

ZKO430

Target Position: exon 1

Sense Strand Sequence

gtgctgtagtaagtgggtgtgtctctcaacctataaatacaaccgtgagttcttttgacgtaaactagtgaggggaatctta
tcacccatctgtccacgccgttataggttaagctcatcaacttttttatattgatcaaagttatcttagatttagtttcatctta
aaataggttccatgctaaacttaagccagctgcatcctttaattaatacaattcaaattaaatgaagtaaaactgtattaa
actattaatacaatatctttattgctattttaggactgaaggacATGTCTCTCCGCGGAATTTTCGCGTTCCTG
CTCTTTCTCGCGTTCGCTCACAGCTCATCTTAACTGCTGAGTGCACCA GAGGAGCCAGGAG
GAAAGGAAGGAGGCAGGAAAGAAGAGGTGATAATAACATTAACGTGATGAAAGGAAAGTTC
ATAATCAATGACAAGACGCAGCAGTGCACGTGGGTGGCGCGGAGAGGACAAGTACACCA
TGAACGTTACATGCAAGCCTGGGAGCGGG GACGGATTCACCTGTAATA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

ZKO430a: 28bp deletion

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

```
WT          GTGCGTCTCACAGCTCATCTTAACTGCTGAGTGCACCAGAGGAGCCAGGAGGAAAGGAAG
ZKO430a     GTGCGTCTCACAGCTCATCTTAACTGCT-----GAAG
            *****
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```
WT          GAGGCAGGAAAGAAGAGGTGATAATAAC
ZKO430a     GAGGCAGGAAAGAAGAGGTGATAATAAC
            *****
```

ZKO430b: 19bp deletion

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

```
WT          TCACAGCTCATCTTAACTGCTGAGTGCACCAGAGGAGCCAGGAGGAAAGGAAGGAGGCAG
ZKO430b     TCACAGCTCATCTTAACTGCTGAGTGCACCAGAGGAGC-----CAG
            *****
```

```
WT          GAAAGAAGAGGTGATAATA
ZKO430b     GAAAGAAGAGGTGATAATA
            *****
```