

## ZKO558

Target Position: exon 2

Sense Strand Sequence

TCTACATTGAGACGAAGCTAGATGGTGAACGCATTCAACTGCACAAAGCTGGAGATGTTTACA  
AATATTACACAAGGAATTCTTATGAGTATACCCAACAGTTTGGGGCCTCTCCACTAGAGGGGCTC  
CCTCACACCATACATTCACAATGTCTTTAGCCCTCATGTGGTGAAGTGCATTCTAGATGGAGAG  
ATGATGGCTTATAACCCTAAACTGAGACCTTCATGCAGAAGGGCAGTAAGTTTGATATTTAA  
AGGCTGGTGGATGACTCTGATTTGCAAACCTGCTTTTGCGTATTTGATGTC

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO558a: 5bp deletion

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

```
WT          GAGTATACCCAACAGTTTGGGGCCTCTCCACTAGAGGGCTCCCTCACACCATAACATTCAC
ZKO558a     GAGTATACCCAACAGTTTGGGGCCTCTCC-----AGGGCTCCCTCACACCATAACATTCAC
            *****                               *****
```

### ZKO558b: 16bp deletion

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

```
WT          AGTATACCCAACAGTTTGGGGCCTCTCCACTAGAGGGCTCCCTCACACCATAACATTCACA
ZKO558b     AGTATACCCAACAGTTTGGGGCCTCTC-----CACACCATAACATTCACA
            *****                               *****
```

```
WT          ATGTCTTTAGCCCTCA
ZKO558b     ATGTCTTTAGCCCTCA
            *****
```