

ZKO842

Target Position: exon 3

Sense Strand Sequence

gcagcacacatatcataggaccattaattaatggataatatcctgaagaacagtttatgaggctgcaccattcagagattt
acaatatttctctgttactcctctgacactgctagAAAATGTCACAGAGGGTACAGTAACGTGAGTTTGA
CGGAGCAGACCGTTTGGCTGAGCTGCATTGAGCAAGAGGAGATTCTCAATCTGGGCTTCACC
ATTGGTTCCTTCATCATCAGCGCAGCCACTCTGCCGCTA**GGAGTCTTGATGGACAAGTTCGGT**
CCTCGTCCAATCAGACTGTTTGGCAGgtgagagacattgggtgttaatttttaaatggtgactagaaaaaatcag
agttgaaaagtggtgaaatatgaaaagtataaagagttgggtgttaaatccttattttgatgtcgatgtagtatcagatt
ttactctaaaggtgcagtaggtgattgccaat**gctactcggtagcatgttatc**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO842a: 5bp deletion

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

```
WT          CAGCCACTCTGCCGCTAGGAGTCTTGATGGACAAGTTCGGTCCTCGTCCAATCAGACTGT
ZKO842a     CAGCCACTCTGCCGCTAGGAGTCTTGATG-----GTTCGGTCCTCGTCCAATCAGACTGT
*****
*****
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ZKO842b: 13bp insertion

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

```
WT          CAGCGCAGCCACTCTGCCGCTAGGAGTCTTGATGGA-----CAAGTTCGGTC
ZKO842b     CAGCGCAGCCACTCTGCCGCTAGGAGTCTTGATGGACAAGACTCCAAGCCAAGTTCGGTC
*****
*****
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WT          CTCGTCCAATCAGACTGTTTGGCAG
ZKO842b     CTCGTCCAATCAGACTGTTTGGCAG
*****
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