

## *trim47*<sup>ihb86/+</sup> (CZRC catalog ID: CZ189)

### Nature of the mutation

Between 215 bp to 221 bp of the wild-type *trim47* coding sequence, TGATG, is deleted. The mutated *trim47* codes for a truncated protein containing 78 aa, of which 479 aa are identical to wildtype *trim47*.

### Sense Strand Sequence

tgctcccacgtgactgaacctggaagtgagtccagaatgggctctgtctCTCTCTCTCCTCCGTCTAGAGTCGCTTG  
TGGCGCTGTAAAGCAGTAACACGGTTTAGGGAAACATGGCCACCGCCGGAGATTCGCG  
AGGAGAGCTTCAGAAGGAACTGGTTTGCTCCATTTGCCCTCGATTACTTCGACGACCCT  
GTCATTTTAAAATGCGGCCACAATTTCTGCCGCATGTGCATTTTGATGCACTGGGAGGA  
AAATGGAGGCGATGATGTGGGTTACCAGTGTCCGGAGTGCAGGATGgtgctggtttgtttgataa  
acgctgctcgattccgggctgcttggttacagttttatfaacgctagacacattctcgtttaattcctgcagaatgacaaaaaccgactaactgtta  
ctgtaaatgtttatgttgtaagtggttgtgctgctgttatccgtgagatacaaatctccgtgcttgcggtttgtcagcacagcaccagcagctctc  
gctgctggttaagcatgtttgtactctttgcag

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

Genotyping assay

### **Primers:**

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

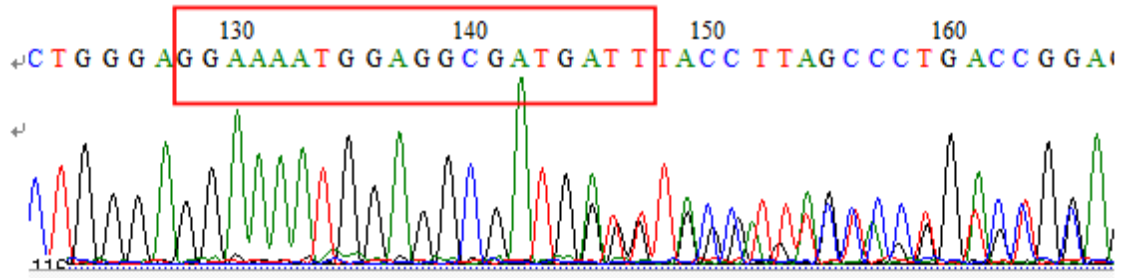
**trim47\_reverse:** 5' GCTGCTGGTGCTGTGCTGAC 3'

### **PCR program:**

95°C 5min  
95°C 30 sec  
53°C 30 sec  
72°C 30 sec } 30 Cycles  
72°C 8min  
4°C hold

**Product size: 419 bp**

**The sequencing results of the CZ189 (+/-):**



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

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WT          tgtctcccacgtgactgaacctggaagtgagtccagaatgggctctgtctCTCTCTCTCC
CZ189 (+/-) tgtctcccacgtgactgaacctggaagtgagtccagaatgggctctgtctCTCTCTCTCC
*****

WT          TCCGCTAGAGTCGCTTGTGGCGCTGTAAGCAGTAACACGGTTTAGGAAACATGGCCA
CZ189 (+/-) TCCGCTAGAGTCGCTTGTGGCGCTGTAAGCAGTAACACGGTTTAGGAAACATGGCCA
*****

WT          CCGCCGAGATTCCGAGGAGAGCTTCAGAAGGAACTGGTTTGTCCATTTGCCTCGATT
CZ189 (+/-) CCGCCGAGATTCCGAGGAGAGCTTCAGAAGGAACTGGTTTGTCCATTTGCCTCGATT
*****

WT          ACTTCGACGACCCTGTCATTTTAAAATGCGGCCACAATTCTGCCGATGTGCATTTTGA
CZ189 (+/-) ACTTCGACGACCCTGTCATTTTAAAATGCGGCCACAATTCTGCCGATGTGCATTTTGA
*****

WT          TGCCTGGGAGGAAAATGGAGGCGATGATGTGGTTACCAGTGTCCGGAGTGCAGGATGg
CZ189 (+/-) TGCCTGGGAGGAAAATGGAGGCGA-----TGGGTTACCAGTGTCCGGAGTGCAGGATGg
*****

WT          tgcgtggtttgtttgataaacgctgctcgattccgggctgcttggttacagttttattt
CZ189 (+/-) tgcgtggtttgtttgataaacgctgctcgattccgggctgcttggttacagttttattt
*****

WT          aacgctagacacattctcgtttaattcctgcagaatgacccaaaccgactaactgttact
CZ189 (+/-) aacgctagacacattctcgtttaattcctgcagaatgacccaaaccgactaactgttact
*****

WT          gtaaagtgttatggtgtaagtgtttgtgcggcgtttatccgtgagatacaaatctccgt
CZ189 (+/-) gtaaagtgttatggtgtaagtgtttgtgcggcgtttatccgtgagatacaaatctccgt
*****

WT          gcttgccgtttgtcagcacagcaccagcagcttctcgtgctgctttaaagcatggttgac
CZ189 (+/-) gcttgccgtttgtcagcacagcaccagcagcttctcgtgctgctttaaagcatggttgac
*****

WT          tctttgcag
CZ189 (+/-) tctttgcag
*****
    
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**Reference:**

None