

ZKO454

Target Position: exon 5

Sense Strand Sequence

TCATGGAGACCTGAATGG CCTGAGTGACAATTCTGAACGTCTCCTTAGCCAACCAGATCCTGA
TGGCCTCTGGACCTCACTGTCAGCAGAGCTTCTCCA GCCCTCAAGgtatgcaccacaacaaatca
cattactttagaggaaccagattattttagaatatcggcacactacattgtggaaaaagattcattagttttagctctgt
atagacattttcatgtctgctgcatggagggcaccatagcgaccagcgtctccggtagaatgctaaaaacttcagttac
agcgtgtacaactggtaatttgcggtctgaaaatgggtttcaattacgttttaattggataacagagtgtttttagacacaa
aacttagaaatgtgtctgttaaagccgt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO454a: 1bp insertion

CLUSTAL format alignment by MAFFT E-INS-i (v7.215)

```
WT          TCTGGACCTCACTGTCAGCAGAGCTTCTCCAGCC-CTTCAAGGTATGCACCACAACAAAT
ZKO454a     TCTGGACCTCACTGTCAGCAGAGCTTCTCCAGCCTCTTCAAGGTATGCACCACAACAAAT
*****
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WT          CACCATTACT
ZKO454a     CACCATTACT
*****
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ZKO454b: 3bp deletion 2bp insertion

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

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WT          TCTGGACCTCACTGTCAGCAGAGCTTCTCCAGCCCTTCAAGGTATGCACCACAACAAATC
ZKO454b     TCTGGACCTCACTGTCAGCAGAGCTTCTCCA-TACTTCAAGGTATGCACCACAACAAATC
***** . *****
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