

Rat TNF α Gene cDNA clone plasmid



Sino Biological Inc.

Biological Solution Specialist

Catalog Number: RG80045-M

General Information

Gene :	tumor necrosis factor (TNF superfamily, member 2)
Official Symbol :	TNF
Synonym :	Tnfa, RATTNF, MGC124630, TNF-alpha, Tnf
Source :	Rat
cDNA Size:	708bp
RefSeq :	NM_012675.3
Plasmid:	pMD-ratTNF2

Description

Lot : Please refer to the label on the tube

Sequence Description :

Identical with the Gene Bank Ref. ID sequence except for three point mutations: 303 G/A, 453 C/T and 519 T/C not causing the amino acid variation.

Vector :

pMD18-T Simple

Shipping carrier :

Each tube contains approximately 10 μ g 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' GCCAGGGTTTCCCAGTCACGAC 3'

RV-M : 5' GAGCGGATAACAATTCACACAGG 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 μ 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 $^{\circ}$ 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 α and TOP10F'.

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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 amplicin 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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