



## ***ihb535/+* (AB) (CZRC Catalog ID: CZ 1509)**

### **Nature of the mutation**

The *ihb535* allele contains 2bp deletion and 4bp insertion of the *ptena* sequence.

### **Genotyping assay**

Genotyping of the *ihb535* allele is based on the sequencing assay.

### **Primers:**

F: 5' TGATACAATTTTGTAGCTCCTG 3'

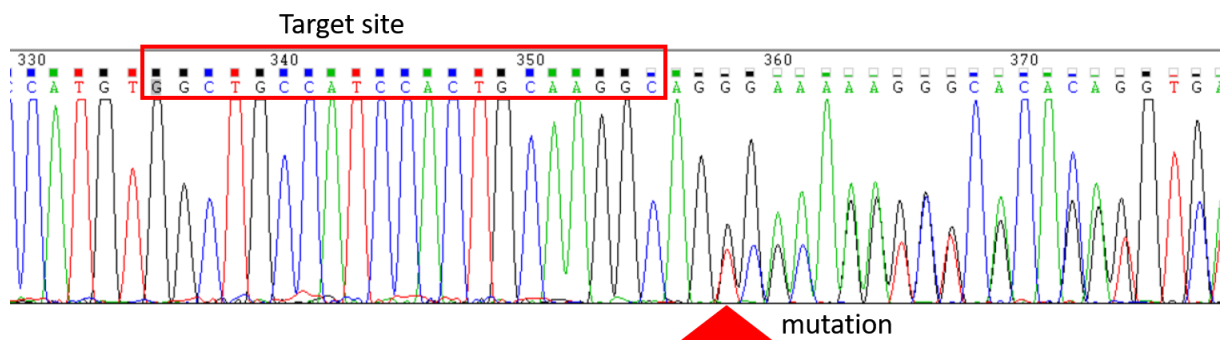
R: 5' ATCCCTGGTTCTGACTTCC 3'

### **PCR program:**

1. 94 °C for 3 min
2. 94 °C for 30 sec
3. 55 °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:** 494bp.

### **Sequence map:**





### Sequence:

target site: in exon 5

tgatacaat<sup>ttt</sup>gtagctcctg<sup>t</sup>gtcgaactataatcagactcaagattgcatgtctttgcagtgtgtctcttgaagtacacacattgcaatattgatgctgaaacgatatattgtgcagcccttattcacatgaacattgccactgtttcacacagattagcatttctctctgaaaatcatcatcagtcctcattat<sup>ttt</sup>gtcctctttggaaaaactgcaaaggtactgaattt<sup>aaat</sup>ctgtttgtgtattcagTGGCACAGTATCCCTTCGAGGACCACAACCCTCCACAATTGGAATTAATAAAGCCCTTCTGCGAGGATCTCGACCAGTGGCTGTCCGAGGATGAGAACCATGTG<sup>GCTGCCATCCACTGCAAGGC</sup>AGGCCAAAGGTCGCACAGGTGTCATGATATGTGCCTATCTGCTGCATCGCAAGAAGTTCGCAGAGGCTCAAGAGGCACTGGACTTTTATGG<sup>GGAAGTCAGAACCAGGGAT</sup>

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

<sup>atcg</sup> : Forward/Reverse primer

<sup>atcg</sup> : CRISPR/Cas9 target site

>WT:

GCTGCCATCCACTGCAAGGCAGGCCAAAGGTCGCACAGGTGTCATGATATGTGCCTATCTG

> ihb535 (2bp deletion and 4bp insertion):

GCTGCCATCCACTGCAAGGCAGtgggAAAGGTCGCACAGGTGTCATGATATGTGCCTATCTG

### Reference:

None

### Availability:

Frozen Sperm

