

CZ1219: *ihb319*

tnfrsf1a

Target Position: exon 10

Sense Strand Sequence

```
aggcttgagtaatgggtgcttaatgattcgtgtctctctctgctatttgcagTTCACGAGTTC
TTCTATTTTGTGCTGGACGAGGTCCCTATCGGACGATTTAAAGAGCTTGTACGTCGGCTTGGAGTT
TCTGAGCAGAACATTGACCGGGCAGAACATGACCACCGGAACTGCAAGGACGCCAGTATCAGA
TGCTGAAAGTTTGGAGTGATGGTGGCAGTGGAGGAGGGAACAATGTTGTGCCGTATGACCAAAT
CCAGATGCTCATGAGCACACTGAAAGACATGTGTCTGGTTAGCTGCGCAGATAACATTGAGAACA
AGTTCCTTTCACAGAACACAAGCGTTTCGTAATGAGGACATCGGAGGAGAATGGAGAACAGGGC
ATTAACAGAGATCTTTAACTTCCACTCGTTCGCATTGGATTTCATT
```

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Cas9 target site

ihb319: 7bp insertion

>WT

```
AGATGCTGAAAGTTTGGAGTGATGGTGGCAGTGGAGGAGGGAACAATGTTGTGCCGTATGACCAAATCCAGA
```

> ihb319

```
AGATGCTGAAAGTTTGGAGTGATGGTGGCAGGGAACAATGGAGGAGGGAACAATGTTGTGCCGTATGACCAAATCCAGA
```

```
WT          AGATGCTGAAAGTTTGGAGTGATGGTGGCAG-----TGGAGGAGGGAACAATGTTGTG
ihb319      AGATGCTGAAAGTTTGGAGTGATGCTGGCAGGGAACAATGGAGGAGGGAACAATGTTGTG
*****
```

```
WT          CCGTATGACCAAATCCAGA
ihb319      CCGTATGACCAAATCCAGA
*****
```