

## *morc2*<sup>ihb383/+</sup> (CZRC catalog ID: CZ1335)

### Nature of the mutation

Between 170 bp to 183 bp of the wild-type *morc2* coding sequence, ACCTGAGAGGCGG, 13bp were deleted in exon 5.

### Sense Strand Sequence

tggatgtcaaaggggcaaaaacagcccctaacataattaacgtgtagtcgattgtccagatcgattgtgaataaaaataagattgcca  
caaaaatcatactatttctgaaacacagagaaccaaatttagcctcaaaatcctcccaaaagtggatgaaaacacccccaacaccac  
acaagggtaaggaatacaatgtcaacaaatgtaataattcatctttttctgtccaatcagAGAAGAGACCGGACCTGA  
GAGGCGGGTTTATGCTTTGTTTCCTTGATGATGGCACTGGAATGGAGCCCAgtgagtaa  
aacaaaaaacctcaaacctcaaaaatgattgttttccacttagtctataaatatcactattcaagtgatgacagtggtctgtttgaac  
agGTGAAGCCACGCATGTCATCCAGTTTGGAAAATCTAGCAAACGATTCCCAGAGT  
CCA

**Uppercase:** Exon/coding sequence

**Lowercase:** intron/noncoding sequence

**atcg:** Forward/Reverse primer

**atcg:** Crispr/cas9 target site

### Genotyping assay

#### Primers:

**morc2\_forward:** 5' TGGATGTCAAAGGGGCAAAA 3'

**morc2\_reverse:** 5' TGGACTCTGGGAATCGTTT 3'

#### PCR program:

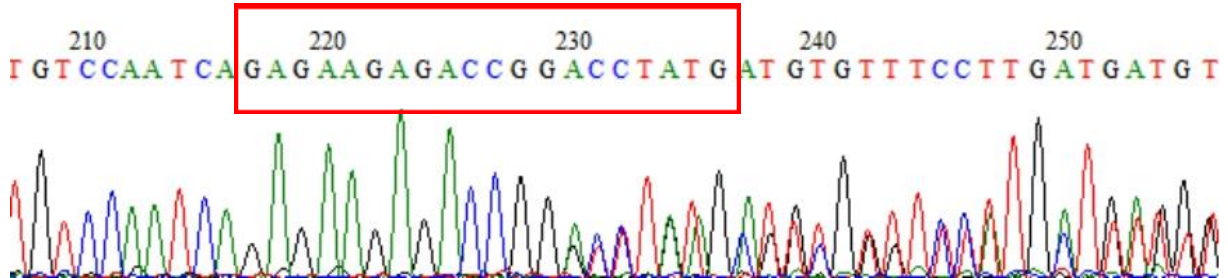
95°C	5min	} 30 Cycles
95°C	30 sec	
60°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

**Product size: 474 bp**





**The sequencing results of the CZ1335:**



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WT          acaagggttaaggaaatacaatgtcaacaaatgtaatatcatctttttctgtccaat
ihb383      acaagggttaaggaaatacaatgtcaacaaatgtaatatcatctttttctgtccaat
*****

WT          cagAGAAGAGACCGGACCTGAGAGGCGGTTTATGCTTTGTTTCCTTGATGATGGCACTG
ihb383      cagAGAAGAGAC-----CGGTTTATGCTTTGTTTCCTTGATGATGGCACTG
*****

WT          GAATGGAGCCCA
ihb383      GAATGGAGCCCA
*****

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**Reference:**

None

