

## ZKO262

Target Position: exon 2

Sense Strand Sequence

ttatctgagaccacctaattacagataggacaacattctttcccttctgttttacttctgtgaaaggctgtggacttactc  
tgaattgctttgctcgctccttgatcaaattatacgagttgaaatgcaaaaccctgtggattaaaacagagagaggattga  
attagggtaaagtctgtgctttgagatgtttcctgtctgtcttctcacattcctccttctgtgtagtccagctgtgtcttaca  
tgccactgacctgagatcagaagatccagaaagtgtcacagcatgacatttgtgtgttttctcagGTGCTGGACCTCG  
GCTGGATAACGGCAAACCTCTACAGATACAGCTACAGCACTGAGGTCGGGCTGAACCGGCCGA  
CGGGATCCCCTGGAGGCAATGTTGGATTCAGGATTAGCAGTGATGTGGACATCAACCTGGCC  
TGGAGGAACCCTGAGATCCAGGACGAGCAGCTGCTGCAAGTAAAGgtaaaggac

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO262a: 2bp deletion

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

```
WT          GAACCGCCGACGGGATCCCCTGGAGGCAATGTTGGATTCAGGATTAGCAGTGATGTGGA
ZKO262a     GAACCGCCGACGGGATCCCCTGGAGGCAA--TTGGATTCAGGATTAGCAGTGATGTGGA
*****
```

### ZKO262b: 5bp deletion, 13bp insertion

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

```
WT          GAACCGCCGACGGGATCCCCTGGAGGCAA-----TGTGGATTCAGGATTAGCAGT
ZKO262b     GAACCGCCGACGGGATCCCCTGGAGATCAGAGTTAGCAGTTGGATTCAGGATTAGCAGT
*****
```

```
WT          GATGTGGA
ZKO262b     GATGTGGA
*****
```