

## ZK0612

Target Position: exon1

Sense Strand Sequence

ACCGAACTCGTGACTCTGCGCCAGCGCCAGACAGAACCGTCCCGTCTGGCCGAACTTTACCA  
GCAGGAGATCCGCGAGCTGCGCTCCC AACTCGAGGAACTCAACGCCGAGAAGAACCAGATG  
ATGTTTCGAGCGCGACAGTATCGAGGAAGACCTACAGAACTTCACGAGAAGTTTGAGGAAG  
AGATGAGAATGCGCGAGGAGGCCGAGCAAACCTGAGAGCTTTCAAGAAGGACGTGGACA  
ACGCCT

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZK0612a: 1bp insertion

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

```
WT          AGCAGGAGATCCGCGAGCTGCGCTCCCAAC-TCGAGGAACTCAACGCCGAGAAGAACCAG
ZK0612a     AGCAGGAGATCCGCGAGCTGCGCTCCCAACTCGAGGAACTCAACGCCGAGAAGAACCAG
*****
```

### ZK0612b: 1bp deletion

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

```
WT          AGCAGGAGATCCGCGAGCTGCGCTCCCAACTCGAGGAACTCAACGCCGAGAAGAACCAGA
ZK0612b     AGCAGGAGATCCGCGAGCTGCGCTCCCAAC-CGAGGAACTCAACGCCGAGAAGAACCAGA
*****
```