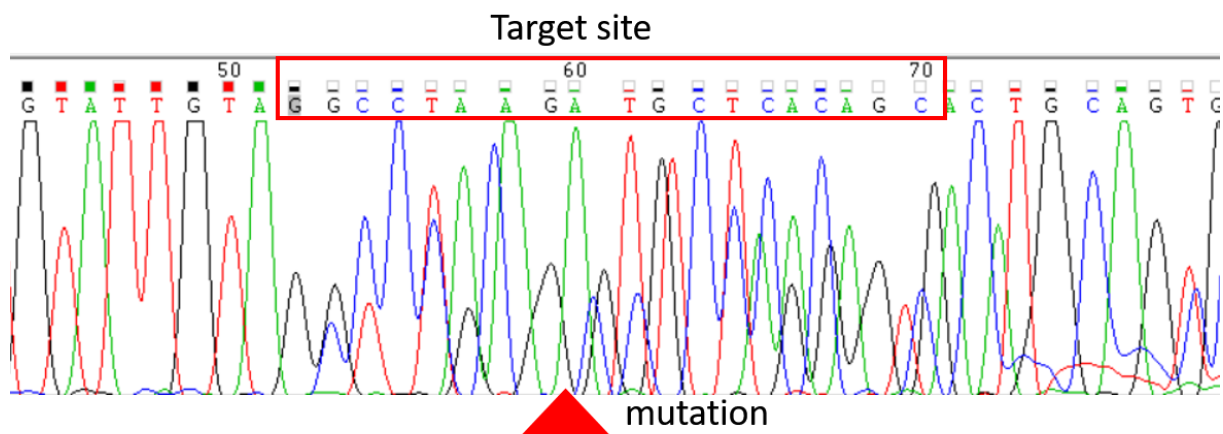
R: 5' GTGTCTCACCGCCCTCAG 3'

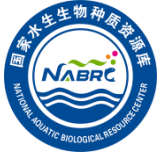
PCR program:

1. 94 °C for 3 min
2. 94 °C for 30 sec
3. 57 °C for 30 sec
4. 72 °C for 50 sec
5. Go to step 2 (above) for 29 cycles
6. 72 °C for 5 min
7. 12.0 °C hold

Product size: 261bp.

Sequence map:





Sequence:

target site: in exon 7

tcattgtgaaaagcaccatataaataagctgctttgatagaattttgctataaactctgatgtattgtagGTCCGAGAGCTCCA
GGGTGCAAGGCAGCCCTACAGCTGCTCACAGCACCCGCAGTGCCTCCCTTCCAGTAT
GAGATCAACAACCTGAAGGCCATGACCTGGTACAACATGAGTGTGTCTCCTGCAGCA
ATGAGATCGGCCCGTCGCCACCCAGCGCATGGGTGCAGAGTAACACCACTGAGGG
CGGTGAGACAC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : CRISPR/Cas9 target site

>WT:

gctataaacctgatgtattgtagGTCCGAGAGCTCCAGGGTGCAGGCAGCCCTACAGCTGCTCA
CAGCAC

> ihb539 (13 insertion, splice-site alterations):

gctataaacctgatTGGTCTCTGTGATGTATTGTAGGTCCGAGAGCTCCAGGGTGCAGGCA
GCCCTACAGCTGCTCACAGCAC

Reference:

None

Availability:

Frozen Sperm

