

ZK0862

Target position: exon2

Sense Strand Sequence

cattatgtctgattgtgaggagctattataaccactgatctgaactttcgaatgttcctgtTTTTCAGGACATCAGTTG
CCTTTCTGCTGACTTGAAAATGCCAGCACACAAGCTCATTCTGCTGACACGGATCCTCCCAA
ATTCCACCGTCTCTTTA **GGTCCATGACCCTGAAGTGG** TGGCAgtaagtaaagacgataacagataaa
gaaaacagtaatagataaataaattatacagtatttaactgtaacatgaactgtattttacagtaagacagtttgcagtgt
gttactgtattttaaagttgcaataagaaaatgactgtatattttacagtaataatatacaataactgtaaatatacaatagagc
atataggcctcgtgtttgattggggttggagcaaaactacagagctcggccctccaggaattgagttgagacctatgat
atcgagcaagataaatgggtgctgtaaatgtaatacagtatgtgtgctgtaattgatttacagtaagttactacagagtcta
caggaaatgaacagtgtagagatgtttgcttaatgttgctgtttaaagtgtgcatttttctag **GTTATGGCAACT**
GCTAGGTCT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

atcg: cas9 target site

ZK0862a: 8bp deletion, 4bp insertion

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

```
WT          CAAATTCACCGTCTCTTTAGGTTCCATGACCCTGAAGTGGTGGCAGTAAGTAAAGACGA
ZK0862a     CAAATTCACCGTCTCTTTAGGTTCCATGATCC----ATGGTGGCAGTAAGTAAAGACGA
*****.***.*****
```

ZK0862b: 11bp deletion

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

```
WT          CCAAATTCACCGTCTCTTTAGGTTCCATGACCCTGAAGTGGTGGCAGTAAGTAAAGACG
ZK0862b     CCAAATTCACCGTCTCTTTAGGTTCCA-----TGGTGGCAGTAAGTAAAGACG
*****                                           *****
```