

## *trim47*<sup>ihb82/+</sup> (CZRC catalog ID: CZ187)

### Nature of the mutation

Between 216 bp to 224 bp of the wild-type *trim47* coding sequence, GATGTGG, is deleted. The mutated *trim47* codes for a truncated protein containing 195 aa, of which 479 aa are identical to wildtype *trim47*.

### Sense Strand Sequence

tgctcccacgtgactgaacctggaagtgagtccagaatgggctctgtctCTCTCTCTCCTCCGTCTAGAGTCGCTTG  
TGGCGCTGTAAAGCAGTAACACGGTTTAGGGAAACATGGCCACCGCCGGAGATTCGCG  
AGGAGAGCTTCAGAAGGAACTGGTTTGCTCCATTTGCCCTCGATTACTTCGACGACCCT  
GTCATTTTAAAATGCGGCCACAATTTCTGCCGCATGTGCATTTTGATGCACTGGGAGGA  
AAATGGAGGCGATGATGTGGGTTACCAGTGTCCGGAGTGCAGGATGgtgctggtttgtttgataa  
acgctgctcgattccgggctgcttggttacagttttatfaacgtagacacattctcgtttaattcctgcagaatgacaaaaaccgactaactgtta  
ctgtaaatgtttatgttgaagtggttgtgcgcgctttatccgtgagatacaaatctccgtgcttgcggtttgtcagcacagcaccagcagctctc  
gctgctggttaagcatgtttgactctttgcag

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

### **Primers:**

**trim47\_forward:** 5' AGTAACACGGTTTAGGGAA 3'

**trim47\_reverse:** 5' GCTGCTGGTGCTGTGCTGAC 3'

### **PCR program:**

95°C 5min

95°C 30 sec

53°C 30 sec

72°C 30 sec

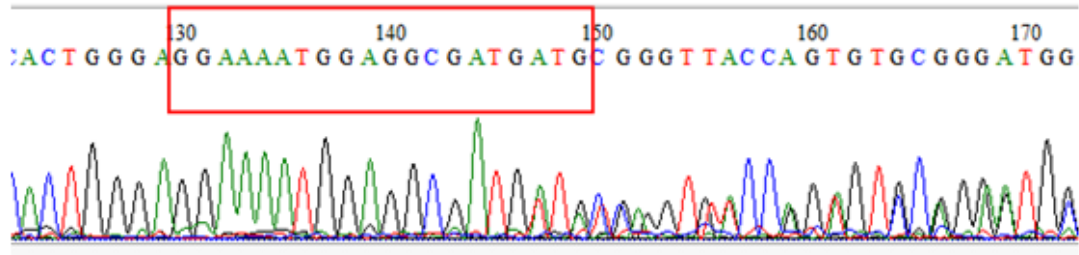
72°C 8min

4°C hold

} 30 Cycles

**Product size: 419 bp**

**The sequencing results of the CZ187: (Original TA Cloning )**



CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

```

WT          tgtctcccacgtgactgaacctggaagtgagtcagaatgggctctgtctCTCTCTCTCC
CZ187 (+/-) tgtctcccacgtgactgaacctggaagtgagtcagaatgggctctgtctCTCTCTCTCC
*****

WT          TCCGCTAGAGTCGCTTGTGGCGCTGTAAGCAGTAACACGGTTTAGGAAACATGGCCA
CZ187 (+/-) TCCGCTAGAGTCGCTTGTGGCGCTGTAAGCAGTAACACGGTTTAGGAAACATGGCCA
*****

WT          CCGCCGAGATTCGCGAGGAGAGCTTCAAGGAACTGGTTGCTCCATTGCTCGATT
CZ187 (+/-) CCGCCGAGATTCGCGAGGAGAGCTTCAAGGAACTGGTTGCTCCATTGCTCGATT
*****

WT          ACTTCGACGACCCTGTCATTTAAAATGCGGCCACAATTTCTGCCGCATGTGCATTTGA
CZ187 (+/-) ACTTCGACGACCCTGTCATTTAAAATGCGGCCACAATTTCTGCCGCATGTGCATTTGA
*****

WT          TGCCTGGGAGGAAAATGGAGGCCGATGATGTGGTTACCAGTGTCCGGAGTGCAGGATGg
CZ187 (+/-) TGCCTGGGAGGAAAATGGAGGCCGAT-----GTTACCAGTGTCCGGAGTGCAGGATGg
*****

WT          tgcgtggtttgttttgataaacgctgctcgattccgggctgcttggttacagttttatt
CZ187 (+/-) tgcgtggtttgttttgataaacgctgctcgattccgggctgcttggttacagttttatt
*****

WT          aacgctagacacattctcgtttaattcctgcagaatgacaaaaccgactaactgttact
CZ187 (+/-) aacgctagacacattctcgtttaattcctgcagaatgacaaaaccgactaactgttact
*****

WT          gtaaatgtttatggttaagtgtttgtcggcgtttatccgtgagatacaaatctccgt
CZ187 (+/-) gtaaatgtttatggttaagtgtttgtcggcgtttatccgtgagatacaaatctccgt
*****

WT          gttgcccgtttgtcagcacagcaccagcagcttctcgtgctgctttaaagcatgtttgtac
CZ187 (+/-) gttgcccgtttgtcagcacagcaccagcagcttctcgtgctgctttaaagcatgtttgtac
*****

WT          tctttgcag
CZ187 (+/-) tctttgcag
*****
    
```

**Reference:**

None