

ZKO223

Target Position: exon 2

Sense Strand Sequence

gtgctcctaataagactgcctgttttgagtgtttaaacagactaattgtattgtctatgtagacatgatactaggattgaca
catagcaactttctgttcctcttgattttctaattctgaatatgttctgtgtattttgtagTGTGCAAGTTTGTGAGTA
TTGAGATGAAGTCAGCATTGACGAGACTGGAAAAACAAAAGAAGTCATTGATACCAACTAC
CGTTCCTGGATGATAAAGGGGCACCGCCAAATCAAATATGTCAAATCgtgagtatctttggccttatt
gcaaagtgatataaattaggattctgatagatatgtggaagtagggctgcacaatattaagaaatthaacattgtatatt
tttattctgtgattataaattgtgatgtgaatacagtttactagatgaattgaataactgttgaaagaatthttgattggga
tgattctggtggtg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO223a: 4bp deletion

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

```
WT          AGAAGTCATTGATACCAACTACCGCTTCCTGGATGATAAAGGGGCACCGCCAATCAAATA
ZKO223a     AGAAGTCATTGATACCAACTACCGCTTCC----TGATAAAGGGGCACCGCCAATCAAATA
*****
WT          TGCAAATC
ZKO223a     TGCAAATC
*****
```

ZKO223b: 5bp deletion, 1bp insertion

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

```
WT          AGAAGTCATTGATACCAACTACCGCTTCCTGGATGATAAAGGGGCACCGCCAATCAAATA
ZKO223b     AGAAGTCATTGATACCAACTACCGCTTCCTGG----CAAAGGGGCACCGCCAATCAAATA
*****
WT          TGCAAATC
ZKO223b     TGCAAATC
*****
```