

ZKO657

Target Position: exon1

Sense Strand Sequence

CATACATTGGATCGGCTTG TATAGGAACACATCCAACAGTAAGCAGTTTCTGTGGTCTGAT
GGCACCCCATTTTCTTTTCCA ACTGGGATGTTGGTCAGCCC Agtaaagtttacacctatggaggtca
atgtgttatccaatctcaaatggctgaat

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO657a: 9bp insertion

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

```
WT          TGATGGCACCCCATTTTCTTTTCCA-----ACTGGGATGTTGGTCAGCCCAgtaa
new         TGATGGCACCCCATTTTCTTTTCCAAC TTTTACTGGGATGTTGGTCAGCCCAgtaa
*****
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```
WT          agtttacacctatggaggtcaatg
new         agtttacacctatggaggtcaatg
*****
```

ZKO657b: 3bp deletion, 11bp insertion

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

```
WT          TGATGGCACCCCATTTTCTTTTCCAAC-----TGGGATGTTGGTCAGCCCAgtaaa
ZKO657b     TGATGGCACCCCATTTTCTTTTCCAAC TATTGAATTGAAATGTTGGTCAGCCCAgtaaa
*****
```

```
WT          gtttacacctatggaggtcaatg
ZKO657b     gtttacacctatggaggtcaatg
*****
```