

ZKO221

Target Position: exon 1

Sense Strand Sequence

agtgatgatgcagcactgagaaaagaatcaatttcaaaatgcatgcaggatgtataaagcgtttctgctgttttcttttta
tctcggcttcccacagagaaagattATGGGTTCTGATTTCTTCAATAAAGTGTGTGGTCATCTGAAGCT
GCTGGAGAAGGAGTACTTTGGCC TGGAGTTTCGACACCATAATGGCAGCTTTgtgagtcaagacc
ttgattatcaatgatgtcaagagaaattgacaatagtttcatctacaaaaataaacattgtgtataaaatattcacctta
aaggggacctattatgccactttttacaagatgtaaaataagtctctgatgtccctagaataaagtttcagctcataataac
ccacaaaca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO221a: 7bp deletion

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

```
WT          ATAAAGTGTGTGGTCATCTGAAGCTGCTGGAGAAGGAGTACTTTGGCCTGGAGTTTCGAC
ZKO221a     ATAAAGTGTGTGGTCATCTGAAGCTGCTGGAGAAGGAGTA-----CTGGAGTTTCGAC
*****
```

```
WT          ACCATAATGGCAGCTTTGT
ZKO221a     ACCATAATGGCAGCTTTGT
*****
```

ZKO221b: 14bp deletion

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

```
WT          ATAAAGTGTGTGGTCATCTGAAGCTGCTGGAGAAGGAGTACTTTGGCCTGGAGTTTCGAC
ZKO221b     ATAAAGTGTGTGGTCATCTGAAGCTGCTGGA-----GCCTGGAGTTTCGAC
*****
```

```
WT          ACCATAATGGCAGCTTTGT
ZKO221b     ACCATAATGGCAGCTTTGT
*****
```