

ZKO1054

Target Position: exon 11

Sense Strand Sequence

tactgactcgctcttcttctcaGCGATGAACATCGTGACGTCTGTTCTGCTGCTGTACGCTAAAGAGG
AGGAGGCCTTTGGCTGCTAGTGGCCATGTGTGAGCGTATGCTTCCCGACTACTACAACACCA
GAGTCGTAGgtgagcttcagctcggataacaactgcaaaaagcacataatacatttagtcattgtctgaca
ctttgtcaaagcgatttaaattgaagagtcagtcagtgattcaataaggagtgtttgtttgcattgagaga
ggaacgtgaagagggtttctacaggtggttggaaggccactcaccagtggaagcacacttcataaatgcatgtttttt
ggggttttttgtgtaagaactgtctggtgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1054a: 10bp deletion, 4bp insertion

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

```
WT          GTCTGTTCTGCTGCTGTACGCTAAAGAGGAGGAGGCCTTTGGCTGCTAGTGGCCATGTG
ZKO1054a    GTCTGTTCTGCTGCTGTACGCTAAAGAGGAGGAGGCC-----AAAATAGTGGCCATGTG
*****.*****
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```
WT          TGAGCGTATGCTTCCCGACT
ZKO1054a    TGAGCGTATGCTTCCCGACT
*****
```

ZKO1054b: 4bp insertion

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

```
WT          CGCTAAAGAGGAGGAGGCCTTTGGCTGC-----TAGTGGCCATGTGTGAGCGTATGCTTC
ZKO1054b    CGCTAAAGAGGAGGAGGCCTTTGGCTGCTTATTAGTGGCCATGTGTGAGCGTATGCTTC
*****
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