

## ZKO209

Target Position: exon 3

Sense Strand Sequence

tactggagatgtttctgtgactcgagGCTCCCTCAGATCAGAGAAGCGTTTCAGTATCTGAGAGAGATCCTGCAGCA  
GTTGAACTCTCAGCGCAGCTCCATTGAGGAGGACATTCCTCGTCCTTCAGCGAACTGCACAAAACCCTCG  
ACACCAGGAAGAGCGTCCGTGCTGATGGAGCTGGAGGTACGTACGGACTCAAGCAAAAAGtaatgtgccaga  
agattcaactcatcactacttcattagagtttggtgtttacattagtgtctaatacattgaacttacagcttatcagaatgttttat  
ttttatattaatgtttatgttttttcaaagttctagcaatgtcatt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO209a: 11 deletion

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

```
WT          CTCGTCCTTCAGCGAACTGCACAAAACCCTCGACACCAGGAAGAGCGTCCTGCTGATGGA
ZKO209a     CTCGTCCTTCAGCGAACTGCACAAAACCCTC-----GAGCGTCCTGCTGATGGA
*****
```

```
WT          GCTGGAGGTCAC
ZKO209a     GCTGGAGGTCAC
*****
```

### ZKO209b: 6 deletion, 5 insertion

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

```
WT          CTCGTCCTTCAGCGAACTGCACAAAACCCTCGACACCAGGAAGAGCGTCCTGCTGATGGA
ZKO209b     CTCGTCCTTCAGCGAACTGCACAAAACCCTCGA-AGAGCGAAGAGCGTCCTGCTGATGGA
***** * . *****
```

```
WT          GCTGGAGGTCAC
ZKO209b     GCTGGAGGTCAC
*****
```