

ZKO623

Target position: exon 2

Sense Strand Sequence

ttacgcgagcttcacatctggactctctagtcgcttcacaaatctggccatcttctaagatttggttacttattatactatt
ctaacgcatgggaatattaacaactggatcgtccttgcatgaagaagatcttctgtaagtaataattgctgtctga
gataaatggactaccacataatctctggagatgacgttcaaggagtgtcgcgatcaaaatcatgcaggaatttaggaa
aacaacctctctaaaataaggtttgctgaatgaactctgaatgaatgaattgtgcaacaacgtctgctatattaaag
attagaagcaattggtgacttttgcagttgctagtggttacggctgtgAAGCAGAAGATGGGTCGCTTTTACGC
TCAGATTTGGATAATGCTGATGTTGATAGCAGTGCCCGTAGCGGTACAGTGTTGCCCGCGGCC
ATGTGCGTGCCACCAGCCCCGTCGAGGTGCACTGCACGTTCCGCTCTTTACTCACAGTGCCTGC
TGCGTGCCCAAACAGGTGGAGCGAATGAATTTGGGgtaaggatgagtgctgtgcatga

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO623a: 7bp deletion

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

```
WT          AGCAGTGCCCGTAGCGGTACAGTGTTGCCCGCGCCATGTGCGTGCCACCAGCCCGTCGA
ZKO623a     AGCAGTGCCCGTAGCGGTACAGTGTT-----GCCATGTGCGTGCCACCAGCCCGTCGA
*****
*****
```

ZKO623b: 26bp deletion, 1bp insertion

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

```
WT          TGATAGCAGTGCCCGTAGCGGTACAGTGTTGCCCGCGCCATGTGCGTGCCACCAGCCCG
ZKO623b     TGATAGCAGTGCCCGTAGCGGTACAGTGTT-----GACCG
*****
*****
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WT          TCGA
ZKO623b     TCGA
*****
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