

ZK0829

Target Position: exon 2

Sense Strand Sequence

ggtgaatgatgacagaactctccgttttgggtgaactatccctttaactagtctcaggaatgtttgaaattagtcagcatta
aaccttattgtcagtctgggaacttctctgtgtacctaataaagtagctccttgtaaagGGTGTCCCGCCCTTGGAG
GGCAGTGGTCTGCCACTGGCACAGGCCATGCTAGGAGGCAGTGGCGACGCGGCAGCTGAG
GACGACGAGGATGAAGAGTTGAGGGAAGGAAAGCAATTTGAGGAGCCCATATGTGCTCTGG
TTCAGAACTGCACCATGTTGCACAACATTGTGGGCCCGCCTGCATCTTCTGCGACAAAGCT
TCGTTCAGGCTCAACTCgtatgtacttct

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0829a: 109bp deletion

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

```
WT          GAACTTCTCTGGTACCTAATGAAATAGCTCCTTGTAAGGGTGTCCCGCCCTTGGAGGGC
ZK0829a     GAACTTCTCTGGTACCTAATGAAATAGCTC-----
*****
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```
WT          AGTGGTCTGCCACTGGCACAGGCCATGCTAGGAGGCAGTGGCGACGCGGCAGCTGAGGAC
ZK0829a     -----
```

```
WT          GACGAGGATGAAGAGTTGAGGGAAGGAAAGCAATTTGAGGAGCCCATAT
ZK0829a     -----GGAAGGAAAGCAATTTGAGGAGCCCATAT
*****
```

ZK0829b:2bp deletion

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

```
WT          ACGCGGCAGCTGAGGACGACGAGGATGAAGAGTTGAGGGAAGGAAAGCAATTTGAGGAGC
ZK0829b     ACGCGGCAGCTGAGGACGACGAGGATGA--AGTTGAGGGAAGGAAAGCAATTTGAGGAGC
*****
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