

## ZK0928

Target Position: between Inon 1 and Exon 1

Sense Strand Sequence

AAGGCTTCAGAATGGGTAGTTTTGCCGTTTTGTTTTCGGCAGTGATGCTTGTTGCGGTTGTAC  
CAGCCTGGACCGtgagtcgctgctatcttgacttaaaaatagctactcaataagtgacctatgtaggatatttcta  
aaaccgaaagtaaactaatcgacgtcattatcgttcctcaagctgcttattactatatatacgatttcataggctgatatgt  
atacaaaaacggcttaaagttaatatgtctgtgtaagttacggctctgtgtttgtttatggcctccctggcttgctcagtga  
atactttcggtttaggaggaaacttctggttcgccatcttaggttatgttgcttgctcctaactactaaactgaaacca  
ttgcttgac

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0928a: 10bp deletion

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

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WT          TCGGCAGTGATGCTTGTTGCGGTGTACCAGCCTGGACCGtgagtcgacctgctatcttg
ZK0928a     TCGGCAGTGATGCTTGTTGCGGT-----TGGACCGtgagtcgacctgctatcttg
*****
*****
```

```
WT          acttaaaaatagctactc
ZK0928a     acttaaaaatagctactc
*****
```