# Mouse MDK ORF mammalian expression plasmid, N-Flag tag



**Catalog Number:** MG53391-NF

**General Information** 

Gene: midkine

Official Symbol: **MDK** 

Synonym: MK; Mek

Mouse Source:

cDNA Size: 423bp

RefSeq: NM 001012336.2

**Description** 

Lot: Please refer to the label on the tube

Vector: pCMV3-SP-N-FLAG

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:** 

ReverseBGH:

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'

Forward T7: 5' TAATACGACTCACTATAGGG 3'

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

5' TAGAAGGCACAGTCGAGG 3'

### **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.
- 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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#### **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

Hygromycin

Promoter CMV

Antibiotic Resistance Kanamycin

Selection In Mammalian Cells

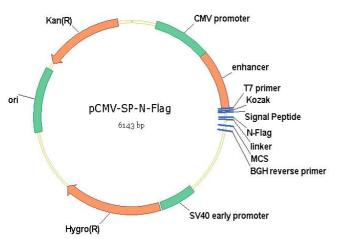
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Protein Tag FLAG

# **pCMV3-SP-N-FLAG** (suitable for secretary and membane protein expession)



### **Physical Map**



### Comments for pCMV3-SP-N-FLAG:

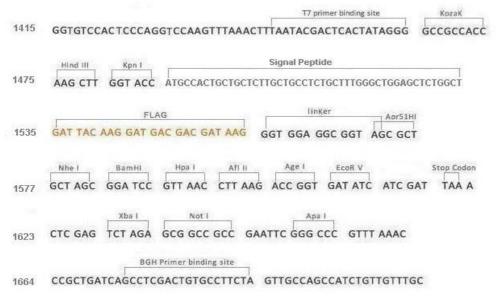
CMV promoter: bases 250-837 enhancer: bases 838-1445

SV40 early promoter: bases 2384-2753 Hygromycin ORF: bases 2771-3793 pUC origin: bases 4439-5112 Kanamycin ORF: bases 5186-6001

### Description

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
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 secretary and membrane proteins expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.