

ZKO451

Target Position: exon 10

Sense Strand Sequence

```
ccagcagacaacagtctagaccttttgcttcgcctttctgcacaccatccagaatgaaaagttcacagatgctccagtcca
ctatgaacacccccatggaaggactcgagagttttgcattctctttgtcactaataaacggttatgtacaagtccaggtc
aaattcagctaacaatttttcttctgtctgatccagACTACATTTCAAGAGGATATCAGTGATGCAGAAAAGG
TATATCAGGAATGTCAGCAGAGCGGCCACTTTTCGTTTAGCGACTGCATCCCTCCTGCTCGCAT
GAAGCACCTCAATAAAATTGGTGAAGGGACATTTGGAGAGGTCTTCTCAACTATAAATGATTC
CAATGAGAGTGTGCTCTCAAAGtaagtgacaatttagtagtaatacaatgtcattgtgaagcatagtaactt
gtgtctgtcacatcacaggatg
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO451a: 1bp insertion

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

```
WT          CCTCAATAAAATTGGTGAAGGGACATTTGGAGAGGTCTTCTCAACTATAAATGATTCCA
ZKO451a     CCTCAATAAAATTGGTGAAGGGACATTTGGGAGAGGTCTTCTCAACTATAAATGATTCCA
*****
```

ZKO451b:8bp insertion

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

```
WT          CACCTCAATAAAATTGGTGAAGGGACATTTG-----GAGAGGTCTTCTCAACTATAA
ZKO451b     CACCTCAATAAAATTGGTGAAGGGACATTTGAGACACATGAGAGGTCTTCTCAACTATAA
*****
```

```
WT          ATGATTCCAATGAGAGTG
ZKO451b     ATGATTCCAATGAGAGTG
*****
```