

namptb^{ihb83/+} (CZRC catalog ID: CZ188)

Nature of the mutation

Between 643 bp to 651 bp of the wild-type *namptb* coding sequence, ACCGTGG, is deleted. The mutated *namptb* codes for a truncated protein containing 495 aa, of which 498 aa are identical to wildtype *namptb*.

Sense Strand Sequence

ccctggtctaagtaaagtaatatagacgtcattgagtaaattttgaaccccgccaaacccctccctcttaagaaaatggtatttttcacaatt
atftaaatttagtaatttagcaaaggcttctcctccaaagtgaggtaaatatctctatattgatcaacaatgcgatcagtattctcaataggtaata
ttgttgcaacatcacagaccccaaatggtgtagaacctgagaaggcacagatcagtggtccagctttacaataaacagtcctgatgggttt
agtttgaaaggggggcatgacaattgtgagccatctttagtctcctctgacgtctgtgattgtgtgtacactctgtctcgcagACGAT
GCTGGTCCAAATGTGGTATCCCA**TCACCGTGGCAACAATCTCC**AGGGAGTTCAAAAA
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

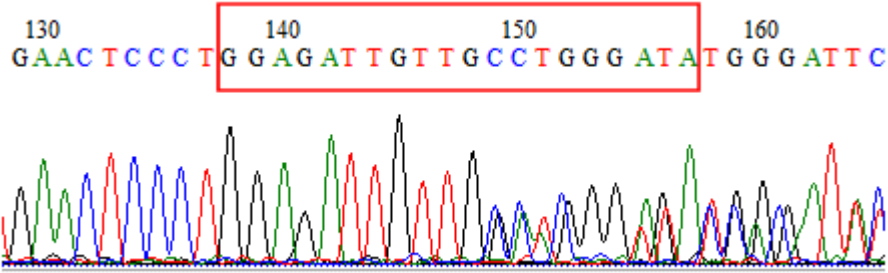
72°C 8min

4°C hold

} 30 Cycles

Product size: 596 bp

The sequencing results of the CZ188:



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

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WT          ccctggtctaagtcaaagtaatatagacgtcattgagtaaattttgaaccccgccaac
CZ188 (+/-) ccctggtctaagtcaaagtaatatagacgtcattgagtaaattttgaaccccgccaac
*****

WT          cccctccctcttaagaaaatgtgattttctcacaattattttaaatttagtaatttagc
CZ188 (+/-) cccctccctcttaagaaaatgtgattttctcacaattattttaaatttagtaatttagc
*****

WT          aaaggcttctctccaaagtgaggtcaatatcttctatattgatcaacaatgcgatcagt
CZ188 (+/-) aaaggcttctctccaaagtgaggtcaatatcttctatattgatcaacaatgcgatcagt
*****

WT          attctcaatatggtcaatatgttgtcaacatcacagaccccaaatggtgtagaacctga
CZ188 (+/-) attctcaatatggtcaatatgttgtcaacatcacagaccccaaatggtgtagaacctga
*****

WT          gaaggcacagatcagtggtccagctttacaaataaaacagtcctgatgggttttagttt
CZ188 (+/-) gaaggcacagatcagtggtccagctttacaaataaaacagtcctgatgggttttagttt
*****

WT          gaaaggggggtcatgacaattgtgagccatcttagtctcctctgacgtctgtgtgatt
CZ188 (+/-) gaaaggggggtcatgacaattgtgagccatcttagtctcctctgacgtctgtgtgatt
*****

WT          gtgtgtacactctgtctcgcagACGATGCTGGTCCAAATGTGGTATCCCATCACCCTGG
CZ188 (+/-) gtgtgtacactctgtctcgcagACGATGCTGGTCCAAATGTGGTATCCCATC-----
*****

WT          CAACAATCTCCAGGGAGTTCAAAAAGATTCTGCCAAGCACCTGAAGGCCACGTCAGGGA
CZ188 (+/-) CAACAATCTCCAGGGAGTTCAAAAAGATTCTGCCAAGCACCTGAAGGCCACGTCAGGGA
*****

WT          ACCTGGAGAGTCTGGACCTCAAACCTGCACGATTCGGCTACAGAGGAGTGTCTTCACAGG
CZ188 (+/-) ACCTGGAGAGTCTGGACCTCAAACCTGCACGATTCGGCTACAGAGGAGTGTCTTCACAGG
*****

WT          AGgtacagtggacatggatcaataaattcacttcctgttcaggacagtggtgttta
CZ188 (+/-) AGgtacagtggacatggatcaataaattcacttcctgttcaggacagtggtgttta
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Reference:

None