

## ZK0598

Target Position: exon 1

Sense Strand Sequence

AAGACTGTCCC**GAACTCAAG**CAAGCAGAACATGCATTTACTTTTCGTGTCTGAATCTATCCACGC  
TGGTGGTGTCTGTGCGCGTTGGCAGATTCAGGAGCGCGCTGCCACTACGGGCTGTCCGAC  
GTGCGGTCTGCCGGCGATGGAGAA**GGGCTCGGAGCAGCAGTACCTGG**TGGAGATCGCCAAA  
CAGCAGATCCTGAGCAA**ACTGCACTT**GCGGGAGAGGCCGAACATCACGCAGACGGTCCC  
GGCGGGCGCTCATGACGGCGCTACGGAAGCTCCACGCGGGCCGCATCCGACAGGACGGAA  
CCCTGGAGCTG**GAGAACAACCTGCCGAACT**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZK0598a: 5bp insertion

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

```
WT          CGGCGATGGAGAAGGGCTCGGAGCAGCAGT-----ACCTGGTGGAGATCGCCAAACAGCA
ZK0598a     CGGCGATGGAGAAGGGCTCGGAGCAGCAGTGGAGCACCTGGTGGAGATCGCCAAACAGCA
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