



## ***ihb488/+* (AB) (CZRC Catalog ID: CZ 1442)**

### **Nature of the mutation**

The *ihb488* allele contains 17bp deletion of the *cdk2* sequence.

### **Genotyping assay**

Genotyping of the *ihb488* allele is based on the sequencing assay.

### **Primers:**

F: 5' CAATCACCTAACATAGTCAA 3'

R: 5' AAAGAACTGAAAGCTATCTGG3'

### **PCR program:**

1. 94 °C for 3 min
2. 94 °C for 30 sec
3. 53 °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:** 402bp.

### **Sequence:**

Target Position: exon 2

Sense Strand Sequence

CAATCACCTAACATAGTCAAGTATGTGCACTGTTTATGAATTTAGTCTCAAAC  
CAGTGAATATTTCAATGCACAAATGTCCTCCTGGTTTGTGAGTTTACAGTTTCT  
TGCCTCCAGGTTGCGTGATGTGATACACACTGAAAATAAACTTTACTTGGTGTTTG  
AGTTTCTTCACCAAGACCTGAAGAGGTTTATGGACTCGACGCTGTGAGTGGCAT  
ATCCTTGCCACTCGTGAAGgtgagtttaaggtttgagcattagaagaagtgttaacatcagctaaagctgctgaactgtt  
cctttaaaaatatattactcaatattacataaatattttccacatcatcacttactaactttattatctcataccagatagctttcagttcttt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Cas9 target site





>Wild type

CCTGAAGAGGTTTATGGACTCGACGTCTGTCAGTGGCATATCCTTGCCACTCGTG  
 AAG

>ihb488(-17bp)

CCTGAAGAGGTTTATGGACTCGACGTCTG-----CCTACTCGTGAAG

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.471)

Wild	CCTGAAGAGGTTTATGGACTCGACGTCTGTCAGTGGCATATCCTTGCCACTCGTGAAG
ihb488(-17bp)	CCTGAAGAGGTTTATGGACTCGACGTC-----TGCCACTCGTGAAG
	***** <span style="float: right;">*****</span>

**Reference:**

None

