

## ZKO107

Target Position: exon 1

Sense Strand Sequence

TCCATGACGAGCCTCTCCTGACCAAACCCGTCATCATCAACACACACACAAACAACACTGGAC  
GAGCTACAATGGCGAGCAGACGGGCCTCGGTGTCCTCCTGCTCGGC GGGTCTGGAGGCCTG  
GTTCCGGCGCCCGGTGGCGCGGAGGAGGAACCGGAGCTGCGGCGGCTGCGGGAACGTCT  
GCGCGGGTGTCTGTGCGAGTGCAGCCCGCGGTGGTGTCTCTCAGCGGCTGCTGGTCTGG  
GAGAGGCCGCTGCACAGCATCATCGCCGCGCTCGCCCTAAACACTCTTCTGgtgagagaaaga  
aagctgtagttgtagtggtagtagtagtaaacgggtaatctgtagttagtcgatgcctctggtcgaagttaccgta  
tttgtgtgtggcagcagctattagcgcactcttaccgtgt

Uppercase: intron/noncoding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO107a: 11bp deletion

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

```
WT          CGAGCAGACGGGCCTCGGTGTCCTCCTGCTCGGCGGGTCTGGAGGCCTGGTCCCGGCGC
ZKO107a     CGAGCAGACGGGCCTCGGTGTCCTCCTGCTCGGCGGGTCTGGAGGC-----CGC
*****                                          ***
```

```
WT          CCGGTGGCGCGGAGGAGGAACCGGAGCTGC
ZKO107a     CCGGTGGCGCGGAGGAGGAACCGGAGCTGC
*****
```

### ZKO107b: 33bp deletion

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

```
WT          CAATGGCGAGCAGACGGGCCTCGGTGTCCTCCTGCTCGGCGGGTCTGGAGGCCTGGTCC
ZKO107b     CAATGGCGAGCAGACGGGCCTCGGTGTCCTCCTGCTCGGCGGGTCT-----
*****
```

```
WT          CGGCGCCCGGTGGCGCGGAGGAGGAACCGGAGCTGCGGCGGCTGCGGGAACGTCTGCGCG
ZKO107b     -----GGAGGAACCGGAGCTGCGGCGGCTGCGGGAACGTCTGCGCG
*****
```