



## ***ihb345/+* (AB) (CZRC Catalog ID: CZ 431)**

### **Nature of the mutation**

The *ihb345* allele contains a 8bp deletion from exon 14 of the *apc* sequence.

### **Genotyping assay**

Genotyping of the *ihb345* allele is based on the sequencing assay.

### **Primers:**

F: 5' GTTCAATACTTATCTTCCCTGCTG 3'

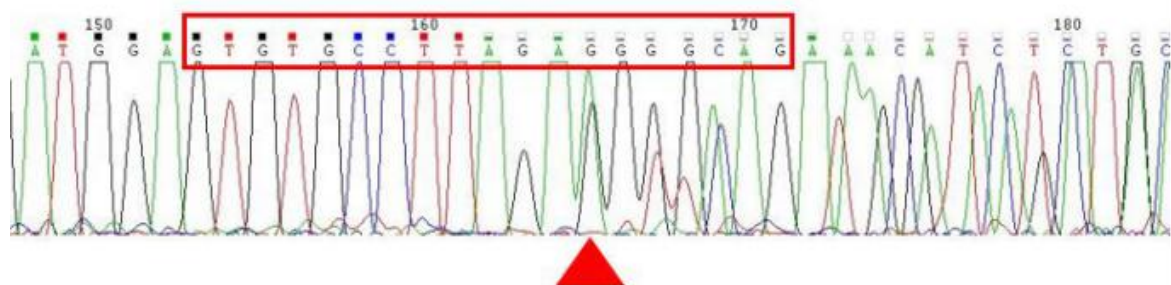
R: 5' TGTTGGTTTGGCTTCGGT 3'

### **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

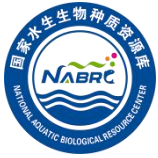
**Product size:** 431bp.

### **Sequence map:**



### **Sequence:**





Target Position: exon 14

gttcaacttattcttccctgctgtatttaattagcatttaataataatatttttagtgactagacagcatttctgattcgtaccaacagGTA  
ATTGCCAGTGTTTTGCGGAACCTCTCATGGCGAGCTGATGTGAACAGTAAGAAGA  
TTTTGCGAGAAGTAGGCAGTGTGCGGGCTCTGATGGA**GTGTGCCTTAGAGGTGCA**  
**GA**AGgtaagatacatctctgattaattcagtaatcacaatcctaacaagccattcagtcattaaggaagttgtccttctgaattacagG  
AGTCCACATTA AAAAGTGTCTGAGTGCCCTTTGGA ACTTGTCGGCTCACTGCAC  
TGAAAACAAAGCTGATATCTGCACCGTTCCCGGAGCTTTGGCGTTTTTAGTCAGC  
ACTTTAACCT**ACCGAAGCCAAACCAACA**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg**: Forward/Reverse primer

**atcg**: cas9 target site

>Wild type

TCTGATGGA**GTGTGCCTTAGAGGTGCAGA**AGgtaagatacatctctgattaattcagtaatcacaatcct

>ihb345(-8bp)

TCTGATGGA**GTGTGCCTTAGA**AGgtaagatacatctctgattaattcagtaatcacaatcct

Wild	TCTGATGGAGTGTGCTTAGAGGTGCAGAAGgtaagatacatctctgattaattcagtaa
ihb345(-8bp)	TCTGATGGAGTGTGCTT-----AGAAGgtaagatacatctctgattaattcagtaa
	*****
Wild	tcacaatcct
ihb345(-8bp)	tcacaatcct
	*****

**Reference:**

None

