

ZK0921

Target Position: Exon 1

Sense Strand Sequence

GCACAAACTATCCACAACCTCTCCCTCAACACTTTCTAACTGGTCTTCAAATGTCATTGCAG
ACAAACAATCTTCTGATGGACAGATCCTCAATCAGGCATTTCCAGAGTCTTACCAGATGGCTC
AGCCATACAAGATATTTCCGAAGCTTTCTGTAGTAGATCTGGAGAGGTTTGTCAAGTCTCTCCA
TCTACTGAGTATATCGCAGGAGTCTCTTTATTTAAATCAACTGACGATCTTTCAGTTGCTGGGAC
TGTATCCGCCTGTAAAGCCGTAAAGGTTGATGGATTGTCAGAAATGTCTGCCAATGTTCAAAG
CTCCATCAGTCTGAAGGACCCAGTTCTTGCACAAACGGATATTTTAGTGGAAGAGAACCAGA
CAGAAGCAGCCGAGATGCTGCCTGAGGgtatgttct

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0921a: 2bp insertion

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

```
WT          CCAGATGGCTCAGCCATACAAGATATTTCCGAAGCTTTCTGTAGTAG--ATCTGGAGAGG
ZK0921a     CCAGATGGCTCAGCCATACAAGATATTTCCGAAGCTTTCTGTAGTAGACATCTGGAGAGG
*****
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```
WT          TTTGTCAAGTCTCTCCATCTAC
ZK0921a     TTTGTCAAGTCTCTCCATCTAC
*****
```

ZK0921b: 5bp deletion

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

```
WT          CCAGATGGCTCAGCCATACAAGATATTTCCGAAGCTTTCTGTAGTAGATCTGGAGAGGTT
ZK0921b     CCAGATGGCTCAGCCATACAAGATATTTCCGAAGCTTTCTGTAGTA-----GGAGAGGTT
*****
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```
WT          TGTCAAGTCTCTCCATCTAC
ZK0921b     TGTCAAGTCTCTCCATCTAC
*****
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