

ZKO614

Target Position: exon 3

Sense Strand Sequence

```
CTCTGGAAGGGGTGAACTGACCCAACACATTGCTGCTGCGCCACTCTGCACTCCCAGCAGG
GCAGCCTTTCTCACAGGCAGATATCCCATCCGATCAGgtaattgtttaacactgttgagattgtgttctaa
acattattgtttatatgagcaattccttttaaatggcaaaacaaaaacagcataatagcaatattatataaagttatactgt
aaaaatgatggcaattttaacagagacacattttaacagagaaaagcattagtcaatagaataaaatataaaatatttaa
aggaaaatagtctatagaattttcataaacataaaatagtgattgactgaatgcaatattgttatgttcctgtttt
gcattttgagtgctgtgattgcattttgtgattgcttctgcttttagtggtgcat
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO614a: 56bp deletion

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

```
WT          ACTCCCAGCAGGGCAGCCTTTCTCACAGGCAGATATCCCATCCGATCAGgtaattgttt
614a        ACTCCCAGCAGGGCAG-----
                *****

WT          aacactgttgagattgtgtttctaaacat
614a        -----attgtgtttctaaacat
                *****
```

ZKO614b: 8bp deletion

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

```
WT          ACTCCCAGCAGGGCAGCCTTTCTCACAGGCAGATATCCCATCCGATCAGgtaattgttt
ZKO614b     ACTCCCAGCAGGGCAGCCTTTCTCACAGG-----CCATCCGATCAGgtaattgttt
                *****

WT          aacactgttgagattg
ZKO614b     aacactgttgagattg
                *****
```