

## ZK0371

Target Position: exon 1

Sense Strand Sequence

**gcttgctccataacctctg**aaaggcacgtaataattcacacacaagtgtgtgtatgtcacaccctgccagccaaaccaa  
gcgaaggtaggtagagtgtataaggttcgtaggggtgtaagaagatccctctgaccgctttatatctggttccagctctt  
tcctctctccgtctttatcgcgttcctcggtttctacctcctgttttaactttcatgcaaactcaaacgcgtggattattagc  
gatgaagctttaaactttatcttgcgctaaaacagcgcgtggtccttgattatatagcggaaagagaggcgcgctgcgg  
agtcgtgttactttgcgtctgaccggttacaggaggaggaggaatggggtgagcagtgaaATGCCAACTCTCTGGA  
AGCAGATCGTGTTCCTTCGCTTCGATACTCAGCATCGGCTCTGTGGTGCTTCTGGTCGTGGC  
TCTGTCCACCGAGCGCTGGGTCACCGGGACCACGTT**GTGCCAGACAGGAGTGGATC**TGGTG  
AACGCGTCACGGCCGGAGCTGGAGCAGTTCCTGGACACATTTACTACGGCCTCTCCAGGG  
GGGCAAACACGCAGATGCGGCCTCGGAATCCGCCGCGGAAAATATACgtaaga**agttgagtc**  
**atcatagagattcc**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

**atcg** : Forward/Reverse primer

**atcg** : cas9 target site

### ZK0371a: 8bp insertion

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

```
WT          CGGGACCACGTTGTGCCAGACAGGAGTG-----GATCTGGTGAACGCGTCACGGCCG
ZK0371a     CGGGACCACGTTGTGCCAGACAGGAGTGGAAGAGGTGATCTGGTGAACGCGTCACGGCCG
            *****
            *****

WT          GAGCTGGA
ZK0371a     GAGCTGGA
            *****
```