

ZKO902

Target Position: exon 4

Sense Strand Sequence

TCAGACCCAGgtcagaatcgatcattattctcattatttcccagctagccgtggtgcacggatcagatataatgatcgt
tagattgtagatggtgatgattgattcagttgttctgttcaacagGGTGTATTGAAACACAGATGGTCCATC
TTATACCTCCTGCTCAGCCTCTGTGAGGACC CAAGGAAACCATCCGGCCCGGGTTCCTgtatga
aatcctatttt

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO902a: 5bp deletion

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

```
WT          AAACACAGATGGTCCATCTTATACCTCCTGCTCAGCCTCTGTGAGGACCCAAGGAAACCA
ZKO902a     AAACACAGATGGTCCATCTTATACCTCCT-----GCCTCTGTGAGGACCCAAGGAAACCA
*****
```

ZKO902b: 11bp insertion

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

```
WT          ACACAGATGGTCCATCTTATACCTCCTGCT-----CAGCCTCTGTGAGGACCCA
ZKO902b     ACACAGATGGTCCATCTTATACCTCCTGCTACCCAGCTACCCAGCCTCTGTGAGGACCCA
*****
```

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WT          AGGAAACCATC
ZKO902b     AGGAAACCATC
*****
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