

ZK0331

Target Position: exon 3

Sense Strand Sequence

ataagtagaaaactcaccacagaaatcatgtgcaatctaatttgatactaattacttattattgcattaaatgcagttcaat
gtgatttactgtactgtgtttgtccagTGCTAGTACTGCATCACAGCCCATGCAGGTTGATGCCAAGCCTC
AATCCCATGCCTCAGATACAGCTTGAACACTACCCCAACATCGGCAGGATGGGGCATCACTGCA
TCATCATCAACAACAAGAACTTTGATCGCAGGACAGgtaaacactgttttgcgttttcacgggtgtgagttgt
cttgtgt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0331a: 4bp deletion

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

```
WT          AGGATGGGGCATCTGCATCACAGCCCATGCAGGTTGATGCCAAGCCTCAATCCCATGC
ZK0331a     AGGATGGGGCATCTGCATCACAGCC----CAGGTTGATGCCAAGCCTCAATCCCATGC
*****
```

ZK0331b: 9bp deletion, 7bp insertion

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

```
WT          AGGATGGGGCATCTGCATCACAGCCCATGCAGGTTGATGCCAAGCCTCAATCCCATGC
ZK0331b     AGGATGGGGCATCTGCATCACAGCCCATGTATAT--GAGCCAAGCCTCAATCCCATGC
*****.*.*.*
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