

## ZK0911

Target Position: exon 1

Sense Strand Sequence

gccccgtatgacaactgaagcgaatcaagttattaaccgtaacagtgttgctgtgggaaaaataatattATGG  
CAGCGCTGCTTTTCGTGCTGTTTTGGCTGCTGTGGAGACAATAACAGTGGCCACGTAACACTG  
AAGGAAATGCCACGGTTCAGCTGGACTCATCACATGGgtgagtgaatctgtcatttcagacac  
attataataacaaaaacactgataaaatcataaacggcagtgctgttctatacactgtaaaaaatgctggattcca  
tacaattcattcatgctgtccaacacaaatcgattaagttaacgtaaacctttccacaaatgatgtggattgaacataaaa  
aattaagttgtccaatgaaatcgaagaattgtgtgttctgctcatttaattaagtagattgaacaagtaaatacatata  
ttgtataatcatcaaatcattgtataatcaaaataatcagcaggaatggacaaaatca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0911a: 8bp deletion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

```
WT          CGTAACACTGAAGGAAATGCCACGGTTCAGCTGGACTCATCACATGGGTGAGTGATG
ZK0911a     CGTAACACTGAAGGAAATGCCACGGT-----CACTCATCACATGGGTGAGTGATG
*****
```

```
WT          AATCTGTC
ZK0911a     AATCTGTC
*****
```

### ZK0911b: 5bp deletion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

```
WT          GCCACGTAACACTGAAGGAAATGCCACGGTTCAGCTGGACTCATCACATGGGTGAGT
ZK0911b     GCCACGTAACACTGAAGGAAATGCCACG-----GCTGGACTCATCACATGGGTGAGT
*****
```