

ZK0840

Target Position: exon 5

Sense Strand Sequence

actttaccttagcagcctgaggggaatattgtttgaaaaatgttggttacgctagtggaatttaggatgtggcttccctttgt
ctgcagGAGGAGTTGGAGAA**GGACCACAGAGTGACCTGGATTG**TGGAGTTTTTTGCTAACTG
GTCACCAGAGTGTCAGTCTTTTCGCCTCTGTCTATGCTGATCTGTCCTTGAAGtaagacacttgcctt
gaaatatagactgtcattataagtttgcgtttacaacatacttttacatTTTTtaatttcataaaagaatattggcactgtt
taccaaaaatacaaaatctgtcattattactcactaatcactgtcacaacctgttggcttctctctgttgagcac
aaaagaagtatttagaaaaatgttataaacgataactttactccatactattgttttcctaataatggatgtcagtg
ttagcagtttcaaacattctcaaaatctcttttgtgttcttctaacaaaagaaagatg**ctcgtaaagggttcacctgag**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0840a:5bp deletion

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

```
WT          GGAGTTGGAGAAGGACCACAGAGTGACCTGGATTGTGGAGTTTTTTGCTAACTGGTCACC
ZK0840a     GGAGTTGGAGAAGGACCACAGAGTGACC-----TGTGGAGTTTTTTGCTAACTGGTCACC
*****
```

ZK0840b: 44bp deletion

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

```
WT          AGTGAATTTAGGATGTGGCTTTCCTTTTGTCTGCAGGAGGAGTTGGAGAAGGACCACAGA
ZK0840b     AGTGAATTTAGGATGTGGCTTTCCTT-----
*****
```

```
WT          GTGACCTGGATTGTGGAGTTTTTTGCTAACTGGTCACCAGAGTG
ZK0840b     -----TTGTGGAGTTTTTTGCTAACTGGTCACCAGAGTG
*****
```