

## ZK0806

Target Position: exon3

Sense Strand Sequence

CAAAATCCTCCTCAACTATCCTGATCACGTTCAAGAGACTTAAACCAAGgtaaagtatgttaattcaa  
cagaaaactaagttaaacattgatgtattttgttcttaatttcatatttcatgttgattgtccatttcagACATCATCAAT  
CATCATGAGATCCCTCATTTTGCTGGCATTGCTCATTGGAGTTGCTTATTGCGCTCCGgtatatgat  
ttatattcactttttaatatatatatttagatatttagtcgactaggatagcataatatataatgcaaacattgtgatactaa  
ttttctgtttctgaccacagCAAGTGATGTATTATGAGGTAGAGTACAAACCTGTAATGGCTCCACA  
Ggttagtttggtccaaatcaaaaattatacaattatttatgtagcagcctaaatgaagc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0806a: 4bp deletion

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

```
WT          CAAGTGATGTATTATGAGGTAGAGTACAAACCTGTAATGGCTCCACAGGTTAGTTGGTC
ZK0806a     CAAGTGATGTATTATGAGGTAGAGTACAAACCTGTAATGGCT----AGGTTAGTTGGTC
*****
```

```
WT          CAAATCAAAAATTTATACAAT
ZK0806a     CAAATCAAAAATTTATACAAT
*****
```

### ZK0806b: 3bp deletion, 5bp insertion

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

```
WT          CAAGTGATGTATTATGAGGTAGAGTACAAACCTGTAATGGC-TC-CACAGGTTAGTTGG
ZK0806b     CAAGTGATGTATTATGAGGTAGAGTACAAACCTGTAATGGCATCTTACAGGTTAGTTGG
***** ** .*****
```

```
WT          TCCAAATCAAAAATTTATACAAT
ZK0806b     TCCAAATCAAAAATTTATACAAT
*****
```