

ZK0876

Target Position: exon 4

Sense Strand Sequence

tcgcaaaaatccactatcatgcattattctgagctctgaatagctatctgcttacatcattaatgctagcttcaaagatgta
caggatctgaaactgtacattcatctctctttttgtgcctcaccctccgtttctgcagGAGCTCATCAGAAAAGGC
ATCCCTCATATTTCCGAGCAATCGTTTGGCAGTTGTTATGCAATGCCACTGATATGCCTGTG
AAGAATCAGTATTCTGAACTCTTGAAGATGTCCTCGCCCTGTGAAAACTCATACGCAGAGA
TATCGCCCGCACCTATCCCGAACATGACTTCTTCAAAGGCCAGGACAGCCTGGGACAGGAA
GTGCTGTTAATGTCATGAAGgtgagaaagacagaaacgggtcatgacagcaagag

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0876a: 2bp deletion, 1bp insertion

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

```
WT          AACATGACTTCTTCAAAGGCCAGGACAGCCTGGGACAGGAAGTGCTGTTAATGTCATGA
ZK0876a     AACATGACTTCTTCAAAGGCCAGGACAGCC-AGGACAGGAAGTGCTGTTAATGTCATGA
*****.*****
```

ZK0876b: 8bp deletion, 3bp insertion

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

```
WT          TCCCGAACATGACTTCTTCAAAGGCCAGGACAGCCTGGGACAGGAAGTGCTGTTAATGT
ZK0876b     TCCCGAACATGACTTCTTCAAAGGCCAGGA-----AGTGACAGGAAGTGCTGTTAATGT
***** * *****
```