



## *nup133*<sup>tsu8d/+</sup> (CZRC catalog ID: CZ1759)

### Nature of the mutation

8bp deletion, Between 60bp to 67bp of the wild-type *nup133* coding sequence, GATCTGCT is deleted in exon13.

### Sense Strand Sequence

acaaatgattaattgcgaataatctttgccacacaacctaaagtgttaccttgtgtattttatggaatatgtgtctatctataataatcttgc  
catgaaattggcataagttggcaatatggcaataataaacaagtaaatctgctctgcttgtgtttgtgtgaggtcagtaactcactgatgatga  
tggtgtgtctaatctgcagTCATGATCTGGTCGGAGCTCAGAGTATGGTGGACGAGCTTTTCCC  
CAGTGATGGAGAAGGATCTGCTGATCTGGATACTGTGGTCACTCAGATTGATCTGG  
ATCTGGTGGATGATTATCCTGCATGTGACCCTCGCTGGGCCGAATCTGTTCTGACG  
gtgagacatgagcacacaagtacatttagttttgagctgattagttagatcttcgaaagcttaaa

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

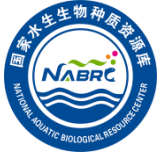
atcg: Crisper/cas9 target site

>WT

acaaatgattaattgcgaataatctttgccacacaacctaaagtgttaccttgtgtattttatggaatatgtgtctatctataataatcttgc  
catgaaattggcataagttggcaatatggcaataataaacaagtaaatctgctctgcttgtgtttgtgtgaggtcagtaactcactgat  
gatgatggtgtgtctaatctgcagTCATGATCTGGTCGGAGCTCAGAGTATGGTGGACGAGCTT  
TTCCCCAGTGATGGAGAAGGATCTGCTGATCTGGATACTGTGGTCACTCAGATTG  
ATCTGGATCTGGTGGATGATTATCCTGCATGTGACCCTCGCTGGGCCGAATCTGTT  
CCTGACGgtgagacatgagcacacaagtacatttagttttgagctgattagttagatcttcgaaagcttaaa

> tsu8d





国家水生生物种质资源库国家斑马鱼资源中心  
China Zebrafish Resource Center (CZRC)  
National Aquatic Biological Resource Center (NABRC)

acaaatgattaattgcgaataatctttgcccaaacctaaagtgttaccttgtgtattttatggaatatgtgtctatctataataatcttgc  
catgaaattggcataagttggcaatatggcaataaataacaagtaaatctgctctgcttgtgtttgtgtgaggtcagtaactcactgat  
gatgatggtgtgtctaactctgcagTCATGATCTGGTCGGAGCTCAGAGTATGGTGGACGAGCTT  
TTCCCCAGTGATGGAGAAGGATCTGGATACTGTGGTCACTCAGATTGATCTGGAT  
CTGGTGGATGATTATCCTGCATGTGACCCTCGCTGGGCCGAATCTGTTTCCTGACG  
gtgagacatgagcacacaagtacatttagttttgagctgattagttagatcttcgaaagcttaa

### 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

**Address:** Institute of Hydrobiology, CAS  
No. 7 Donghu South Road, Wuhan 430072, China  
**Email:** zebrafish@ihb.ac.cn

**Tel:** 86-27-68780570  
**Web:** www.zfish.cn



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