

ZKO14

Target Position: exon 11

Sense Strand Sequence

tggcatatcagtcaaaaaggacacatgagctcatgtattggccaaaatctggaccttgtcagtgaggggtgggtccttcg
aaccatatgaacccccgctcatttattgtgaagtgttccatttattgatattattagaagcatgttctgagagatgttct
gattggtgcagATCTCGGTGGAGGAGCAGGGGCGGAGCCTGGTCATTAAGATTGACAGGGAGG
CGGTGATGAAGATCGCAGTAAACGGAGACCTGTTCACCTCTGAATAAAAACATGCACGAGCTG
AACCTGACGGTGG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO14a: 4 bp deletion

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

```
WT          GCGGAGCCTGGTCATTAAGATTGACAGGGAGGCGGTGATGAAGATCGCAGTAA
ZKO14a      GCGGAGCCTGGTCATTAAGATT----GGGAGGCGGTGATGAAGATCGCAGTAA
*****
*****
```

ZKO14b: 14 bp deletion

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

```
WT          GCGGAGCCTGGTCATTAAGATTGACAGGGAGGCGGTGATGAAGATCGCAGTAAACGG
ZKO14b      GCGGAGCCTGGTCATTAAGAT-----TGATGAAGATCGCAGTAAACGG
*****
*****
```