国家斑马鱼资源中心 CHINA ZEBRAFISH RESOURCE CENTER
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tgfb1a $^{tsu8td/+}$ (CZRC catalog ID: CZ408)

Nature of the mutation

Between 85 bp to 92 bp of the wild-type *tgfb1a* coding sequence, GAGGTGGT is deleted in exon 1. The mutated *tgfb1a* codes for a truncated protein containing 33 aa, of which 377 aa are identical to wildtype *tgfb1a*.

Sense Strand Sequence

cattATGAGGTTGGTTTGCTTGGTGCTGACCGCCCTGTGTTTGGTCACGGGAACGGGCAG
CATGTCCACCTGTAAGACTCTGGATTTGGAGGTGGTGAGGAAGAAGCGGATTGAGGC
TATTCGGGGTCAGATCCTCAGTAAACTGCGCATGGCTAAAGAGCCTGAATCCGGAGC
GGACGACGACGGACAGAAGATCCCGGATTCCTTGCTTTCGTTATATAATAGCACTGTT
GAACTGAGCGAAGAAATGAAGACGAAGATCGTCCCTGTGCAGGATGAGGATGAGGA
CTATTTTGGCAAGGAG

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

Genotyping assay

Primers:
CZ408_forward: 5'　CATTATGAGGTTGGTTTGCT　3'
CZ408_reverse: 5'　CTCCTTGCCAAAATAGTCCT　3'

PCR program:

95℃ 5min
95℃ 30 sec
58℃ 30 sec　} 30 Cycles
72℃ 30 sec
72℃ 8min
4℃ hold

Product size: 304 bp

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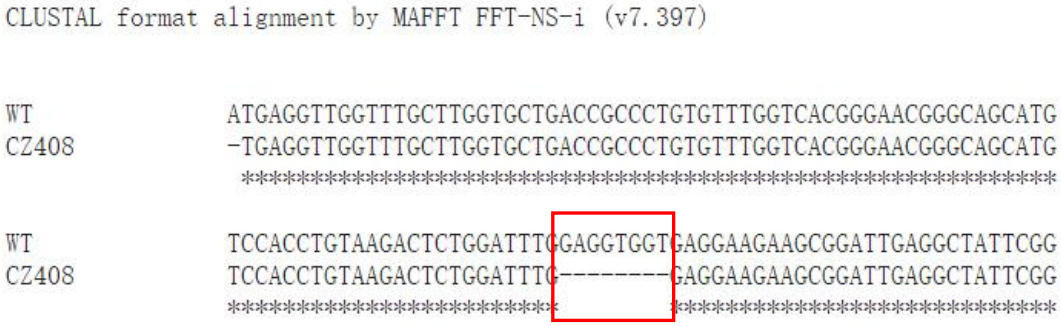
The sequencing results of the CZ408:



Reference:

Xing, C., Gong, B., Xue, Y., Han, Y., Wang, Y., Meng, A., Jia, S. (2015) TGFβ1a regulates zebrafish posterior lateral line formation via Smad5 mediated pathway. Journal of molecular cell biology. 7(1):48-61