

ZKO663

Target Position: exon 2

Sense Strand Sequence

AAACCCGTGTTTTCTCAAAGCCTTTAAGAAAATGAGCGGAGGAGATGTGGTTACTCGGGGTGGCTCCGAAAGTCTCCA
TGGCTCCGAAAGTCTCCACCTGAAAAAAGTTACGGCGTTATgtaagtaacgttttagttttattcaaatg
caccgacagtgtagtaaccgcaggactgttggggcaagattcatgcaaatttcagtacgctttccaacagca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO663a: 20bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v7.215)

```
WT          GCCTTTAAGAAAATGAGCGGAGGAGATGTGGTTACTCGGGGTGGCTCCGAAAGTCTCCA
ZKO663a     GCCTTTAAGAAAATGAG-----CGGGGTGGCTCCGAAAGTCTCCA
*****
```

```
WT          CCTGAAAAA
ZKO663a     CCTGAAAAA
*****
```

ZKO663b: 3bp deletion

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

```
WT          GCCTTTAAGAAAATGAGCGGAGGAGATGTGGTTACTCGGGGTGGCTCCGAAAGTCTCCA
ZKO663b     GCCTTTAAGAAAATGAGCGGAGGAGATGTGGTT---TCGGGTGGCTCCGAAAGTCTCCA
*****
```

```
WT          CCTGAAAAA
ZKO663b     CCTGAAAAA
*****
```