



***ihb538/+* (AB) (CZRC Catalog ID: CZ1512)**

Nature of the mutation

The *ihb538* allele contains 8bp deletion of the *ephb4a* sequence.

Genotyping assay

Genotyping of the *ihb538* allele is based on the sequencing assay.

Primers:

F: 5' TCAGGTCCTCCGTCGTCT 3'

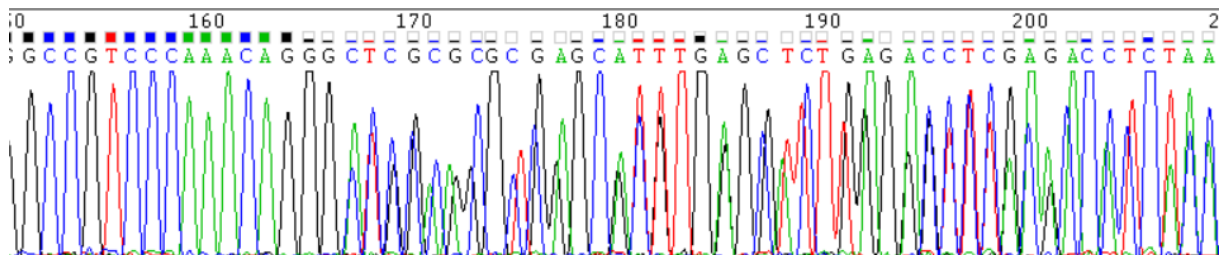
R: 5' CCTGTATCTGTCATTCCCAAG 3'

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: 482bp.

Sequence map:





Sequence:

target site: in exon 6

tcag**GTCTCCGTCGTCT**CCGCGCAGCCCCGTCCCGCAAGTAAACGACACATCTCTG
ACTCTGGAGTGGAGCGAGCCGTTGGACAGCGGCGGCCGCTCGGATCTCAGCTACA
GCGTGGAGTGTAGGATGTGCTCCACCCCTGGAAGTCCCTGCACACTATGCAGTGA
CGGTGTGAATTATCGGCC**GTCCAAACAGGGATCCA**AGGCCGGCGCGTGAGCATT
TGGGGTCTGAGACCTCACACCACCTACAGCTTCACTGTCATGGCCCTCAACGGGG
TCTCCGCTCAGAGTCAGCAGGGGCCTGCAGGAGAGACCATCAACATCACCACCAG
TCCAATGGTGAGAATGAGAAACAGCAGGTTTTATACCACAATACTTCTTTAGTATG
GTGTAGGGCCTCCTTATTCGGCCAACACAGCATCAGTTGGTCTTGGGAATGACAGA
TACAGGATGTTGAGCCATTCTT**CTTGCAGAGTAGTGG**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : CRISPR/Cas9 target site

>WT:

TATCGGCCGTCCCAAACAGGGATCCAAGGCCGGCGCGTGAGCATTGTTGGGGTCTGA
GACCTCACACCACCTACAGCTTCAC

> ihb538 (8bp deletion):

TATCGGCCGTCCCAAACAGGGCCG-----
GCGCGTGAGCATTGTTGGGGTCTGAGACCTCACACCACCTACAGCTTCAC

WT:	TATCGGCCGTCCCAAACAGGGATCCAAGGCCGGCGCGTGAGCATTGTTGGGGTCTGAGACCT
ihb538	TATCGGCCGTCCCAAACAG-----GGCCGGCGCGTGAGCATTGTTGGGGTCTGAGACCT

WT:	CACACCACCTACAGCTTCAC
ihb538	CACACCACCTACAGCTTCAC

Reference:

None





国家水生生物种质资源库国家斑马鱼资源中心
China Zebrafish Resource Center (CZRC)
National Aquatic Biological Resource Center (NABRC)

Availability:

Frozen Sperm

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