

Mouse TNF α ORF mammalian expression plasmid, N-Flag tag



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: MG50349-NF

General Information

Gene : tumor necrosis factor
Official Symbol : TNF
Synonym : DIF, Tnfa, TNFSF2, Tnfsf1a, TNFalpha, MGC151434, TNF-alpha, Tnf
Source : Mouse
cDNA Size: 708bp
RefSeq : NM_013693.2
Plasmid: pCMV3-Flag-mTNF

Description

Lot : Please refer to the label on the tube

Sequence Description :

Identical with the Gene Bank Ref. ID sequence.

Restriction site: KpnI + XbaI (6kb + 0.79kb)

Vector : pCMV3-SP-N-FLAG

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 :

pCMV3-F:	5' CAGGTGTCCACTCCCAGGTCCAAG 3'
pcDNA3-R :	5' GGCAACTAGAAGGCACAGTCGAGG 3'
Or	
Forward T7 :	5' TAATACGACTCACTATAGGG 3'
ReverseBGH :	5' TAGAAGGCACAGTCGAGG 3'

pCMV3-F and pcDNA3-R are designed by Sino Biological Inc.
Customers can order the primer pair from any oligonucleotide supplier.

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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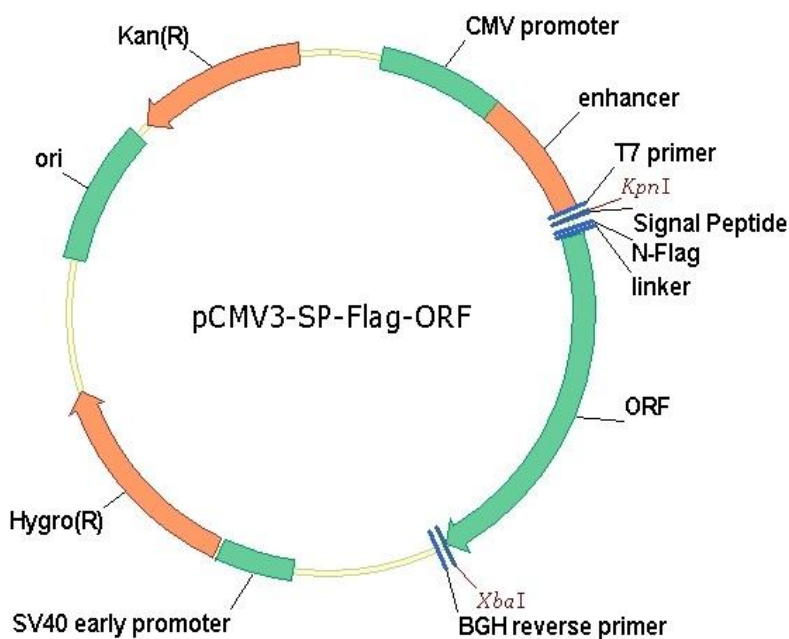
Vector Information

All of the pCMV vectors are designed for high-level stable and transient expression in mammalian hosts. High-level stable and non-replicative transient expression can be carried out in most mammalian cells. The vectors contain the following elements:

- Human enhanced cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.
- Hygromycin resistance gene for selection of mammalian cell lines.
- A Kozak consensus sequence to enhance mammalian expression.

Vector Name	pCMV3-SP-N-FLAG
Vector Size	6143bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	FLAG

Physical Map of Plasmid :



Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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Physical Map



Comments for pCMV3-SP-N-FLAG:

CMV promoter: bases 250-837
enhancer: bases 838-1445
SV40 early promoter: bases 2384-2753
Hygromycin ORF: bases 2771-3793
pUC origin: bases 4439-5112
Kanamycin ORF: bases 5186-6001

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Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	FLAG
Sequencing Primer	Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG)

Schematic of pCMV3-SP-N-FLAG Multiple Cloning Sites



pCMV3-SP-N-Flag is recommended for constructing the N-FLAG tag secretory and membrane proteins expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.