

ZKO781

Target Position: exon 3

Sense Strand Sequence

```
aattgggcttattacaacaaccacattataatgattaacagcagaccaacattgaagtatgtcaagtttaatgtgaatc
ctccagtcgccacattatgctaaattgatccatctgacactttctgcagGTGGAAGAAGAGCTGTTGGAGCA
GGAGTTTCTTGAACGCTGTTTCCAGGAGATGTTGGAGGAGGAGGATCAAGATTGGTTCATTC
CTGCCAGAGACCTTCCATCTGGAGTAGGGCAGATCCAACAGCAGCTCAGCGGCCTGTCCGGTC
AGTGACGGAAACGCCGAAGACATT
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO781a: 1bp insertion

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

```
WT          TTCATTCCTGCCAGAGACCTTCCATCTGG-AGTAGGGCAGATCCAACAGCAGCTCAGCGG
ZKO781a     TTCATTCCTGCCAGAGACCTTCCATCTGGAAGTAGGGCAGATCCAACAGCAGCTCAGCGG
*****
```

ZKO781b: 2bp insertion

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

```
WT          TTCATTCCTGCCAGAGACCTTCCATCTGGA--GTAGGGCAGATCCAACAGCAGCTCAGCGG
ZKO781b     TTCATTCCTGCCAGAGACCTTCCATCTGGAAGGTAGGGCAGATCCAACAGCAGCTCAGCGG
*****
```

ZKO781c: 3bp deletion

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

```
WT          TTCATTCCTGCCAGAGACCTTCCATCTGGAGTAGGGCAGATCCAACAGCAGCTCAGCGGC
ZKO781c     TTCATTCCTGCCAGAGACCTTCCATCT---GTAGGGCAGATCCAACAGCAGCTCAGCGGC
*****
```