

ZKO244

Target Position: exon 5

Sense Strand Sequence

GTCTGTTTGTTCCTGTTTAGCTAATCAGCTATTAGTGCAGATCCTAAAGCTCCTCACCCCATCA
GACGTGACCAGCGGCAGTGATGCTGTGGTATCCAGTAAATCCTCTTCGAGTCTTGATTGGGTT
TCAGTCTCCTCTGAGATTACGAATGCTGTGGTTGAGGCGTTGAGCTCAGAGAATCATCCGCAG
GTCCTCCA GGGCGTGCAGCTGCTGTCAC TGTTTCTCTCTCAGTGTGAAGAGCCTATCAGAAGC
TCTCTGTGGAAAGATGTGCTCCACCTCTGGAAGTCTAATCAACAGGGGCTCTGAACCACTG
ACTCAGCCCCTCATGACTGTTTTACGTGCTGCCGTGATgtgagtccattagaatacgtcttatgtgccttga
gaaccaaccctgtttctgaaggcaaacaccagcagtacataat

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO244a: 14bp deletion

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

```
WT          CTCAGAGAATCATCCGCAGGTCCTCCAGGGCGTGCAGCTGCTGTCACTGGTTCTCTCTCA
ZKO244a     CTCAGAGAATCATCCGCAGGTCCTCCAGGG-----CACTGGTTCTCTCTCA
*****                                         *****
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```
WT          GT
ZKO244a     GT
**
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ZKO244b: 13bp deletion

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

```
WT          CTCAGAGAATCATCCGCAGGTCCTCCAGGGCGTGCAGCTGCTGTCACTGGTTCTCTCTCA
ZKO244b     CTCAGAGAATCATCCGCAGGTCCTCCAGGGCGTGA-----GTTCTCTCTCA
*****                                         *****
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WT          GT
ZKO244b     GT
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