

## ZK0846

Target Position: exon5

Sense Strand Sequence

ggcttcaactgtatatccactg cagtgttaaactgatgtgtgttttcgtgtgtgtgtgctttatagAGCGAGTTGAAA  
TTCAAATGTGAGAATGACATTAGATGTAAGCAGCTGATGACAAAACCATCTAGTAATGgtaagttt  
gagcgtataattgtggatcgaatgaagatataatatacgaattataagtaaggctatatatgtttgtttctgttttaag  
GGTTGCTGACGGGGCGGTGTGTGCACTTAATACAACCTCACAAAACCTTGTGAGATCAAAGGA  
TGGTGCCCTGCAGAGATTGACGAAGTCCAGCCgtaagtctgcatacaaatgaataaatgaaacgatgtgtg  
aatgatgtctgaaaggatcgtttcttctccttgctcagAAACCCCATGATGGAGGTGGAGAACTTCACC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0846a:8bp deletion

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

```
WT          TCACAAAACCTTGTGAGATCAAAGGATGGTGCCCTGCAGAGATTGACGAAGTCCAGCCGTA
ZK0846a     TCACAAAACCTTGTGAGATCAAAGGATGGT-----GAGATTGACGAAGTCCAGCCGTA
*****
```

```
WT          AGTCTGCA
ZK0846a     AGTCTGCA
*****
```

### ZK0846b: 5bp deletion

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

```
WT          AACTTGTGAGATCAAAGGATGGTGCCCTGCAGAGATTGACGAAGTCCAGCCGTAAGTCT
ZK0846b     AACTTGTGAGATCAAAGGATGGTGCCCT-----GATTGACGAAGTCCAGCCGTAAGTCT
*****
```