

ZK0275

Target Position: exon 1

Sense Strand Sequence

```
CCAGACGGAGGTTGAGCTTACAGTCTCTTGATACGCGCAACAGATTTCTCCTTAGTGACAGAG
GGATATGCGCTTTTGCTTTAAATGCTATTGCTTGACTTATGCTTCTGCACACTGTTGTTTTTCA
AGACCTATTTTTTTGTCGCCGAGCTTTCAGAGAAGACGTTTTTCTTTTCGGATTTGTGGATGTT
TTTGAGACCATAACAACGCATGTGAAAGGACTGAGACAGCACAACAAAGGAAGCGACAATCAT
TCTGAGAGTATATTTTTGCAGTGCCTGACGGAGCCCAACATGGAGACTAGCAAGGGTACAGT
GCTCTGTGCCACTTACTCAAACCTGCTCTGCTCGTG
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0275a: 18bp deletion, 14bp insertion

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

```
WT          TTTTGAGACCATAACAACGCATGTGAAGGACTGAGACAGCACAACAAAGGAAGCGACAAT
ZK0275a     TTTTGAGACCATAACAACGCATGTGAAGGAAAGGAA----GCGACAGGGGAAGCGACAAT
*****
*.*      .****.*****
```

ZK0275b: 5bp deletion

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

```
WT          TTTTGAGACCATAACAACGCATGTGAAGGACTGAGACAGCACAACAAAGGAAGCGACAAT
ZK0275b     TTTTGAGACCATAACAACGCATGTGAAGGACTGAGACAG-----CAAAGGAAGCGACAAT
*****
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