

ZKO986

Target Position: exon 4

Sense Strand Sequence

tggagtgtactgctcggctaattaaaattgcatgcctgtgtttatacattccgaatgtgctgctgtggctgattgcattac
atgcatgtctctgtctgcctcctcactcagCCAATCATCTTGGTGCTCCTGGATATCACTCCCATGCTGCCG
GTGCTGGATGGAGTCGTCATGGAGCTGCAGGATTGTGCTCTTCTTCTGAGAGgtgaggaatt
agctactgctctcatttatggccagatactgtaggtaacaaaaaacacagttaactaatattaatcatcattcttcctg
gttggtt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO986a: 11bp deletion

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

```
WT          TCACTCCCATGCTGCCGGTGCTGGATGGAGTCGTCATGGAGCTGCAGGATTGTGCTCTTC
ZKO986a     TCACTCCCATGCTGCCGGTGCTGG-----ATGGAGCTGCAGGATTGTGCTCTTC
*****
```

```
WT          CTCTTCTGAGA
ZKO986a     CTCTTCTGAGA
*****
```

ZKO986b: 4bp deletion, 10bp insertion

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

```
WT          ATCACTCCCATGCTGCCGGTGCTGGATGGA-----GTCGTCATGGAGCTGCAGGATTGT
ZKO986b     ATCACTCCCATGCTGCCGGTGCTGGATGGATGGAGTCGTTTCATGGAGCTGCAGGATTGT
*****
```

```
WT          GCTCTTCCTC
ZKO986b     GCTCTTCCTC
*****
```