

## *namptb*<sup>ihb93/+</sup> (CZRC catalog ID: CZ190)

### Nature of the mutation

Between 644 bp to 651 bp of the wildtype *namptb* coding sequence, TGG, is mutated into ACAGCCTACT. The mutated *namptb* codes for a truncated protein containing 266 aa, of which 498 aa are identical to wildtype *namptb*

### Sense Strand Sequence

ccctggtctaagtaaagtaatatagacgtcattgagtaaattttgaaccccgccaaacccctccctcttaagaaaatggtatttttcacaatt  
atftaaattagtaatttagcaaaggcttctcctcaaagtgaggtaaatatctctatattgatcaacaatgcgatcagtattctcaataggtaata  
ttgtgtcaacatcacagaccccaaatggtgtagaacctgagaaggcacagatcagtggtccagctttacaataaaacagtcctgatgggttt  
agtttgaagggggggtcatgacaattgtgagccatctttagtctcctctgacgtctgtgatttgtgtacactctgtctcgcagACGAT  
GCTGGTCCAAATGTGGTATCCCA**TCACCGTGGCAACAATCTCC**AGGGAGTTCAAAA  
GATTCTGGCCAAGCACCTGAAGGCCACGTCAGGGAACCTGGAGAGTCTGGACCTCAA  
ACTGCACGATTTTCGGCTACAGAGGAGTGTCTTCACAGGAGgtacagtgacatggatcaataaattcac  
ttctg**ttcaggacagtggtgttta**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### Genotyping assay

#### Primers:

**namptb\_forward**: 5' CCCTGGTCTAAGTCAAAGTA 3'

**namptb\_reverse**: 5' TAAACACCACTGTCCTGAAC 3'

#### PCR program:

95°C 5min

95°C 30 sec

58°C 30 sec

72°C 30 sec

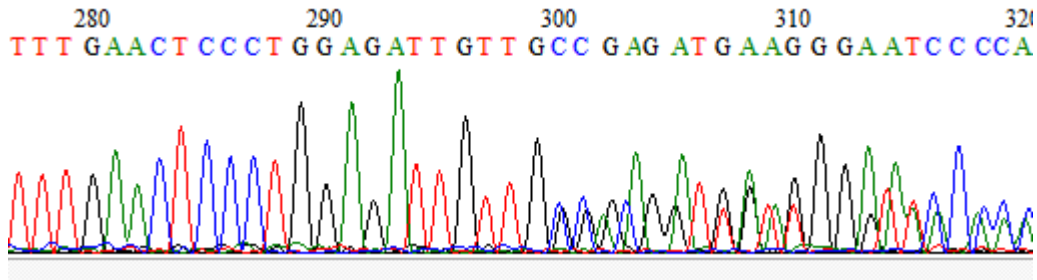
72°C 8min

4°C hold

} 30 Cycles

**Product size: 596 bp**

**The sequencing results of the CZ190:**



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

```

WT          cccctggtcctaagtc...
CZ190 (+/-) cccctggtcctaagtc...
*****

WT          cccctccctccttaag...
CZ190 (+/-) cccctccctccttaag...
*****

WT          aaaggcttctctcca...
CZ190 (+/-) aaaggcttctctcca...
*****

WT          attctcaatatggtc...
CZ190 (+/-) attctcaatatggtc...
*****

WT          gaaggcacagatcag...
CZ190 (+/-) gaaggcacagatcag...
*****

WT          gaaaggggggtcat...
CZ190 (+/-) gaaaggggggtcat...
*****

WT          gtgtgtacactctgt...
CZ190 (+/-) gtgtgtacactctgt...
*****

WT          GCAACAATCTCCAG...
CZ190 (+/-) GCAACAATCTCCAG...
*****

WT          AACCTGGAGAGTCT...
CZ190 (+/-) AACCTGGAGAGTCT...
*****

WT          GAGgtacagtggac...
CZ190 (+/-) GAGgtacagtggac...
*****
    
```

**Reference:**

None