

ZK0635

Target position: exon3

Sense Strand Sequence

GATGAGCTTAACCGGCCATCCACACCTTCCAGGTGTGCCACGTAATGGAACCAAACCAGAA
CAACTGGCTCAGAACAACTGGATACCCCGTCA GGCTGCGCAGAAGATCTACG TGGAGCTGC
GCTTCACCCTGCGGGACTGCAACAGCATCCCATGGGTCTCTGGCACCTGTAAGGAGACTTTTA
ACCTCCTCTATTTGAGACAGATGAGCCACATGGTGCCAATGCTCATTTTCATCCCAACGACTA
TGCTAAAATTG ATACCATCGCCGAGATGAG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0635a: 17 bp deletion

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

```
WT          AAACTGGATACCCCGTCAGGCTGCGCAGAAGATCTACGTGGAGCTGCGCTTCACCCTGCG
ZK0635a     AAACTGGATACCCCGTCAGGCTGCGCAGAA-----GCTTCACCCTGCG
          *****
          *****
```

```
WT          GGA CTGCAACAGCATCC
ZK0635a     GGA CTGCAACAGCATCC
          *****
```

ZK0635b: 24 bp deletion, 1bp insertion

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

```
WT          CAGAACAAACTGGATACCCCGTCAGGCTGCGCAGAAGATCTACGTGGAGCTGCGCTTCAC
ZK0635b     CAGAACAAACTGGATACCCCGTCAG-----GCTACGCTTCAC
          *****
          ***.*****
```

```
WT          CCTGCGGGACTGCAACAG
ZK0635b     CCTGCGGGACTGCAACAG
          *****
```