

ZK0903

Target Position: exon 2

Sense Strand Sequence

ttgcctaagcatttccccctgtttctaactgaatgtgttggtttggcagATGAGATTATGCAGCAGGA
GAGCAGTCCTCTGTGTGCCGCAGACATCAGCCCAGACCTCAGGAAACAGTTTGCCTTCTTGT
CTGgtgagtcttctgtagtcaatcccagaatgctttgcatataaatactgttggctcactattacagttttcagag
atgacgttagtcctgtttgaacctgccgcta

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0903a: 6bp deletion, 61bp insertion

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

```
WT          AGCAGTCCTCTGTGTGCCGCAGACATCAGCC-----  
ZK0903a     AGCAGTCCTCTGTGTGCCGCAGACATCAGCTGTTTATGCAGACATCACTGTTTGACATG  
*****.
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```
WT          -----CAGAC-----CTCAGGAAACAGTTTGCCTTCTTGTCTGg  
ZK0903a     ACTGATGATCACAGCAGACATCACTGTTTTTCTCAGGAAACAGTTTGCCTTCTTGTCTGg  
                *****
```

ZK0903b: 6bp deletion, 8bp insertion

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

```
WT          GCAGTCCTCTGTGTGCCGCAGACATCAGCC--CAGACCTCAGGAAACAGTTTGCCTTCTT  
ZK0903b     GCAGTCCTCTGTGTGCCGCAGACATCAGCCATCAGACATCAGGAAACAGTTTGCCTTCTT  
*****
```

```
WT          GTCTGgtg  
ZK0903b     GTCTGgtg  
*****
```