



## ZKO1169

Target Position: exon 1

Sense Strand Sequence

**CAGGTGATGGGTGTGGTTCT**GGGCGTGTCCGGCTGGGTGTTCTGGGATCGTGGTCT  
 GCATCGCCCCCTGGTGGCGCACGTCTGCATTTCGTGGGCGATGAGCTGGT**GGTGTC**  
**GCAGGTGCTGTGGG**AGGGGCTCTGGATGTCCTGTCTGTCTCGGAGCGGGGTCGCCTG  
 CAGTGTAATACTACGATTCGGGACTGGCGCTGTCAGGATCCATGCAGACGTGCC  
 GCGCGCTGTGCGTTTTGTCTCTGCTGCTGTGTGTGTTGGCGCTACCGC**TCTGCATC**  
**ACTGGCCTCAAG**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZKO1169a: 50 bp deletion + 7 bp insertion

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

WT	GTTCTGGGATCGTGGTCTGCATCGCCCCCTGGTGGCGCACGTCTGCATTTCGTGGGCGATGA
ZKO1169a	GTTCTGGGATCGTGGTCTGCATCGCCCCCTGGGATCGT----- ***** . **.
WT	GCTGGTGGTGTGCGAGGTGCTGTGGGAGGGGCTCTGGATGTCCTGTCTGTC
ZKO1169a	-----GTGGGAGGGGCTCTGGATGTCCTGTCTGTC *****

