

# Human CA III Gene cDNA clone plasmid



**Sino Biological Inc.**

Biological Solution Specialist

Catalog Number: HG10503-M

## General Information

**Gene :** carbonic anhydrase III, muscle specific  
**Official Symbol :** CA3  
**Synonym :** Car3, CAIII  
**Source :** Human  
**cDNA Size:** 783bp  
**RefSeq :** NM\_005181.3  
**Plasmid:** pMD-CA331V/I

## Description

**Lot :** Please refer to the label on the tube

### Sequence Description :

Identical with the Gene Bank Ref. ID sequence except for the point mutation 91G/A resulting in the amino acid 31Val substitution by Ile.

### Vector :

pMD18-T Simple

### Shipping carrier :

Each tube contains approximately 10 µg of lyophilized plasmid.

### Storage :

The lyophilized plasmid can be stored at ambient temperature for three months.

### Quality control :

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

### Sequencing primer list :

M13-47 : 5' GCCAGGGTTTCCAGTCACGAC 3'

RV-M : 5' GAGCGGATAACAATTCACACAGG 3'

Other M13 primers can also be used as sequencing primers.

## Plasmid Resuspension protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add 100 µl of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 °C.

### The plasmid is ready for:

- Restriction enzyme digestion
- PCR amplification
- *E. coli* transformation
- DNA sequencing

## *E. coli* strains for transformation (recommended but not limited)

Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5α and TOP10F'.

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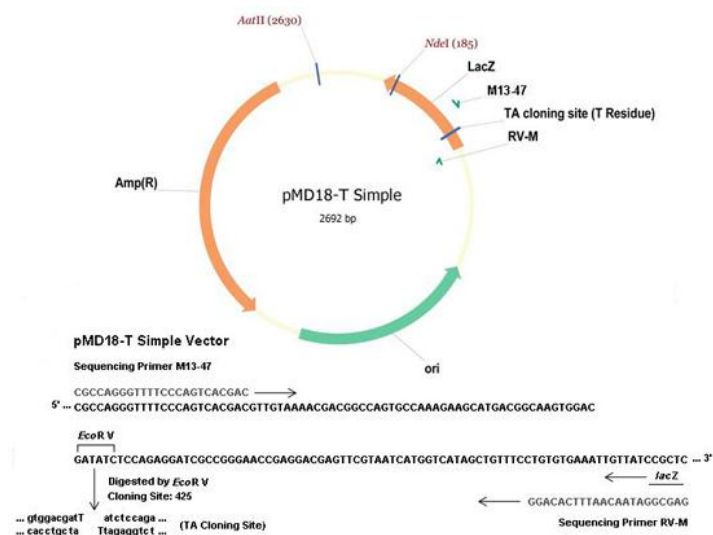
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## Vector Information

pMD18-T Simple Vector is a high-efficiency TA cloning vector constructed from pUC18, of which the initial multiple cloning sites (MCS) were destroyed. The pMD18-T Simple Vector is 2.6kb in size and contains the ampicin resistance gene for selection. The coding sequence was inserted by TA cloning at site 425.

## Physical Map of pMD18-T Simple (MCS destroyed) :



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