

## ZK0905

Target Position: exon 3

Sense Strand Sequence

cctctggctcattttcacctgcccgctaacacccttttcagcagctctgtgctaaagtcaagcgtttgaacagctggaaacct  
gctgatcctcagagaaatgtgatccttacacttctccataatttcagccatatcaacatctgataaatggataatgatgttct  
gtgaataatgagattacctgtgaaattactcagaattctgttcagagaggagtgtgatgtggtgtaacatctgttctatat  
actgatgtttggaaatggctgatgtgtgctgaatgatcagtggtttgtattgatagcttctgtgtgtttgtgctagGCTTC  
AGAAGAGGTGTCTGAAGTGTCTGGTGGCAATGAAGGAGATCCTGTACGGCACCAATGATAAG  
GAGCCGCACACAGAAACCGTGGCTCAGCTGGCCCAGGAGCTCTACAACAGCAGTCTGCTCAT  
CTCACTAGTGGAGAAcctgcaggtcatcgactttgaggttaggagccttattcaacaatgaagactttgcatgg  
atgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0905a: 12bp deletion, 1bp insertion

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

```
WT          CACCAATGATAAGGAGCCGCACACAGAAACCGTGGCTCAGCTGGCCCAGGAGCTCTACAA
ZK0905a     CACCAATGATAAGGAGCCGCACACAGAAA-----TTGCCCCAGGAGCTCTACAA
*****.*****
```

```
WT          CA
ZK0905a     CA
**
```

### ZK0905b: 9bp deletion, 8bp insertion

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

```
WT          TACGGCACCAATGATAAGGAGCCGCACACAGAAACCGTGGCTCAGCTGGCCCAGGAGCTC
ZK0905b     TACGGCACCAATGATAAGGAGCCGCACACACA-CGTAGCTCAGCTGGCCCAGGAGCTC
***** * * **.******
```