

## ZK0897

Target Position: exon 1

Sense Strand Sequence

GCGGCAGCAAAGTTAACCAAGACCGCGTTAAGAGACCCATGAACGCCTTTATGGTGTGGTC  
TCGGGGTCAGCGCAGAAAAATGGCTCAGGAGAACCCAAAGATGCACAACCTCCGAGATCAG  
CAAGCGCCTCGGGGCGGAGTGGAAACTCATGTCCGAGGCGGAAAAGCGACCCTTCATCGA  
CGAGGCGAAACGGCTGCGGCCATGCACATGAAGGAGCATCCGGATTACAAGTACCGGCC  
CCGGAGGAAGACCAAGACGCTGCTCAA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0897a: 25bp deletion, 18bp insertion

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

```
WT          GGAGAACCCAAAGATGCACAACCTCCGAGATCAGCAAGCGCCTCGGGGCGGAGTGGAAACT
ZK0897a     GGAGAACCCAAAGATGCACAACCTCCGAGATGGAAAA---CTCAGGAGTGA---AAACT
*****
***** .. ** *.. **.*.*** *****

WT          CATGTCCGAGGCGGAAAAGCGACCC
ZK0897a     CATGTCCGAGGCGGAAAAGCGACCC
*****
```

### ZK0897b: 5bp deletion, 7bp insertion

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

```
WT          GCACAACCTCCGAGATCAGCAAGCGCCTCGGGGCGG---AGTGGAAACTCATGTCCGAGGCG
ZK0897b     GCACAACCTCCGAGATCAGCAAGCGCCTCGGAAAAAATAGTGGAAACTCATGTCCGAGGCG
*****
*****.. .. *****

WT          GAAAAGCG
ZK0897b     GAAAAGCG
*****
```