

## ZK0803

Target Position: exon2

Sense Strand Sequence

gtcaacttcattttctccagGCCCAAGGAGGTGTTTGTGATTAACCCCGCGGGACTTCTGTACTATCA  
GTGGCTGCTCATAATCACATTCCCTGTCATGTACAATTGGACAGTTATAATTGCACGgtaataatct  
gatgttcataagatgaagaacacaaatagaatacataaaagaatctcctttactccctcaaccataagctaataatgc  
atccataccagacagagcagatgcattttaataactctggagtgtattcatatgatgtctgttcacacagAGCTTGTTTT  
GAGGAGCTTCAGCATGAATATCTACTGACGTGGTTCCTCCTGGACTACACCTCTGACCTGCTTT  
ACTTGGCTGATATGGCATTTCAGAGCACGAACAGgtactgtacatcactgttatttcagatgtttcaatgaag  
gcataaacctgtgatacgacttgttccaaacctgtttgagttattttgtttgagataatttgaaaaatgctggctgctagcac  
ccattgacttccatagatatttttctacaatgaaagtcaatgggtcccggaatcagcattttcaagagagagtaaaca  
atg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0803a: 5bp deletion

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

```
WT          TGTTTTGAGGAGCTTCAGCATGAATATCTACTGACGTGGTTCCTCCTGGACTACACCTCT
ZK0803a     TGTTTTGAGGAGCTTCAGCATGAATATCTACTGACGTGGTTCCTC-----CTACACCTCT
*****
WT          GACCTGCTTTACTTGGCTGATATGGCATTTCAGAGCACGAA
ZK0803a     GACCTGCTTTACTTGGCTGATATGGCATTTCAGAGCACGAA
*****
```

### ZK0803b: 1bp deletion

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

```
WT          AGCATGAATATCTACTGACGTGGTTCCTCCTGGACTACACCTCTGACCTGCTTTACTTGG
ZK0803b     AGCATGAATATCTACTGACGTGGTTCCTCCT-GACTACACCTCTGACCTGCTTTACTTGG
*****
```