

ZKO1149

Target Position: exon 1

Sense Strand Sequence

GCTCCACTCGAGGATCGTTTGTGCAGTCGGACTTCGGTTTTACACTTACTCCGGATTTACTTC
AGATCTAACAGTGCTTTGGACAGTTTTTTGAGCGACTCTCTCATCCATAAACACAAGGCCAA
TTTTTTTGTAGCTGAAGAGGTGTGAGCCATCATGGCTAAAGTGCA GGTGCTGAATGTGGCT
GTTCTGGATAACCCAGTCCTTTTGAAACCCGTTTCAGTTTCGAGATTACATTTGAGTGTATG
GAGGACTTACCTGAAGgtgagagatttcgacaattaccacaataatacactatacatcaattctttgtcg
Agtgctgtgtaaataatgacattccaagactgtagggtcgc

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO1149a: 8bp deletion

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

```
WT          GCCATCATGGCTAAAGTGCAGGTGCTGAATGTGGCTGTTCTGGATAACCCAGTCCTTTT
ZKO1149a    GCCATCATGGCTAAAGTGCAGGTGCTGAA-----TTCTGGATAACCCAGTCCTTTT
*****
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```
WT          GGAAACCC
ZKO1149a    GGAAACCC
*****
```

ZKO1149b: 4bp deletion

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

```
WT          TGGCTAAAGTGCAGGTGCTGAATGTGGCTGTTCTGGATAACCCAGTCCTTTTGGAAACC
ZKO1149b    TGGCTAAAGTGCAGGTGCTGAATGTGGCTG----GGATAACCCAGTCCTTTTGGAAACC
*****
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WT          CGTT
ZKO1149b    CGTT
****
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