

ZKO246

Target Position: exon 4

Sense Strand Sequence

ccatagtgactgctggattgtaatagttaatagtgcaacattgaactactctactaataaaggagctaattctcaggtcta
attactcttcagATGGTGGTGTAAATGGACCCCTGCGA**GGACTCTGACAATGTCTTGA**GGGCAC
ATCGCTCACGTGAAAAACATACATGTTTGATCTGGCATTGATTACACTGCCACACAGgtgtgta
ttagcactctcatccacacagagattacaaacgtttaggtcaaatcatcatccttaatgatcattatggagaacttaa
gtacaattcttgagaaagaatgtttctgttaattaggtcctaattgtttatcttaata**attaggaggatgtttatgtggc**
a

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO246a: 5bp deletion

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

```
WT          TAATGGACCCCTGCGAGGACTCTGACAATGTCTTGAGGGCACATCGCTCACGTGAAAAAA
ZKO246a     TAATGGACCCCTGCGAGGACTCTGACAA-----TGAGGGCACATCGCTCACGTGAAAAAA
*****
*****
```