

## ***cdc6<sup>tsu21cd/+</sup> (CZRC catalog ID: CZ406)***

### **Nature of the mutation**

In the wild-type *cdc6* coding sequence, AAGCAGCGCTGCGCTCCTCTG is deleted in exon 2. The mutated *cdc6* codes for a truncated protein containing 554 aa, of which 361 aa are identical to wildtype *cdc6*.

### **Sense Strand Sequence**

agGTGATGAGAATGGCTGTAACCTGCCAGCCTCATGCTTGGCTCTCCCCCTAACGCAG  
CGCTGCGCTCCTCTGTGCTCCCCTCGCAAGCTGTCCCTCAACGAGAACACACCCAGTCC  
TCTCCTCACCTCCCCGT CCTATCCTGTCCCTCGCACAAAGTTCCCTGTCTCCATTCT  
CGTCCATGCCAACACGACTGAACGAGACATCATGCACCAACATAATCCCCGTACA  
GAGGGAAGGAGCCCTGTTACGCGACTGTTCCCTATAAAGA

**Uppercase:** Exon/coding sequence

**Lowercase:** intron/noncoding sequence

**atcg:** Forward/Reverse primer

### **Genotyping assay**

#### **Primers:**

**CZ406\_WT\_forward:** 5' GCTTGGCTCTCCCCCTAACGCAG 3'

**CZ406\_Mu\_forward:** 5' GCTTGGCTCTCCCCCTCTCT 3'

**CZ406\_reverse:** 5' AGGAAACAGTCGCGTAACAG 3'

#### **PCR program:**

95°C 5min  
95°C 30 sec  
58°C 30 sec  
72°C 30 sec } 30 Cycles  
72°C 8min  
4°C hold

**Product size: WT 229 bp; Mu 208bp**

### The sequencing results of the CZ406:

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.397)

WT	gGTGATGAGAATGGCTGTAACCTGCCAGCCTCCATGCTTGGCTCTCCCCCTAAGCAGCGC
CZ406	gGTGATGAGAATGGCTGTAACCTGCCAGCCTCCATGCTTGGCTCTCCCCCT-----
	*****
WT	TGCGCTCCTCTG
CZ406	-----
	*****
WT	TCACCTCCCCGT CCTATCCTGTCCTCGCACAAAGTT CCTCTGTCTCCCATTCTCGTCCA
CZ406	TCACCTCCCCGT CCTATCCTGTCCTCGCACAAAGTT CCTCTGTCTCCCATTCTCGTCCA
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### Reference:

Yao Lk, et al. Human Molecular Genetics 26:4168-4180