

ZKO992

Target Position: exon 2

Sense Strand Sequence

tccagGTATGTGAGGCTTCGGGGCATTTCGAGATGCAGGTTTTGTCCATGCAGAATGTGAACG
GGGAGCTGCAGAACGGCGGTGCTGTGACGGTGC GCGTGACCCGGCGGAGCGCTCCTGCG
CGGCGGACCAGTGTGATACGTTTTTCCGCGTATGTTTGAAGGAGTATCAGTCGCGGGTGTCTT
CGGGAGGCCCTTGACGCTACGGAAGCGGATCTACTCCTGTAATTGGTGGGAATACTTTTTCTG
TCAAGCCCCTTGACCAAACAATGACAAAACCCGGATCGTGCTGCCCTCAGCTTCGCGTGG
CCGgtgagtttcagaggctgtttgttgc~~caaaagacgatatgggct~~

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO992a: 5bp deletion

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

```
WT          GCTGTGACGGTGC GCGTGACCCGGCGGAGCGCTCCTGCGCGGCGGACCAGTGTGATACGT
ZKO992a     GCTGTGACGGTGC GCGTGACCCGGCGGAGCGCTCCT-----GCGGACCAGTGTGATACGT
*****
```

```
WT          TTTTCCGCGTATGTTTGAAGGAGTATCAGTCGCGGGTGTCTT
ZKO992a     TTTTCCGCGTATGTTTGAAGGAGTATCAGTCGCGGGTGTCTT
*****
```

ZKO992b: 2bp deletion

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

```
WT          GCTGTGACGGTGC GCGTGACCCGGCGGAGCGCTCCTGCGCGGCGGACCAGTGTGATACGT
ZKO992b     GCTGTGACGGTGC GCGTGACCCGGCGGAGCGCTCCT--GCGGCGGACCAGTGTGATACGT
*****
```

```
WT          TTTTCCGCGTATGTTTGAAGGAGTATCAGTCGCGGGTGTCTT
ZKO992b     TTTTCCGCGTATGTTTGAAGGAGTATCAGTCGCGGGTGTCTT
*****
```