

## ZKO920

Target Position: Exon 3

Sense Strand Sequence

atgtaatctttggcgtgttc tagaaagtgcaccttcgctgtgtttgtgactgtagACACCCGCTGTTCCCCCTGTTGGCGCTG  
CTCTTTGAGAAATGCGAGCAGTCCACTCAGAGCTCGGAGTGCCTGACCTCGGCCAGTTTCGATGTGGATATC  
GAGAACTTTGTGCGAAACCAGGAGAAGGAAGGCAAGGCTTCTTCAGCGAGGACCCTGATTTGGACAATC  
TGgtatgaagcaccttgttgcacataaaatgacattgaagtttcatcaccattggtaatcagcagcgcttagttaatgcacacctattcaataa  
aagtgagtttctaaataaacattttgttcaggaatgtgtgacgtatatgttg

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO920a: 1bp deletion, 6bp insertion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

```
WT          GCTCTTTGAGAAATGCGAGCAGTCCACTCAGAGCTCGGAGTGCCTGAACTCAGTCCGCGCC
ZKO920a     GCTCTTTGAGAAATGCGAGCAGTCCACTCAGAGCTCGGAGTGCCTGAACTCAGTCCGCGCC
*****
```

```
WT          AGTTTCGATGTGGATATCGAGAACT
ZKO920a     AGTTTCGATGTGGATATCGAGAACT
*****
```

### ZKO920b: 3bp deletion, 1bp insertion

CLUSTAL format alignment by MAFFT L-INS-i (v6.850b)

```
WT          GCTCTTTGAGAAATGCGAGCAGTCCACTCAGAGCTCGGAGTGCCTGACCTCGGCCAGTTT
ZKO920b     GCTCTTTGAGAAATGCGAGCAGTCCACTCAGAGCTCGGAGTGCCTG--TTCGCCAGTTT
*****
```

```
WT          CGATGTGGATATCGAGAACT
ZKO920b     CGATGTGGATATCGAGAACT
*****
```