

## ZK0995

Target Position: exon 1

Sense Strand Sequence

Ctgactccgatccgtgttccagtgttctggttggttgatccactccatattttacctcagacctctgtgtgtgtctgacgcag  
aacTGAAAGCTCTGCACTCACAATCACGCCAAAAAATGTGTTCAAACAGTTGTGTTTTAGTC  
TAGTTACATGTTAAAATGTACTAATAATAAATCAGGAATGATGAACGTGTCCGTGAAGAGTCT  
CCGCGGTGTGAGCAGAACATGGCGGAGTTTTTCTCCAGGCAGGGAATGAATGTGTTTGACA  
GGAGCATGAAGCGCAGGCAGAA**GGATTGGGCTTCATCTTACTGG**ACAGCAGCAAATACGAT  
TACCTTCGAGAAGAGgtcagataatgtgcacaatgtttgtttaatattagagcaaaaagggttggtgtgtgtgaact  
tgtgtttttgtgtgtttgcagGTGGGCAGCAGAGTGCGGACAGAGTTTACGAT**GTTCGCAAG**gtcacta  
tgct

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZK0995a: 2bp deletion

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

```
WT          AAGCGCAGGCAGAAGGATTGGGCTTCATCTTACTGGACAGCAGCAAATACGATTACCTT
ZK0995a     AAGCGCAGGCAGAAGGATTGGGCTTCATC--TACTGGACAGCAGCAAATACGATTACCTT
*****
```

### ZK0995b: 4bp deletion

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

```
WT          AAGCGCAGGCAGAAGGATTGGGCTTCATCTTACTGGACAGCAGCAAATACGATTACCTT
ZK0995b     AAGCGCAGGCAGAAGGATTGGGCTTCATCT----TGGACAGCAGCAAATACGATTACCTT
*****
```

```
WT          CGAG
ZK0995b     CGAG
*****
```