

ZK0916

Target Position: Exon 1

Sense Strand Sequence

tttacaccaactgtgcctcgcacatctgcctatcatctgagaactgcgctgtgctcaagactgcaggtcagtcctcctcgacc
aggtaacagacATGGGGCTCTGCTCTCTAACACATCAGATCGATGCTTTAAACATCCTAAATGAAC
TGCGAGATCACGGGACGGGCAGTAATAGAGAGGGAGAGGGCCGGTGTCCGGGTGCTTTGG
CGCCGGTAAAGTGGCCGCTCGCCGGGCGATGTGATGAAGGAGCCCCGCAGGCTGAAGAC
GATCGCGGAGAGACACGGGAAACTGCCTTTCGCGACTGCTCGAGATACTGACACAGCTCA
TATCCATCGAAG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0916a: 5bp deletion

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

```
WT          GAGGGCCGGTGTCCGGGTGCTTTGGCGCCGGTAAAGTGGCCGCTCGCCCGGGCGATGTG
ZK0916a     GAGGGCCGGTGTCCGGGTGCTTTGGCGCCGGTAAAGTGGCCGCTC-----GGCGATGTG
*****
```

```
WT          ATGAAGGAGCCCCGCAGGCT
ZK0916a     ATGAAGGAGCCCCGCAGGCT
*****
```

ZK0916b: 4bp deletion

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

```
WT          GAGGGCCGGTGTCCGGGTGCTTTGGCGCCGGTAAAGTGGCCGCTCGCCCGGGCGATGTG
ZK0916b     GAGGGCCGGTGTCCGGGTGCTTTGGCGCCGGTAAAGTGGCCGCT----CGGGCGATGTG
*****
```

```
WT          ATGAAGGAGCCCCGCAGGCT
ZK0916b     ATGAAGGAGCCCCGCAGGCT
*****
```