

ZK0894

Target Position: exon 1

Sense Strand Sequence

catgctacagatttgggctaaggccggaacccgattactcaATGTCAAATGCGCATGCGCAATGCGA
CCACGACCAACTTGAAGCGCTAACA**CCGTACTGCAACGCAACG**GAGGAGGTTACAGCCAT
ACTCACAAAATGGGAAAGAAACAGAAAAATAAGGGAGATGACGGgtaagttgtccacgattgac
cgcgtaacacggagtctgtaacagctgaacgagcgtggcgtttgttcttgacagtgtgggagacacacaccgtagc
cacctggctagcttctgatagacatgagttcatgtgccgtataactaggcctgtcatgattattgcaatactgaccgcttc
gtgagaggaatataagcttgaaaccggtagtattatagatgcatatctacatacaagtcattattgtgtttaatgcgtat
tgggtccgtttgtgtatataaatgaaacacgagcagcttgaatcgaggtccaccagc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0894a: 1bp insertion

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

```
WT          GAAGCGCTAACACCGTACTGCAACGC-AACGAGGAGGTTACAGCCATACTCACAAAAT
ZK0894a     GAAGCGCTAACACCGTACTGCAACGCAAACGAGGAGGTTACAGCCATACTCACAAAAT
*****
```

ZK0894b: 13bp deletion

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

```
WT          CACGACCAACTTGAAGCGCTAACACCGTACTGCAACGCAACGAGGAGGTTACAGCCAT
ZK0894b     CACGACCAACTTGAAGCGCTAACACCGT-----ACGAGGAGGTTACAGCCAT
*****
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```
WT          ACTCACAAAATGG
ZK0894b     ACTCACAAAATGG
*****
```