

## ZK0900

Target Position: exon 5

Sense Strand Sequence

tgagctgacctttcagtgccagcgggatgtgtgatgtttctctctctgtctgtagCTGATCATTGATACACCCAC  
CAGTCCTATGACCAGCGGCCTGCCTCTTTTCTTTGTCATCACAGTCACAGCCATTAAACAGgt  
gagagaaaacactctttctttttctataattggtttcttaattgtgtcatcactcatcttctctctctcGTCCTCTCTG  
CAGGGGTACGAGGACTGGATCAGGCACAAAGCGGACAACCTCTGTAAACCAATGTCCGGTC  
CACATCGTCCAGCATGGCAAAG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0900a: 8bp deletion

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

```
WT          ctcatcttctctctctctcGTCCTCTCTGCAGGGGTACGAGGACTGGATCAGGCACAAAG
ZK0900a     ctcatcttctctctctctcGTCCTCTCTG-----CGAGGACTGGATCAGGCACAAAG
*****
```

```
WT          CGGACAAC
ZK0900a     CGGACAAC
*****
```

### ZK0900b: 1bp deletion, 2bp insertion

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

```
WT          cttctctctctctcGTCCTCTCTGCAGGGG-TACGAGGACTGGATCAGGCACAAAGCGGA
ZK0900b     cttctctctctctcGTCCTCTCTGCAGGGGAGACGAGGACTGGATCAGGCACAAAGCGGA
*****
```