

## ZK0895

Target Position: exon 4

Sense Strand Sequence

gtgtatgggggtgggccaataatcaccttaatctagatactcaatagtaaagttacattttaactgtaaaaaacaactattgg  
gataaaatgtcatgtccccacttaaatggtgaagtaaagtatgttggatgtgtatttttgattgtagAGTCCGGTGGAG  
GGAGTAACTCGGTGTGTTCCCGTCAATCGTCTTCTCTGCGGATCAAGTCTTTCGACTCGCTCAA  
CTGTTCGTCCACTCACAGGAGATCCTCCAGGCACAAGTTCAACCAGTACCGCAGTCTGg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0895a: 5bp deletion,+4bp insertion

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

```
WT          AACTCGGTGTGTTCCCGTCAATCGTCTTCTCTGCGGATCAAGTCTTTCGACTCGCTCAAC
ZK0875a     AACTCGGTGTGTTCCCGTCAATCGTC-AATTGCGGATCAAGTCTTTCGACTCGCTCAAC
***** *.
```

### ZK0895b: 20bp deletion

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

```
WT          GGAGGGAGTAACTCGGTGTGTTCCCGTCAATCGTCTTCTCTGCGGATCAAGTCTTTCGAC
ZK0895b     GGAGGGAGTAACTCGGTGTGTTCCCG-----TCAAGTCTTTCGAC
*****
```

```
WT          TCGCTCAACTGTTCGTCCAC
ZK0895b     TCGCTCAACTGTTCGTCCAC
*****
```