

ZKO666

Target Position: exon 2

Sense Strand Sequence

gggatcagccgttgaattagaagcacagttctaaccttttctctttgttttcactccacagACTTTCTCGACTAATAA
CACGGAGTGTCTAGACTGCTGGAGGAGATTAAGTGTGCCATTGCTCACCAAATGCTCAG
ATGCTGTTCCATTACCTAAACTTGAAAAAGCACCATAGAGAACAAGACCTACCCCGCTT
ATGCCATGACTACTGCCAAGAGTTCTACTACACTTGCCGTGGACACGTACCAAGtaaccaa

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO666a: 3bp deletion, 14bp insertion

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

```
WT          cacagACTTTCTCGACTAATAACACGGAGTGTCTAGACTG-----CTGGAGGA
ZKO666a     cacagACTTTCTCGACTAATAACACGGAGTGTCTAGACTGATTAAGTGTGCCCTGAGGA
*****
*          *****
```

```
WT          GATTAAGTGTGCCATTGCT
ZKO666a     GATTAAGTGTGCCATTGCT
*****
```

ZKO666b: 2bp insertion

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

```
WT          TCGACTAATAACACGGAGTGTCTAGACTGCTG--GAGGAGATTAAGTGTGCCATTGCT
ZKO666b     TCGACTAATAACACGGAGTGTCTAGACTGCTGGAGAGGAGATTAAGTGTGCCATTGCT
*****
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