

cdc6^{tsu7cd/+} (CZRC catalog ID: CZ405)

Nature of the mutation

In the wild-type *cdc6* coding sequence, GACATGAGCG is deleted in exon 3. The mutated *cdc6* codes for a truncated protein containing 141 aa, of which 361 aa are identical to wildtype *cdc6*.

Sense Strand Sequence

agGTGATGAGAATGGCTGTAACCTGCCAGCCTCCATGCTTGGCTCTCCCCCTAAGCAG
CGCTGCGTCTCTGTGCTCCCCTCGCAAGCTGTCTTCAACGAGAACACACCAGTCC
TCTCTCACCTCCCCGTCCTATCCTGTCCTCGCACAAAGTTCTCTGTCTCCATTCT
CGTCCATCGCCAACGACTGAACGAGACATCATGCACCAACATAATCCCCCGTACA
GAGGGAAGGAGCCCTGTTACGCGACTGTTTCCTATAAAGA

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg: Forward/Reverse primer

Genotyping assay

Primers:

CZ405_forward: 5' AGGTGATGAGAATGGCTGTA 3'

CZ405_reverse: 5' TCTTTATAGGAAACAGTCGC 3'

PCR program:

95°C 5min

95°C 30 sec

58°C 30 sec

72°C 30 sec

72°C 8min

4°C hold

} 30 Cycles

Product size: 272 bp

The sequencing results of the CZ405:

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

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WT          gGTGATGAGAATGGCTGTAACCTGCCAGCCTCCATGCTTGGCTCTCCCCCTAAGCAGCGC
CZ405       gGTGATGAGAATGGCTGTAACCTGCCAGCCTCCATGCTTGGCTCTCC-----CAGCGC
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WT          TCGCTCCTCTGTGCTCCCCTCGCAAGCTGTCCTTCAACGAGAACACACCAGTCCCTCCTCC
CZ405       TCGCTCCTCTGTGCTCCCCTCGCAAGCTGTCCTTCAACGAGAACACACCAGTCCCTCCTCC
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Reference:

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