

## ***mstnb*<sup>ihb167/+</sup> (AB) (CZRC catalog ID: CZ 295)**

### **Nature of the mutation**

Between 32bp to 37bp of the wild-type *mstnb* coding sequence, 6bp is deleted and 26bp is inserted. The mutated *mstnb* codes for a truncated protein containing 60 aa, of which 1125 aa are identical to wildtype *mstnb*.

### **Sense Strand Sequence**

ctgCGAAAGAAGTCCAGCTctgtccattaggtttattgtgccagctcagccaatcattgaatcttacgacacaatagagtgccaaagttgcagt  
ataaaaagccttgccgaatttaagcatgacATCTACTTGTCCGGTGC GTGGTGAGGTTTCATTTCCATAGC  
AAATCAGAACATCAAACATCCTTTAGCACGCCTTGGAACATGCATTTTACACAGGTTT  
TAATTTCTCTAAGTGTATTAATTGCATGTGGTCCAGTGGGTTATGGAGATATAACGGC  
GCACCAGCAGCCTTCCACAGCCACGGAGGAAAGCGAGCAGTGTTCCACATGTGAGTT  
CAGACAACACAGCAAGCTGATGAGACTGCATGCCATCAAGTCCCAAATTCTTAGCAA  
ACTC**CGACTCAAGCAGGCTCCAA**

**atcg** : Forward/Reverse primer

### **Genotyping assay**

#### **Primers:**

**CZ295\_forward:** 5' CTGCGAAAGAAGTCCAGCTCT 3'

**CZ295\_reverse:** 5' TTGGAGCCTGCTTGAGTCG 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: 419 bp**

**The sequencing results of the CZ295(-/-):**

WT -ctgCGAAAGAAGTCCAGCTCTGTCCATTAGGTTTATTGTTGCCAGCTCAGCCAATCATT  
 CZ295 (-/-) TCTGCGAAAGAAGTCCAGCTCTGTCCATTAGGTTTATTGTTGCCAGCTCAGCCAATCATT  
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WT gaatcttaCGACACAATAGAGTGGCCAAAGTTGCAGTATAAAAAGCCTTGCCGAATTTAA  
 CZ295 (-/-) GAATCTTAAGACACAATAGAGTGGCCAAAGTTGCAGTATAAAAAGCCTTGCCGAATTTAA  
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WT gcatgacATCTACTTGTCCGGTGCCTGGTGAGGTTCAATTCATAGCAAAATCAGAACATC  
 CZ295 (-/-) GCATGACATCTACTTGTCCGGTGCCTGGTGAGGTTCAATTCATAGCAAAATCAGAACATC  
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WT AAACATCCTTTAGCAAGCCTTGAACATGCATTTTACACAGGTTTAAATTTCTCTAAAGTG  
 CZ295 (-/-) AAACATCCTTTAGCAAGCCTTGAACATGCATTTTACACAGGTTTAAATTTCTCTAAATT  
 \*\*\*\*\*.\*

WT T-----ATTAAATTGCATGTGGTCCAGTGGGTTATGGAGATATAAC  
 CZ295 (-/-) TTAATTTGTTAATGTGTTTCTTAATTGCATGTGGTCCAGTGGGTTATGGAGATATAAC  
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WT GGGCACCAGCAGCCTTCCACAGCCACGGAGGAAAGCGAGCAGTGTCCACATGTGAGTT  
 CZ295 (-/-) GGGCACCAGCAGCCTTCCACAGCCACGGAGGAAAGCGAGCAGTGTCCACATGTGAGTT  
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WT CAGACAACACAGCAAGCTGATGAGACTGCATGCCATCAAGTCCAAAATCTTAGCAAAC  
 CZ295 (-/-) CAGACAACACAGCAAGCTGATGAGACTGCATGCCATCAAGTCCAAAATCTTAGCAAAC  
 \*\*\*\*\*

WT CCGACTCAAGCAGGCTCCAA-  
 CZ295 (-/-) CCGACTCAAGCAGGCTCCAAA  
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**Reference:**

Gao Y, Dai Z, Shi C, Zhai G, Jin X, He J, Lou Q and Yin Z (2016) Depletion of Myostatin b Promotes Somatic Growth and Lipid Metabolism in Zebrafish. *Front. Endocrinol.* 7:88. doi: 10.3389/fendo.2016.00088