

## ZKO807

Target Position: exon3

Sense Strand Sequence

ctgagactgaggacttgaaactgttgaataaaatctttatTTTTgtttgagaacaaaggaatctcgtaacttgataatattt  
cagttgaaccattaaaaatgtttgggtattttcgggattgttgtgtctaaggacgatgaagaagctctcagattttacttaa  
aatattttatattttatattttgaagatcttgaggatttgaattaactataaccattttcttgggtgaaactaacagtttaact  
tttttttttagtagATCTCCCCAAATGCTGATTTAAAGGAATCGCTGTCAGTGGGA**GATATGCAACA**  
**GTTTCAGCC**TGGATCTCCTAGAATGCTCTCTGGACTTCATCAACAGGTGCCCAATCCATGGGCC  
TCTCAACCCAACCCAGTACTGCTGTCAGACAGCATCCAGCACAGTTTCAGTACCTTCCTTATT  
CTCAGCAACCGCAGgttagaaatgtcactaattctaaaattcttttttggttccctgaagaagctttgacctaaatg  
atcctaaaagatt**gtttatttgcgtaagaac**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO807a: 2bp deletion, 1bp insertion

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

```
WT          GCTGTCAGTGGGAGATATGCAACAGTTTCAGCCTGGATCTCCTAGAATGCTCTCTGGACT
ZKO807a     GCTGTCAGTGGGAGATATGCAACAGTTTC-TCCTGGATCTCCTAGAATGCTCTCTGGACT
*****
```

### ZKO807b: 2bp deletion, 3bp insertion

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

```
WT          ATCGCTGTCAGTGGGAGATATGCAACAGTT-TCAGCCTGGATCTCCTAGAATGCTCTCTG
ZKO807b     ATCGCTGTCAGTGGGAGATATGCAACAGTTAGGAGCCTGGATCTCCTAGAATGCTCTCTG
*****
```