

ZKO225

Target Position: exon 2

Sense Strand Sequence

gaaagttgtgattggaattggaaaggggaattaatgacagcgaattgtcagtttgggtgtctatcttttaagtattttgat
ggactaacataaactatttcttatgtgcagTGATTGTGAGATATCCACGTGAACCA**GTGGAGGAGATGG**
AAGGCCGTGTGCTGTCTTTCAAGTGCAGATTGGAGTACAAGACAGAGAATTGTGATATTCTG
CCAAATGGTGGCGTGTAGAAAGCGAGACAATTTCTGAGCCATTACAGACACAAACAGATTT
CTAATCACAGTTAATGAAACAAAAAAGATGAACAAAGG**CACAGGGACATTGTCTTGAC**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO225a: 4bp deletion, 2bp insertion

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

```
WT          GACTAACATAAACTATTTCTTATGTGCAGTGATTGTGAGATATCCACGTGAACCAGTGGA
ZKO225a     GACTAACATAAACTATTTCTTATGTGCAGTGATTGTAAGATATCAACGTGAACCG--TGA
*****.***** **
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WT          GGAGATGGAAGGCCGTGTGCTGTCTTTCAAGTGC
ZKO225a     GGAGATGGAAGGCCGTGTGCTGTCTTTCAAGTGC
*****
```

ZKO225b: 12bp insertion, 1bp deletion

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

```
WT          GACTAACATAAACTATTTCTTATGTGCAGTGATTGTGAGATATCCACGTGAACC-----
ZKO225b     GACTAACATAAACTATTTCTTATATGCAGTGATTGTGAGATATCCACGTGAACCTGAGGA
*****.*****
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WT          ----AGTGGAGGAGATGGAAGGCCGTGTGCTGTCTTTCAAGTGC
ZKO225b     GTTCACGTGGAAGATGGAAGGCCGTGTGCTGTCTTTCAAGTGC
*****.*****
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