

ZK0751

Target Position: exon 7

Sense Strand Sequence

GACCTGCTGTTCAAATCCTTAA AAATGTAGCCCTGTTTCAGAACATCCTCGGACGGCCCAATG
ACACAACTGCATCTGTAGAAGATTCTGCATTGCAGCATTCTGAGCAAGAAAACACAGCAGCT
GAGAGACCCTCCACTGGATCTGCTGAACTGAGCATTGAAGAAAATGGTACATCAACAACGAC
ATGGCTCCCAGAAGATGAACATACAGACGGTAAAGGGAAGTCCTTGAATGATACATCAGAGA
ATCATGATGAAGTAGATGGCACAAGTGGTGACAATCTCTGGCTTCATCTTTGACAACACAAC
AAACACAAAATGTAGAAAGTGAGACCACAGATGGCTTTATAGAGCAGTCAAAAAGCATTATA
ACTCGTTTCTGTAATCCCCGGCCGTTTGATACACGCACAGGAACGTTTCAATACATGCAGAAG
GAAATACTCCA **CCTGAGACTGGTCCAAGCAA** TCTTCTTGACCCCGTGCATGAGTACAAACTC
CTGGTAAACACAAGTAATGTGCCAGAAAAGGATGTTCTAGAAAAGTTTTCAAATGAAACATTC
TGGTTTGCCGCAGCATGCATGAATGT **TCGAACCAATGGAACCATTCA**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZK0751a: 2bp deletion

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

```
WT          TTTCAATACATACAGAAGGAAATACTTCCACCTGAGACTGGTCCAAGCAATCTTCTTGAC
ZK0751a     TTTCAATACATACAGAAGGAAATACTTCCACC--AGACTGGTCCAAGCAATCTTCTTGAC
*****

WT          CCCGTGCATGAGTAC
ZK0751a     CCCGTGCATGAGTAC
*****
```

ZK0751b: 5bp deletion

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

```
WT          TTTCAATACATACAGAAGGAAATACTTCCACCTGAGACTGGTCCAAGCAATCTTCTTGAC
ZK0751b     TTTCAATACATACAGAAGGAAATACTTCC-----AGACTGGTCCAAGCAATCTTCTTGAC
*****

WT          CCCGTGCATGAGTAC
ZK0751b     CCCGTGCATGAGTAC
*****
```