

ZKO642

Target Position: exon 3

Sense Strand Sequence

GTGGATCTCTCCACTAACAAAGCCAGAACCTCCCCGTCACCTTTCAGCATCTTCATCTTTATCTT
CATCTCCCTCGTCTTCTTCGTCATCAATACGATTTTGTCCACGCTCTCCTCCC**TCCAGCAAGTC**
TCTGCCATCTTTCATCCCCATCATCATTATCCATGCCTTCGTCCTCCTCCACATCCGTCATAACC
CCGGTTCCTCGTTTGAAGATGTCTCCATCCTGCTCTGTCCCGGTGGTGTTCATCTCTCCATCC
AGGGGACTCAGGGGACAGTCATTTTTGCACATACCCAGCTGATGCCTCCGTGTTCCAGTCC
GGTTCACATCCATCCACGCCGGGTGCCGGTGGTGGTGCAGCCCATGCCGCTGGTCTACCCT
GGGGTGGGTTTCGCTGGGCAGCAGCAGGCTCATGATGCCACTTTTGGAGGAAAACAGGATG
CACAGAAAAGgtgagacagaagtctatatgtgacctggaattaaagcaatcttatattgatgattatagcaca
gtgcattgaca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO642a: 10bp deletion, 17bp insertion

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

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WT          TCAATACGATTTTGTCCACGCTCTCC-----TCCCTCCAGCAAGTCTCTGCCATCTTC
ZKO642a     TCAATACGATTTTGTCCACGCTCTTCGATTTTGTCCAGATGGCAAGTCTCTGCCATCTTC
*****.*          ***  ..*****
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```
WT          ATCCCCATCATCATTATC
ZKO642a     ATCCCCATCATCATTATC
*****
```

ZKO642b: 8bp deletion, 3bp insertion

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

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WT          TCAATACGATTTTGTCCACGCTCTCCTCCCTCCAGCAAGTCTCTGCCATCTTCATCCCCA
ZKO642b     TCAATACGATTTTGTCCACGCTCTCCTCCCTCT-----CCCTCTGCCATCTTCATCCCCA
*****.*          .*****
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```
WT          TCATCATTATC
ZKO642b     TCATCATTATC
*****
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