

ZKO100

Target Position: exon 2

Sense Strand Sequence

ctcgggatcataggagcagtgtagagggacagtaaatacagggataagtagggaagaaatcagaggaatactgtgagga
aagctcgtaatccatggagcagaggggaattgaagcacgcaatgcctcagcagatccacttcacagctctgtagccgatct
cagatcagcttatttctctccaacatttctgtgttcagtGGGACCC**TGATCGGACGATACTGTGGC**TCG
AAGATCCCTCAAAGATCCAGTCCTCCACGGGCCTTCTGTGCTGTCTTCCACACTGACATG
GCTGTGGCCAAAGACGGATTCTCGGCCAGATATAACATGACCCACAAGGAAGTTAGCGACAg
aggtgtcattatttatcttttatgtatatttttgattgcgtcaacacttttaa**cacattgaaggtccatga**

Uppercase: intron/noncoding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO100a: 21bp deletion, 13bp insertion

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

```
WT          tccaacatttccttgtgttcagtGGGACCCTTGATCGGACGATACTGTGGCTCGAAGATC
ZKO100a     tccaacatttccttgtgttcagtGGGACCCTTGGAGG-----GACCCTTGAAGATC
*****
***** .  **      *  ** *****
```

```
WT          CCTCCAAAGATCCAGTCCTCC
ZKO100a     CCTCCAAAGATCCAGTCCTCC
*****
```

ZKO100b: 24bp deletion

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

```
WT          tccaacatttccttgtgttcagtGGGACCCTTGATCGGACGATACTGTGGCTCGAAGATC
ZKO100b     tccaacatttccttgtgttcagtGGGACCCTT-----GATC
*****
*****
```

```
WT          CCTCCAAAGATCCAGTCCTCC
ZKO100b     CCTCCAAAGATCCAGTCCTCC
*****
```