

## ZKO268

Target Position: exon 3

Sense Strand Sequence

taaagagcagttggacaggtgtacctaataaagtagccggtgagtttatattgctgataaaattaaactacttagtgatgatga  
ttagccaataaaaataatgttgccttcatgctgaatcaccaatggacagtttaaggtgaatgtatttctctatagaaacttga  
tttatgatctgttttcagGAGGTCCCCTGATGTTGGTAAATGCTGGGAGGAGAAGAAGATAAAG  
ACCCAGAGGCAGAAAAGGAGAAGGAGGAGGAGAGACA**GGAAGCTCTGAGACAGGAAGA**  
GGAGGAGAGGAAGGCCAAACACGCCAAGATGGAGGCCGAGCGAGAGAACATTCGGCAGG  
GCATCAGAGACAAGgtgagagagcagcgggaacactcgttacagtcacgaagttcggctttttttttccacatc  
caciaagggaga

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO268a: 1bp insertion

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

```
WT          GGAGGAGGAGAGACAGGAAGCTCTGAGACA-GGAAGAGGAGGAGAGGAAGGCCAAACACG
ZKO268a     GGAGGAGGAGAGACAGGAAGCTCTGAGACAGGAAGAGGAGGAGAGGAAGGCCAAACACG
*****
```

### ZKO268b: 4bp deletion

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

```
WT          GGAGGAGGAGAGACAGGAAGCTCTGAGACAGGAAGAGGAGGAGAGGAAGGCCAAACACGC
ZKO268b     GGAGGAGGAGAGACAGGAAGCTCTGAGAC-----AGAGGAGGAGAGGAAGGCCAAACACGC
*****
```