



***ihb537/+* (AB) (CZRC Catalog ID: CZ1511)**

Nature of the mutation

The *ihb537* allele contains 3bp deletion and 1bp insertion of the *ephb4a* sequence.

Genotyping assay

Genotyping of the *ihb537* allele is based on the sequencing assay.

Primers:

F: 5' TCAGGTCCTCCGTCGTCT 3'

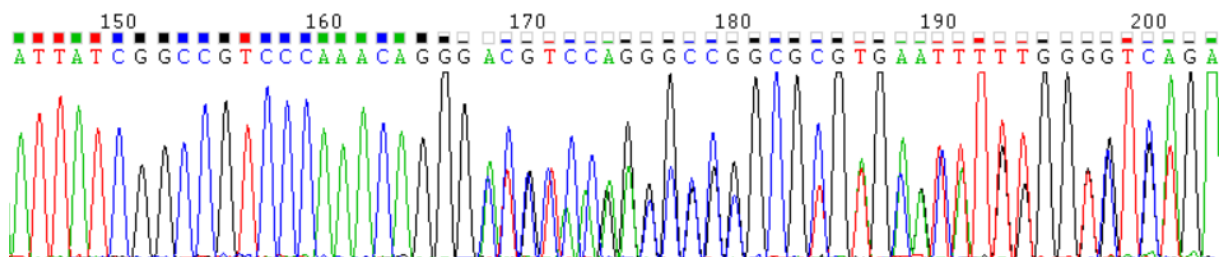
R: 5' CCTGTATCTGTCATTCCCAAG 3'

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

tcagGTCCTCCGTCGTCTCCGCGCAGCCCCGTCCCGCAAGTAAACGACACATCTCTG
ACTCTGGAGTGGAGCGAGCCGTTGGACAGCGGCGGCCGCTCGGATCTCAGCTACA
GCGTGGAGTGTAGGATGTGCTCCACCCCTGGAAGTCCCTGCACACTATGCAGTGA
CGGTGTGAATTATCGGCCGTCCCAAACAGGGATCCAAGGCCGGCGCGTGAGCATT
TGGGGTCTGAGACCTCACACCACCTACAGCTTCACTGTCATGGCCCTCAACGGGG
TCTCCGCTCAGAGTCAGCAGGGGCCTGCAGGAGAGACCATCAACATCACCACCAG
TCCCAATGGTGAGAATGAGAAACAGCAGGTTTTATACCACAATACTTCTTTAGTATG
GTGTAGGGCCTCCTTATTCGGCCAACACAGCATCAGTTGGTCTTGGGAATGACAGA
TACAGGATGTTGAGCCATTCTTCTTGCAGAGTAGTGG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : CRISPR/Cas9 target site

>WT:

TATCGGCCGTCCCAAACAGGGATCCAAGGCCGGCGCGTGAGCATTGTTGGGGTCTGA
GACCTCACACCACCTACAGCTTCAC

> ihb537 (1bp deletion and 3bp insertion):

TATCGGCCGTCCCAAACAGGGCCGTCCAAGGCCGGCGCGTGAGCATTGTTGGGGTCT
GAGACCTCACACCACCTACAGCTTCAC

WT:	TATCGGCCGTCCCAAACAGGG--ATCCAAGGCCGGCGCGTGAGCATTGTTGGGGTCTGAGAC
ihb537	TATCGGCCGTCCCAAACAGGGCCGTCCAAGGCCGGCGCGTGAGCATTGTTGGGGTCTGAGAC
	***** . *****
WT:	CTCACACCACCTACAGCTTCAC
ihb537	CTCACACCACCTACAGCTTCAC

Reference:

None

Availability:

Frozen Sperm

