

ZK0815

Target Position: exon 3

Sense Strand Sequence

```
AGAACAATCCGCCAATCCGTCTGCACTGACTGAAGAAATGTGGAGCACCAGACAACGCCTGG
AGTCTAACAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA
AGCGACACACATAGGCCAAAAAACAAGAGATCATCGCACCTCACTCCAATGCACAAGTTCC
ACAGGATTTCTGCAGAGGCTTCTAGGCAGTTCTGTCCTTCAGAGCGAGTCCACTAGTGACTT
CAAACCCCGAGAACAACCCGAAAAAGACTTCACTCTTGACAAGGAGATGCACTCAGATCACT
CGGGACTGCTGCAAAGTCTCTCCAGGATGTGCACAAGGACTCGCCGTTATCGTCACCAA
ATGGACGAGTAAAATCAGAAATCCAGCTGGATCTCCTACCTGTCAAAGAAGAGGAGGAGATG
GTTCCGGTGTGGGACAGCATCAACAGAGACGA
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0815a: 5bp deletion

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

```
WT          CATAGGCAAAAAACAAAAGAGATCATCGCACCTCACTCCAATGCACAAGTTCCACAGGAT
ZK0815a     CATAGGCAAAAAACAAAAGAGATCATCGCACCT-----CAATGCACAAGTTCCACAGGAT
*****
```

```
WT          TTCCTGCAGAGGCTTCTAGGCAG
ZK0815a     TTCCTGCAGAGGCTTCTAGGCAG
*****
```

ZK0815b: 28bp deletion

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

```
WT          CATAGGCAAAAAACAAAAGAGATCATCGCACCTCACTCCAATGCACAAGTTCCACAGGAT
ZK0815b     CATAGGCAAAAAACAAAAGAGATCATCGCACCTC-----
*****
```

```
WT          TTCCTGCAGAGGCTTCTAGGCAG
ZK0815b     --CCTGCAGAGGCTTCTAGGCAG
*****
```