

ZKO640

Target position: exon1

Sense Strand Sequence

gctggcacagtgtccataagaatgtaagggagtgacagagtgcatgccgagacggctccagtacatggcctgacctg
gtgtgcAGTAGCATTTCAGTGGTTCAGTGTGGGGTCT**GGTGGACTCTGCTGACTTGG**GGGTCA
GTGACCAGCCAACCACAGTCTTGCCGGTCGTCAT**GGAAACAAGAGGCCGGAAG**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO640a: 5bp deletion

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

```
WT          TTTCAGTGGTTCAGTGTGGGGTCTGGTGGACTCTGCTGACTTGGGGGTCAGTGACCAGCC
ZKO640a     TTTCAGTGGTTCAGTGTGGGGTCTGGTGGGA-----CTGACTTGGGGGTCAGTGACCAGCC
*****
*****
```

ZKO640b: 19bp deletion, 12bp insertion

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

```
WT          CTGCTGACTTGGGGGTCAGTGACCAGCCAACCACAGTCTTGCCGGTCGTCATGGAAACA
ZKO640b     CTGCTGACTTGGGGGTCAGTGACCAGCAA-----CTGACCCGTGGCCATGGAAACA
*****
*****, ** * *,*****
```