



elovl2^{ihb332/+} (CZRC catalog ID: CZ1234)

Nature of the mutation

20bp deletion, Between 27bp to 46bp of the wild-type *elovl2* coding sequence, TTACCGTCTTCAGTGTCAGG is deleted in exon4.

Sense Strand Sequence

ATACCCGCGTGAGAGGATGGCTGCTGCTGGATTCTACACACC AACATTTTTGCTC
ACCATCACCTACCTCCTAACAATCTACCTGGGAACAAAATACATGAGAAACAGACC
AGCATACTCACTGAAAAATGTTTTACTGCTGTACAACCTTCTCTGTTACTGTATTGTC
TTTCTACATGCTGGTTGAGgtaagtgagcatacagtttggatcttaaatagcagtcctatgctcatctgccaatgt
cgagtctcttaagcgattacctaatgctgtgcttcatgtgttgtagCTGATATCAGCAGTCTGGTCTGCA GGT
TACCGTCTTCAGTGTCAGG CACTGGACGAAGTTGGTGAAGCAGATATCAGGgtaagaa
atacagcacatcccattttcgttatgctgctcagaccattttgtt gctcgtgaaaatactgatgctgtaggtactgatacaagtatgacg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: Crisper/cas9 target site

Genotyping assay

Primers:

CZ1234_forward: 5'- CTGCTGGATTCTACACACC-3'

CZ1234_reverse: 5'- GCATCAGTATTTTCACGAGC-3'

PCR program:

95°C 5min
95°C 30sec
55°C 30sec
72°C 30sec } 30 cycles
95°C 10min
4°C hold

Product size: 354p





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)

Reference:

Liu C , Ye D , HP Wang, et al. Elovl2 But Not Elovl5 Is Essential for the Biosynthesis of Docosahexaenoic Acid (DHA) in Zebrafish: Insight from a Comparative Gene Knockout Study[J]. Marine Biotechnology, 2020, 22(5):613-619.

