

ZK0349

Target Position: exon 2

Sense Strand Sequence

aatgttctgttgctctttgtcaaaccaactttgcatgtgctcttcatttcttgagtttgttcaaattacattgtttgtaaca
cagctcatgtgtgttttagGACATCCAACAGCAGTGTGACTTTGTCCTCATGTGCGTCGATGGAGCC
GTGTGTGCAGATGAACATTTCCAGGCACACAGTCATGCTGAACACACCTTCA **GGCGTATGGA**
GGCCTACCTGAGGACCAGGAACTTTGTGACGTTGTGCTTCTCGCTGGAGATCGCAGAATAC
CAGCACACAGgtaataatagtataacttattaacagttattaacactgttttagatgtgtttcatcagtatagcactaa
tatagattaaatgatctctgattattctgagcttctgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0349a: 17bp deletion

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

```
WT          AGGCACACAGTCATGCTGAACACACCTTCAGGCGTATGGAGGCCTACCTGAGGACCAGGA
ZK0349a     AGGCACACAGTCATGCTGAACACACCTTCAG-----TGAGGACCAGGA
*****
```

```
WT          AACTTTGTGACGTTGTGCTT
ZK0349a     AACTTTGTGACGTTGTGCTT
*****
```

ZK0349b: 3bp deletion, 2bp insertion

CLUSTAL format alignment by MAFFT G-INS-i (v7.215)

```
WT          AGGCACACAGTCATGCTGAACACACCTTCAGGCGTATGGAGGCCTACCTGAGGACCAGGA
ZK0349b     AGGCACACAGTCATGCTGAACACACCTTCAGGCGTATGGAGGCCTA-TGGAGGACCAGGA
***** . *****
```

```
WT          AACTTTGTGACGTTGTGCTT
ZK0349b     AACTTTGTGACGTTGTGCTT
*****
```