

ZK0918

Target Position: Exon 1

Sense Strand Sequence

GTCGTCGTGATGTCAGTGAATTTTTAGGTGCCCCtcaggatgcctgagtagctgcgctcgccaatgagcgtctccacc
agtgtgaatgccttcatttctgtctgctgaacttgccatcacggatccaatttgatttaaaccgaaaaggaaagcaccctccg
gttcgctgctgcccgaatcgctgacattctggagcgtttaaacaactttaactgcgcgacATGGAGTGCCG**AGTGCTGTC**
TATCCAGAGTCATGTCGTGAGAGGATACGTGGGGAACAAATCTGCATCCTTCCCGTTACAGgtgagcagctttatg
ccctgctataattatggtatgacagcgaaacgagaggtcacatgatcatattcctcattcacatgcatgtcttaagaggttatcaagcga
acttctctcatcccactgt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0918a: 25bp deletion, 5bp insertion

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

```
WT          aactttaactgcgcgacATGGAGTGCCGAGTGCTGTCTATCCAGAGTCATGTCGTGAG
ZK0918a     aactttaactgcgc-----CAGTTTATCCAGAGTCATGTCGTGAG
*****
*:** *****
```

```
WT          AGGATACGTGGGGAACAAAT
ZK0918a     AGGATACGTGGGGAACAAAT
*****
```

ZK0918b: 5bp deletion

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

```
WT          aactttaactgcgcgacATGGAGTGCCGAGTGCTGTCTATCCAGAGTCATGTCGTGAG
ZK0918b     aactttaactgcgcgacATGGAGTGCCGA-----GTCTATCCAGAGTCATGTCGTGAG
*****
*****
```

```
WT          AGGATACGTGGGGAACAAAT
ZK0918b     AGGATACGTGGGGAACAAAT
*****
```