

## ZKO1160

Target Position: exon 15

### Sense Strand Sequence

tggagaccaatacatatccacataatgtcagaaattactggtattgctatacttgacatttgggtcccagaatgttagg  
aacacaaggtttacaacacacagcagtaattttctctcatttttagTGCACCGATGCCGTACCTTATAGGAA  
TTCACCTCAGTCTGGCAGAGgtatgacagacgactcatatttctactacatttggactcagacactaatgggt  
gggtgttgggtgggtgtgtgtttagAGGGTGAAGAGTCGCGCTCTGGAGGATGTGGTCATTTTAA  
ACATCGACACCAACACCTTAGAGTCGCCTCATGAAGACCTGAAAAAGATACCGGCTGACGT  
Ggtgagacactttcacatcttaacacacacacacacactagggcaggggtgtccaaa cttttgagccgatggcca

ATCG: Exon/coding sequence

atcg: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : cas9 target site

### ZKO1160a: 4bp insertion

CLUSTAL format alignment by MAFFT E-INS-i (v7.215)

```
WT          TGTTGGGTGGGTGTGTGTTTGTAGAGGTGAAGAGTCGCGCTC----TGGAGGATGTG
ZKO1160a    TGTTGGGTGGGTGTGTGTTTGTAGAGGTGAAGAGTCGCGCTCAGAGTGGAGGATGTG
*****
```

```
WT          GTCATTTAAACATCGACACCAACACCTTAGAGTCGCCT
ZKO1160a    GTCATTTAAACATCGACACCAACACCTTAGAGTCGCCT
*****
```

### ZKO1160b: 8bp deletion

CLUSTAL format alignment by MAFFT G-INS-i (v7.215)

```
WT          TGTTGGGTGGGTGTGTGTTTGTAGAGGTGAAGAGTCGCGCTCTGGAGGATGTGGTCA
ZKO1160b    TGTTGGGTGGGTGTGTGTTTGTAGAGGTGAAGAG-----TGGAGGATGTGGTCA
*****
```

```
WT          TTTTAAACATCGACACCAACACCTTAGAGTCGCCT
ZKO1160b    TTTTAAACATCGACACCAACACCTTAGAGTCGCCT
*****
```