



## ***foxp3a*<sup>ihb419/+</sup> (CZRC catalog ID: CZ1290)**

### **Nature of the mutation**

Between 420 bp to 424 bp of the wild-type *foxp3a* coding sequence, GAATC are deleted in exon 5.

### **Sense Strand Sequence**

AGTGCTCATGATTGGGTTGTGGACACCGTGTGTAAGACAGAACCTGACAGTGAAC  
CATCAGATGCCATCCCTCTTTACTTGGCCAGTCTGAAAGCAGAATCGGTGCTTAT  
GCGTCAAGCCCTCAGCCTGGCAGCCCGGAGTATACTGGGAAgtgagtatgtagtttgagaaaac  
aacacaaattagatattcagtgctggaatgaaatgtggacatccactttgtaacattattgtgtctatattcatttcaacaataag  
atataatgcaatatgtttgagctaaattaagcattattattattatccgcagGCATCCATATAGTCTTTCAGGTGACT  
ATCTGTGTGTTAAAGGACAATGCAGATGGCCAGGGTGCTCAAAGAGCGAAGATGT  
ATTCACAGAATATGGACATTTCTTAAggtgagacacaaagttaactaaaacaatctaaataaacagcaatc  
ctatagcagtgctgtctgttcataatctagccaccttctactgacca

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

### **Genotyping assay**

#### **Primers:**

**foxp3a\_forward:** 5' AGTGCTCATGATTGGGTT 3'

**foxp3a\_reverse:** 5' tggtcagtagaaaggtgc 3'

#### **PCR program:**

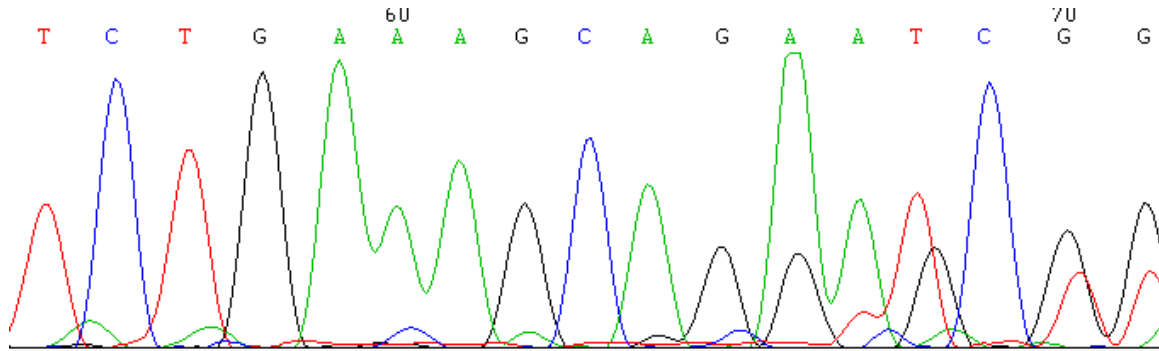
95°C	5min	
95°C	30 sec	} 30 Cycles
56°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

**Product size: 528 bp**





**The sequencing results of the CZ1290:**



WT	CATCAGATGCCATCCCTCTTTACTGCGCCAGTCTGAAAGCAGAATCGGTGCTTAT
CZ1290	CATCAGATGCCATCCCTCTTTACTGCGCCAGTCTGAAAGCA-----GGTGCTTAT
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