

ZKO227

Target Position: exon 2

Sense Strand Sequence

tgccgctgcttctaatttaagcttcacaactagaggttggttatgagaatcttacattgattacatttaactgaatttcttccatgttaaat
atgtaacctaaaagcttacttgTTTTATACGCAGTTTATTCTTCGGAAATAGTGGCACGAGGAGACACGGCTGTTGTGTT
TGGTCAGGATGCTTCTCTCTCTGTACTCTGCCGTTCCGTGTCGGCGTCAAACAGGTGACATGGCAGCGGGT
GCGTGCGCAGGATGTACACACTCTGGCCACGTTTCAGCGAGCGCTTCAAGGATAATGTGGATGAGGACTTTG
TCGGAAAGATAATTTCCAAGCATCGTTTAATTCAACAACACTATTGAGATCAAAAACACAACATTTGAAGATGA
GGCTTGCTACATTTGTTCTTCAAATTGTATCCAACAGGACCCAAACGAGAAACCTTGTGCGTCACTGTAAAA
Gtaggttaacaacactttgacaca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO227a: 4bp deletion

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

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WT          CTTCGGAAATAGTGGCACGAGGAGACACGGCTGTTGTGTTTGGTCAGGATGCTTCTCTCT
ZKO227a     CCTCGGAAATTGTGGCACGAGGAGACACGGCTGTTG-----TGGTCAGGATGCTTCTCTCT
*.*****  *****
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WT          CTTGTACTCTGC
ZKO227a     CTTGTATCCTGC
*****.****
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ZKO227b: 8bp deletion

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

```
WT          CTTCGGAAATAGTGGCACGAGGAGACACGGCTGTTGTGTTTGGTCAGGATGCTTCTCTCT
ZKO227b     CCTCGGAAATTGTGGCACGAGGAGACACGGC-----TTGGTCAGGATGCTTCTCTCT
*.*****  *****
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```
WT          CTTGTACTCTGC
ZKO227b     CTTGTATCCTGC
*****.****
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