

## ZKO366

Target Position: exon 5

Sense Strand Sequence

aattacctgtctgtttagACACAGAATCCAGTCCAATCAGGAGAAACCCTGCTGGTAACG  
TGGCCCGTCCAATGGTTCAAAGATTACCAGAACCACAGGATGTCATCGACTGTCTAGAGCTCA  
ACACCTTCGACACACCACCGTATTACTCCACGTCCTCTCAGAGCTTCAGGAACACTATTGAGGg  
taaacaacactacttcattaacaatacatttgaggcaaaagataaaaggcctgctgccagccaaccacctgcag  
acatatttgcaggagtttttcaactttaattggtttctgtggtgtcaccagGTTACAGCGCTCCCAGGGTAAC  
TATGACCAGTAGTGAGGAGTCTGCAaacc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO366a: 5bp deletion,7bp insertion

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

```
WT          TCGACACACCACCGTATTACTCCACGTCCTCTC--AGAGCTTCAGGAACACTATTGAGGG
ZKO366a     TCGACACACCACCGTATTACTCCACGTCCTCTTCAGGAACTTCAGGAACACTATTGAGGG
*****.  .**.*
```

```
WT          TAAAACAAACACTACTTCATT
ZKO366a     TAAAACAAACACTACTTCATT
*****
```

### ZKO366b: 1bp insertion

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

```
WT          TCGACACACCACCGTATTACTCCACGTCCTCTC-AGAGCTTCAGGAACACTATTGAGGGT
ZKO366b     TCGACACACCACCGTATTACTCCACGTCCTCTCAAGAGCTTCAGGAACACTATTGAGGGT
*****
```