

ZKO463

Target Position: exon 5

Sense Strand Sequence

ctcagCTCTGTACAAGTATGCGGATCTGATGTGGAAACAAAATGTGTGGACCTCCACTATTTGTA
CTCACCTAGCAACCAGATACCTGAGAGTGGGGGACTGCTCACACTGACTGGAGCCAAAGTA
GCACTGGGGCCGACAGCAGgtgtaaaacttcattatcttcccttcattctggaatgaaatgcaaatgataa
ttgacaaaccaatttgttattaatgtaaaatggttagggtaaaaacattttattacaaatagttaactttttgtttgaac
aaacaattgaccatgttgacagttttgtcttag

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO463a: 1bp insertion

CLUSTAL format alignment by MAFFT E-INS-i (v7.215)

```
WT          CTCACCTAGCAACCAGATACCTGAGAGTGGGGGGACTGCTCACAC-TGACTGGAGCCAAA
ZKO463a     CTCACCTAGCAACCAGATACCTGAGAGTGGGGGGACTGCTCACACTGACTGGAGCCAAA
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WT          GTA
ZKO463a     GTA
***
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ZKO463b: 5bp deletion, 1bp insertion

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

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WT          CTCACCTAGCAACCAGATACCTGAGAGTGGGGGGACTGCTCACACTGACTGGAGCCAAAG
ZKO463b     CTCACCTAGCAACCAGATACCTGAGAGTGGGGGGACTGCTCA----AACTGGAGCCAAAG
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WT          TA
ZKO463b     TA
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