

ZKO1017

Target Position: exon 2

Sense Strand Sequence

cggctcatgctccgtgaatctaacaattcttctcttctcttctctctctctctcttctccccgtctctccctctccgctccctccag
GATGAATTCCACCCCTTCATCGAGGCTCTCCTCCCGCACGTGCGGGCGTTCTCTACACCTGGT
TCAACCTGCAGGCCCGTAAGCGCAAGTACTTTAAGAAGCACGAGAAGCGCATGTCCAAGGAT
GAGGAGCGCGCCGTCAAAGACGAACTCCTGGGGCAGAGAAGCCCGAGATCAAGCAGAAGTGG
GCGTCGAGGCTGCTGGCCAACTGCGCAAGGACATCCGGCCGGAGTTTCGCGAAGACTTCG
TGCTCACCATCACGGGGAAGAAGGCACCGTGTGCTGCTCTCCAACCCGGATCAGAAGGGT
AAGATCCGGCGCATCGACTGCCTGCGGCA**GGCCGACAAAGTCTGGCGCC**TGGACCTGGTGA
TGGTGATCCTGTTCAAGGGAAGCCCGCTGGAGAGCACAGACGGAGAGAGGCTGGTCAAGTC
CCCGCAGTGTCCAACACAGCCTGTGCGTGCAGCCGCATCACATCGGAGTGTCTGTCAAGG
AGCTGGACCTGTACCTGGCCTACTTCGTCCACATGCcaggtcagtggttacactcttctctccctctac
tgctactgatatgttgatttaagagcggccagaatctagagtaaggcgacaccgc**cgtaatcgccgtcacatcca**

Uppercase: Exon/coding sequence
Lowercase: intron/noncoding sequence
atcg : Forward/Reverse primer
atcg : cas9 target site

ZKO1017a: 2bp deletion

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

WT	CGACTGCCTGCGGCAGGCCGACAAAGTCTGGCGCCTGGACCTGGTGATGGTGATCCTGTT
ZKO1017a	CGACTGCCTGCGGCAGGCCGACAAAGTCTG--GCCTGGACCTGGTGATGGTGATCCTGTT

ZKO1017b: 27bp deletion

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

WT	GGATCAGAAGGGTAAGATCCGGCGCATCGACTGCCTGCGGCAGGCCGACAAAGTCTGGCG
ZKO1017b	GGATCAGAAGGGTAAGATCCGGCGCATCGACT-----G
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WT	CCTGGACCTGGTGATGGTGATCCTGTTCAAGG
ZKO1017b	CCTGGACCTGGTGATGGTGATCCTGTTCAAGG
