

## ZKO500

Target Position: exon 2

Sense Strand Sequence

ATTGTGATGCCTCCTCCTCAAGAAAGTAAACAATCCCCACAAGATTTCTATGCAAGGCAAGAG  
AAGCATTATCAAGGGCAGCCATTTTCAGCTACAGATGTTGCAACAATCAGCAAACAGCATGAAT  
GGTCTGGATCCAACCAAGGTTCCGGCTGTTCCAAAACCCCTTGTGTCCAACAGAAGTCTAAA  
CCCTTCTTTAGCGGTCATAATCAAGGCCAAAAAACTTTTTTCACCAGTTAGAGGTGTCTCAAGC  
CC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO500a: 7bp deletion 21bp insertion

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

```
WT          GCAAACAGCATGAATGGTCTGGATC-----CACACCAAGGTTCCGGCTGTTC
ZKO500a     GCAAACAGCATGAATGGTCTGGATCAGAAATAACTGAGCAATTCTGAGGTTCCGGCTGTTC
*****
* . .*****
```

```
WT          CAAAACCCCTTGTGTCCAA
ZKO500a     CAAAACCCCTTGTGTCCAA
*****
```

### ZKO500b: 2bp insertion

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

```
WT          GCAAACAGCATGAATGGTCTGGATCCAC--ACCAAGGTTCCGGCTGTCCAAAACCCCTTG
ZKO500b     GCAAACAGCATGAATGGTCTGGATCCACAGACCAAGGTTCCGGCTGTCCAAAACCCCTTG
*****
```