

ZKO470

Target Position: exon 4

Sense Strand Sequence

CGCTGTGCAGAACTATGTAGAACACATGCTCTTTCTCCTCATGGAGGAGGAATGTGGTCAAAA
TGGAGCCATGGGGCCCATCCTGGAGTTTGTAGTGATGGAGAATGTATTGGAGAGGCTATTCAT
CTGGAGCTTGAGACGAGAATTCACAGACGACATGAAATTAGAGCAGCTAAAGATGTATGAGA
TGCTGATCGGTCAAGCCAGGCAGCCATTGCTTCATATAAACCTGTGTTGAAGCCCTTAATGAT
GCTTCTGTCATCCTGCTCCGGTCTCCGACAGGTCCGAGCTCCCCGCTGTGGAGACAGAACT
CGTGCTGCTCCTGAACCAGCTGTGCTGTGCTTGGCTAAAGATCCTTCAGTCCTGGAGCTGTT
TTCCATAACAGTGAGGACCAAGGAGCTGCTAACTCCTCATCTTCTCCCTGCTCATCCCTTTCA
TACACAGGGAAGGATCAGTCGGACA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO470a: 20bp deletion

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

```
WT          CAGGTCCGAGCTCCCCGCTGTGGAGACAGAACTCGTGCTGCTCCTGAACCAGCTGTGCT
ZKO470a     CAGGTCCGAGCTCCCCGCTGTGGAGACAGAACTC-----GTGCT
          *****
          *****

WT          GTGTCCTGGCTAAAGATCCTTCAGTCCTGG
ZKO470a     GTGTCCTGGCTAAAGATCCTTCAGTCCTGG
          *****
          *****
```

ZKO470b: 9bp deletion

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

```
WT          CCCCCGCTGTGGAGACAGAACTCGTGCTGCTCCTGAACCAGCTGTGCTGTGTCCTGGCTA
ZKO470b     CCCCCGCTGTGGAGACAGAACTCGTGCTGCTC-----CTGTGCTGTGTCCTGGCTA
          *****
          *****

WT          AAGATCCTTCAGTCCTGG
ZKO470b     AAGATCCTTCAGTCCTGG
          *****
          *****
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