

ZKO933

Target Position: exon 2

Sense Strand Sequence

GCCTTCCCATCTCGCACATTCGCCTCTGGGTGCTCCAGATCATCTTTGTTTCCACACCCTCATT
AGTGACGTGGGCCACGCCGTGCACCATGTACACATGGAGGAGAAGCGTAAGGAACGGGAG
GAGGCTGAGCTCAACCGGCAGCAAGAGAACGAGGAGAGGCTGCCGCTGGCGCCTGATCAG
GGAAGCGTCCGTACGGCCAAGGAGACGAGCACAAAGGGCAGCAAGAAGTTTTCGTCTGGAG
GGCACTCTCTGAGGACCTATATCTGCCACATTATCTTCAAGACTCTCTTTGAGATCGGCTTGT
GGTGGGTCAATACTACTTGTACGGCTTCCGAATCTTGCCACTCTACAAGTGCAGCCGTTGGCC
GTGCCAAACACGGTTGACTGCTTCGTCTCAAGACCAACCGAGAAAACCG

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO933a: 4bp insertion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

```
WT          CGAGGAGAGGCTGCCGCTGGCGCCTGATCAGGGAAGCGTCCGTACGGC----CAAGGAGA
ZKO933a     CGAGGAGAGGCTGCCGCTGGCGCCTGATCAGGGAAGCGTCCGTACGGCCGTACAAGGAGA
*****
```

```
WT          CGAGCACAAGGGCAGCAAGAAGT
ZKO933a     CGAGCACAAGGGCAGCAAGAAGT
*****
```