

ZKO441

Target Position: exon5

Sense Strand Sequence

gcaatatcagttggttttcagcattatattatacctgcgcataataattttcctctctgtatattgttcagATTCGGATG
GAACATTTGAGACTCTGAAAAAGCCCAAACCTAAAGAGAATGGAACGGCTAAAGGCAAGAA
GGAATCAGATTCAGGAAAAGCAAACAAGTGAAAGTCTCCTCCAGCAAATCCCCAGTCAAAT
CCCCAGCACGGTGAAGGGGAGGGGTGAAGAGTTCTCAACCCACCGTTTCCCCT**AAGGTGGC**
ACCAACCCACCAAAACAGATGCCACATCAGTAATGGCTTTTTTTGGGAGTTCAAGTGTTCA
GAGGTCCGAGAAGAAAATGGTGGCCAGTAGCAGCACT**AAGAGGAAGGC**Agtgag

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO441a: 4bp deletion

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

```
WT          GTGAAGAGTTCTCAACCCACCGTTCCCCTAAGGTGGCACCAACCCACCAAAACAGATG
ZKO441a     GTGAAGAGTTCTCAACCCACCGTTCCCCTAA----GCACCAACCCACCAAAACAGATG
*****
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```
WT          CCCACATCAGTAATGGCTTT
ZKO441a     CCCACATCAGTAATGGCTTT
*****
```

ZKO441b: 20bp deletion

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

```
WT          GTGAAGAGTTCTCAACCCACCGTTCCCCTAAGGTGGCACCAACCCACCAAAACAGATG
ZKO441b     GTGAAGAGTTCTCAACC-----CACCAACCCACCAAAACAGATG
*****
```

```
WT          CCCACATCAGTAATGGCTTT
ZKO441b     CCCACATCAGTAATGGCTTT
*****
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