# Rat CD40 Gene cDNA clone plasmid

Catalog Number: RG80151-G

## **General Information**

Gene :	CD40 mo superfamily r	olecule, member 5	TNF	receptor
Official Symbol:	CD40			
Synonym :	Tnfrsf5, Cd4	0		
Source :	Rat			
cDNA Size:	870bp			
RefSeq :	NM_134360.	.1		
Plasmid:	pGEM-ratCD	040		

#### Description

Lot : Please refer to the label on the tube

#### **Sequence Description :**

Identical with the Gene Bank Ref. ID sequence except for two point mutations: 368 C/G resulting in the amino acid thr substitution by arg and 423 T/C not causing the amino acid variation.

#### Vector :

pGEM-T

#### 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' GCCAGGGTTTTCCCAGTCACGAC 3'
RV-M :	5' GAGCGGATAACAATTTCACACAGG 3'

Other M13 primers can also be used as sequencing primers.



## **Plasmid Resuspension protocol**

1.Centrifuge at  $5,000 \times g$  for 5 min.

2.Carefully open the tube and add 100  $\mu l$  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  $5000 \times g$ . 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, DH5  $\alpha$  and TOP10F  $\dot{}$  .

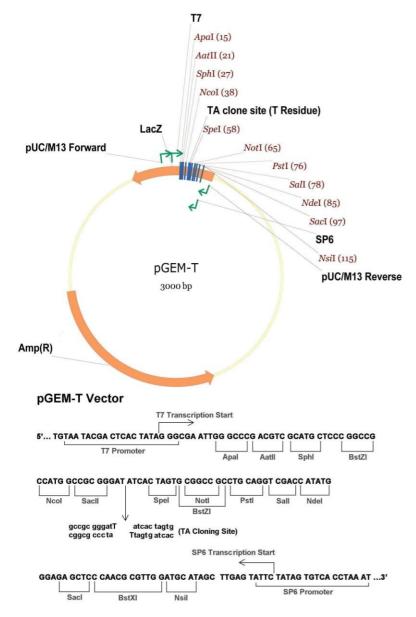
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### Vector Information

The pGEM-T vector is a high-efficiency TA cloning vector which contains multiple cloning sites as shown below. The pGEM-T vector is 3.0kb in size and contains the amplicin resistance gene for selection. The coding sequence was inserted by TA cloning.

#### Physical Map of pGEM-T :



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