

## ZKO1063

Target Position: exon 1

Sense Strand Sequence

CATCAAGCATTTCGTCGGGCCTTAAAACCCCCTTAAACAGACAGAGAAAAACAGGCAACAT  
TTGATTTCTCCAATGGTCTGAATACACTTCCGCCTTATGAACCATGTGTGAGAACTGCGCC  
GAGCTGCTGGAGGTGCTCAATGAGAgtaagtcaacagcatttgttgtttgttttttctcttgtgtccctgtttgt  
agttgtttgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO1063a: 9bp deletion

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

```
WT          CCTTTATGAACCATGTGTGAGAACTGCGCCGAGCTGCTGGAGGTGCTCAATGAGAgtaag
ZKO1063a    CCTTTATGAACCATGTGTGAGAACTGCGCC-----GAGGTGCTCAATGAGAgtaag
*****
```

```
WT          tcaacagca
ZKO1063a    tcaacagca
*****
```

### ZKO1063b: 8bp insertion

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

```
WT          TTATGAACCATGTGTGAGAACTGCGCCGAG-----CTGCTGGAGGTGCTCAATGAGA
ZKO1063b    TTATGAACCATGTGTGAGAACTGCGCCGAGTGTGAGAACTGCTGGAGGTGCTCAATGAGA
*****
```

```
WT          gtaagtca
ZKO1063b    gtaagtca
*****
```