

## ZKO423

Target Position: exon 2

Sense Strand Sequence

tctaattgagccatactgtcataaaaagtcaaacagattgtttagaacaaagacagaattgtattgtttattttctttcta  
tctttctttctcatatagGCTCTTTACAGGGGGAATATCAGCGGAAGTTGTATAAGGAGTTGATGGAG  
AACTATAACAGACTGGAAAGGCCTGTTCTCAATGATTCTGCACCCATAGTGGTGGAGCTGGGA  
CTCACACTGCTTCAAATCATAGATGTGgtgagtgtctgcatcagcttttctttatgccattctgtttcatcatgca  
ggttagattttctgttgatgatactgtaagtacattcaataaacatgtcagctactagctattagtagtagacttaggt  
aggttaggttcagtgtagaagaataatttaaaacacggcatggcagttcgagtcatttagta

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO423a: 8bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

```
WT          GGCCTGTTCTCAATGATTCTGCACCCATAGTGGTGGAGCTGGGACTCACACTGCTTCAAA
ZKO423a     GGCCTGTTCTCAATGATTCTGCACCCAT-----AGCTGGGACTCACACTGCTTCAAA
*****
```

```
WT          TCATAGAT
ZKO423a     TCATAGAT
*****
```

### ZKO423b: 17bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v6.850b)

```
WT          ATAACAGACTGGAAAGGCCTGTTCTCAATGATTCTGCACCCATAGTGGTGGAGCTGGGAC
ZKO423b     ATAACAGACTGGAAAGGCCTGTTCTCAA-----TGGTGGAGCTGGGAC
*****
```

```
WT          TCACACTGCTTCAAATC
ZKO423b     TCACACTGCTTCAAATC
*****
```