

## ZKO258

Target Position: exon 2

Sense Strand Sequence

TCCTGTCCTGGAGTGCCTTACCTCCACTTTGGGCCCGATCCCGAGATGGACGCCACTCAGCT  
CTCTACCAACCATGAGGGACTTGCAGAGCCAGTGCCACACAGAAGTGTCTCTCTTCCGACG  
AGGAGCGCAACGTTTCGGCAGACGTGCCTATCGCCATGGCCTCGTCCGCCGAACACAGCAAG  
GGAGAATATCCTGAAGATCTGTTACAGCTGGAGCAGAGGAGGCAAGGTGCCGTCGTGCTGC  
ATATGTTCTGGGATGATGTACATGTTTCATCGCCCTGGCCATCGTCTGCGATGAGTTCTTCGTC  
GGCCCTCACTGTGATCACGGAGAACTGGAGATCTCGGATGACGTAGCAGGAGCTACATTTAT  
GGCCGCCGGTGGTTCTGCTCCTGAGCTCTTACCTCAGTGATCGGTGTGTTTCATCTCACACAG  
CAACGTGGGCATCGGGACCATCGTGGGCTCCGCCGTCTTCAACATC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO258a: 1bp insertion

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

```
WT          AGCGCAACGTTTCGGCAGACGTGCCTATCG--CATGGCCTCGTCCGCCGAACACAGCAAG
ZKO258a     AGCGCAACGTTTCGGCAGACGTGCCTATCGTCCATGGCCTCGTCCGCCGAACACAGCAAG
*****
```

### ZKO258b: 1bp deletion, 6bp insertion

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

```
WT          AGCGCAACGTTTCGGCAGACGTGCCTATC--GC--CATGGCCTCGTCCGCCGAACACAG
ZKO258b     AGCGCAACGTTTCGGCAGACGTGCCTATCGTGCCTACATGGCCTCGTCCGCCGAACACAG
*****
```