

ZK0919

Target Position: Exon 3

Sense Strand Sequence

gattcggttagacttagagcatgttcctagtttcaacaattatagtttgactcaaatgagtcagaactaaatattcttaagcttgaat
gcctgcaactgatgaaagatttctgagaatagggttaggtatagtgactgaaacaatgaaacaattacaattcaattgaaagttcccaca
agacaggaaacctgaatcagtggtgtgatttctccagTGGGCCTGAGGAGCTGCTCAGGGAAGTTTCACTGTGTGTCGT
CAGTTCGGTGTATCAGCAGAAATGCTGTGTGTGAT**GGAGTACAGGACTGTAGAGAT**TGGAGAAGATGAACTC
AACTGCGgtgggtgaagactgttcatctcttctgagattaaaatcaacat**gaaatctcctgagtgatcatg**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0919a: 7bp deletion, 3bp insertion

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

```
WT          CGGTGTATCAGCAGAAATGCTGTGTGTGATGGAGTACAGGACTGTAGAGATGGAGAAGAT
ZK0919a     CGGTGTATCAGCAGAAATGCTGTGTGTGATGGAGTACAGGACTGTGAA----GAGAAGAT
*****
WT          GAACTCAACTGCGgtgggtg
ZK0919a     GAACTCAACTGCGgtgggtg
*****
```

ZK0919b: 10bp deletion

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

```
WT          CGGTGTATCAGCAGAAATGCTGTGTGTGATGGAGTACAGGACTGTAGAGATGGAGAAGAT
ZK0919b     CGGTGTATCAGCAGAAATGCTGTGTGTGATGGAGTAC-----AGATGGAGAAGAT
*****
WT          GAACTCAACTGCGgtgggtg
ZK0919b     GAACTCAACTGCGgtgggtg
*****
```