

## ZKO18

Target Position: exon 6

Sense Strand Sequence

caccatacacttgatgattcacacacaacacaaacaataacaggtgaggccctttataacatatagtctttaataattacc  
tgtaatttctcctccagGATCTTGGGTCACCTGCGACTGATCTGCCGGACGTCCTTGGGAACCTGAGA  
GCCAACCTGTGCAGAAACACCCCGCGGCCGCTGCAGGTACACC CCGCAGGTGGAGGAGCTCA  
CCTGGGGCTACGAGCTGGAGAAAACCTTCCTCACTCGGTCTACAGATACGACTATATATTAGC  
AGCGGATGTGGTTTATCATCACGATTACCTGGCAGAACTACTGGTCACCATGCGGCACTTCTG  
CCAGCCGGAACCACTCATATGGGCCAACAAAACCCGCTTCGGCACTGACCTGCTGTTG  
TGGAGAACTTTAAAAGAGCTTCAACA CAAGATTACTTGCAGACGACGGAGAGGT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO18a: 22bp deletion

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

```
WT          GAACCTGAGAGCCAACCTGTGCAGAAACACCCGCGGCCGCTGCAGGTACACCCCGCAGGT
ZKO18a      GAACCTGAGAGCCAACCTGTGCAGAAACA-----CCCGCAGGT
            *****
            *****
```

```
WT          GGAGGAGCTC
ZKO18a      GGAGGAGCTC
            *****
```

### ZKO18b: 61bp deletion

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

```
WT          TCACTGCGACTGATCTGCCGGACGTCCTTGGGAACCTGAGAGCCAACCTGTGCAGAAACA
ZKO18b      TCACTGCGACTGATCTGCCGGACGTCCTTG-----
            *****
```

```
WT          CCCGCGGCCGCTGCAGGTACACCCCGCAGGTGGAGGAGCTCACTGGGGCTACGAGCTGG
ZKO18b      -----GGAGGAGCTCACTGGGGCTACGAGCTGG
            *****
```