

nup37^{tsu9i1d/+} (CZRC catalog ID: CZ1766)

Nature of the mutation

1bp deletion and 9bp insertion, Between 134bp to 135bp of the wild-type *nup37* coding sequence, T is changed to CACTTGGCA in exon1.

Sense Strand Sequence

GCCAGATGATACAGTCCGCTCTGCAAGCTACACAGTGCCCTGCGAGGACTATGTCC
ACGTAGTGGAGTTCAGTCCATATGATTGTGGCTCACCTGCGTCACTCTTGGCATA
GGAGGAAACAAGTATGTGGTCGTCGGCACTTGTCGTTTTAAGgtaagtacacaagaccgatctt
tgcagagtcaaatcctgaagagctacctgactgcaggttaataatcaagaaaaagagaatgagaaacccttcaggatggtggatgcc
aggagacaattggcatcctgtccactgagggtgggataat

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crisper/cas9 target site

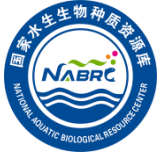
>WT

GCCAGATGATACAGTCCGCTCTGCAAGCTACACAGTGCCCTGCGAGGACTATGT
CCACGTAGTGGAGTTCAGTCCATATGATTGTGGCTCACCTGCGTCACTCTTGGCA
TACGGAGGAAACAAGTATGTGGTCGTCGGCACTTGTCGTTTTAAGgtaagtacacaagac
cgatcttgcagagtcaaatcctgaagagctacctgactgcaggttaataatcaagaaaaagagaatgagaaacccttcaggatggt
ggatgccaggagacaattggcatcctgtccactgagggtgggataat

> tsu9i1d

GCCAGATGATACAGTCCGCTCTGCAAGCTACACAGTGCCCTGCGAGGACTATGT
CCACGTAGTGGAGTTCAGTCCATATGATTGTGGCTCACCTGCGTCACTCTTGGCA





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China Zebrafish Resource Center (CZRC)
National Aquatic Biological Resource Center (NABRC)

TACGGAGGAAACAAGTATGTGGCACTTGGCACGTCGGCACTTGTCGTTTTAAGgt
aagtacacaagaccgatctttgcagagtcaaatcctgaagagctacctgactgcaggttaataatcaagaaaagagaatgagaaa
cccttcaggatggtggatgccaggagacaattggcatcctgtccactgagggtgggataat

Reference

Shen, W., Gong, B., Xing, C., Zhang, L., Sun, J., Chen, Y., Yang, C., Yan, L., Chen, L., Yao, L., Li, G., Deng, H., Wu, X., Meng, A. (2022) Comprehensive maturity of nuclear pore complexes regulates zygotic genome activation. *Cell*. 185(26):4954-4970.e20

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