国家斑马鱼资源中心 CHINA ZEBRAFISH RESOURCE CENTER
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# *net1*$^{ioz5/+}$（AB） (CZRC catalog ID: CZ 287)

## Nature of the mutation

Between 272 bp to 291 bp of the wild-type net1 coding sequence, GCCAGACCCTCCAGGCCTCA, is deleted; and C, is inserted.

## Sense Strand Sequence

catagGAACCCTGTACTAAGCGTGTGCGGCCTCTTGGCCGAGTGACCTCGCTGGCGAAC
CTCATCTCTCCCGTGAAGAATGGGGCCGTCCGACGCTTCGGCCAGACCCTCCAGGCCT
CATTCCGGGGTGACGGGCGGTCTCCGGGCGTGCCCCAGCAGAAGCCATGCAGTAAGG
CTGCAGCTCCCACACCACCGAAGCGCCGGAACAGCACGCTCTGGTCAGAGACCCTAG
ACGTCCACCAGAAAGGAACGTTTTCCACCAAAGAGATTAAGAGACAAGAGgtgagta

Uppercase: Exon/coding sequence
Lowercase: intron/noncoding sequence
atcg : Forward/Reverse primer

## Genotyping assay

**Primers:**
**net1_forward:** 5’ CATAGGAACCCTGTACTAAG 3’
**net1_reverse:** 5’ TACTCACCTCTTGTCTCTTA 3’

**PCR program:**

95℃ 5min
95℃ 30 sec
55℃ 30 sec } 30 Cycles
72℃ 30 sec
72℃ 8min
4℃ hold

**Product size: 288 bp**

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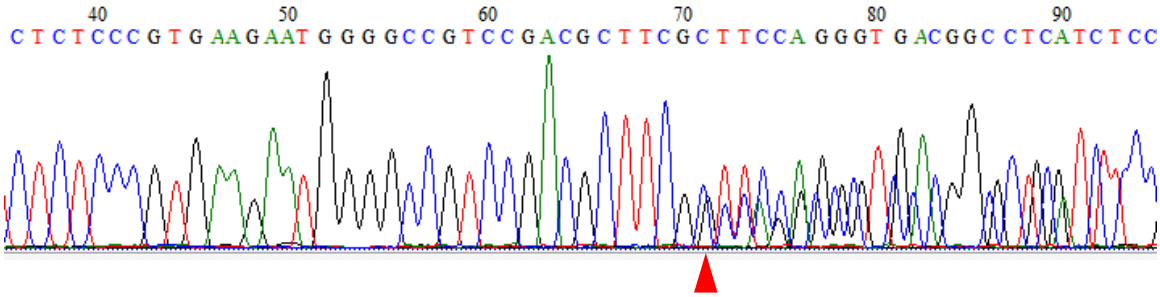
**The sequencing results of the CZ287(+/-):**

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WT          catagGAACCCTGTACTAAGCGTGTGCGGCCTCTTGGCCGAGTGACCTCGCTGGCGAACC
CZ287       catagGAACCCTGTACTAAGCGTGTGCGGCCTCTTGGCCGAGTGACCTCGCTGGCGAACC
            ************************************************************

WT          TCATCTCTCCCGTGAAGAATGGGGCCGTCCGACGCTTCGGCCAGACCCTCCAGGCCTCAT
CZ287       TCATCTCTCCCGTGAAGAATGGGGCCGTCCGACGCTTCG----------------CT
            ***************************************                  *

WT          TCCGGGGTGACGGGCGGTCTCCGGGCGTGCCCCAGCAGAAGCCATGCAGTAAGGCTGCAG
CZ287       TCCGGGGTGACGGGCGGTCTCCGGGCGTGCCCCAGCAGAAGCCATGCAGTAAGGCTGCAG
            ************************************************************

WT          CTCCCACACCACCGAAGCGCCGGAACAGCACGCTCTGGTCAGAGACCCTAGACGTCCACC
CZ287       CTCCCACACCACCGAAGCGCCGGAACAGCACGCTCTGGTCAGAGACCCTAGACGTCCACC
            ************************************************************

WT          AGAAAGGAACGTTTTCCACCAAAGAGATTAAGAGACAAGAGgtgagta
CZ287       AGAAAGGAACGTTTTCCACCAAAGAGATTAAGAGACAAGAGgtgagta
            ************************************************
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## Reference:

Wei S, Dai M, Liu Z, Ma Y, Shang H, Cao Y, Wang Q. The guanine nucleotide exchange factor Net1 facilitates the specification of dorsal cell fates in zebrafish embryos by promoting maternal β-catenin activation. Cell Res. 2017 Feb;27(2):202-225. doi: 10.1038/cr.2016.141.