



***morc2*^{ihb382/+} (CZRC catalog ID: CZ1334)**

Nature of the mutation

Between 160 bp to 177 bp of the wild-type *morc2* coding sequence, AGAGACCGACCTGAGA, 17bp were deleted in exon 5.

Sense Strand Sequence

tggatgtcaaaggggcaaaaacagcccctaacataattaacgtgtagtcgattgtccagatcgattgtgaataaaaataagattgcca
ccaaaaatcatactatttgcagaacacagagaaccaaattagcctcaaaatcctcccaaaagtggatgaaaacacccccaacaccac
acaagggtaaggaatacaatgtcaacaaatgtaataattcatctttttctgtccaatcagAGAAGAGACCGGACCTGA
GAGGCGGGTTTATGCTTTGTTTCCTTGATGATGGCACTGGAATGGAGCCCAgtgagtaa
aacaaaaaacctcaaacctcaaaaatgattgttttccacttagtctataaatatcactattcaagtgatgacagtgggtctgtttgaac
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' TGGACTCTGGGAATCGTTTG 3'

PCR program:

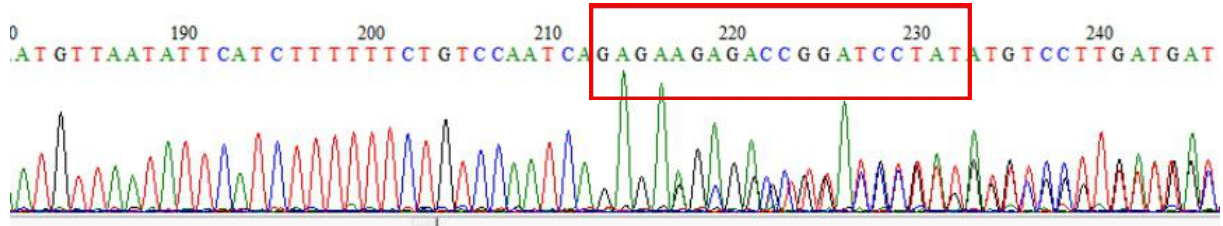
95°C	5min	} 30 Cycles
95°C	30 sec	
60°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

Product size: 474 bp





The sequencing results of the CZ1334:



```

WT          acaagggttaaggaaatacaatgtcaacaaatgtaaatattcatctttttctgtccaat
ihb382     acaagggttaaggaaatacaatgtcaacaaatgtaaatattcatctttttctgtccaat
*****

WT          cagAGAAGAGACCGACCTGAGAGCGGGTTTATGCTTTGTTTCCTTGATGATGGCACTG
ihb382     ca-----gAGAGCGGGTTTATGCTTTGTTTCCTTGATGATGGCACTG
**                               *****

WT          GAATGGAGCCCA
ihb382     GAATGGAGCCCA
*****
  
```

Reference:

None

