# Rat CNTN5 ORF mammalian expression plasmid, N-Myc tag



Catalog Number: RG80409-NM

### **General Information**

| Gene :            | contactin 5 |
|-------------------|-------------|
| Official Symbol : | CNTN5       |

| Synonym :  | Nb-2, Cntn5 |
|------------|-------------|
| Source :   | Rat         |
| cDNA Size: | 3300bp      |

RefSeq : NM\_053746.1

### Description

| Lot : Please refer to the label on the tub |
|--|
|--|

Vector : pCMV3-SP-N-Myc

### Shipping carrier :

Each tube contains approximately 10  $\mu$ 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  $\mu$ l of sterile water to dissolve the DNA.
- 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 $\alpha$  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.

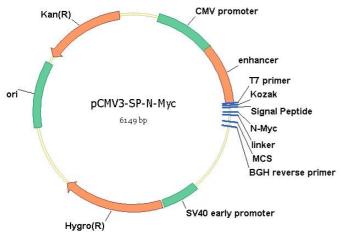
| Vector Name                     | pCMV3-SP-N-Myc                  |
|---------------------------------|---------------------------------|
| Vector Size                     | 6149bp                          |
| Vector Type                     | Mammalian Expression Vector     |
| Expression Method               | Constiutive, Stable / Transient |
| Promoter                        | CMV                             |
| AntibioticResistance            | Kanamycin                       |
| Selection In<br>Mammalian Cells | Hygromycin                      |
| Protein Tag                     | Mvc                             |

### pCMV3-SP-N-Myc (suitable for secretary

and membane protein expession)



### **Physical Map**



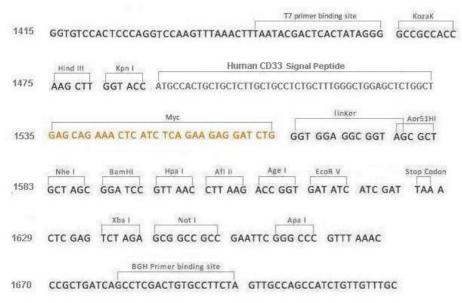
### Comments for pCMV3-SP-N-Myc:

CMV promoter: bases 250-837 enhancer: bases 838-1445 SV40 early promoter: bases 2390-2759 Hygromycin ORF: bases 2777-3802 pUC origin: bases 4445-5118 Kanamycin ORF: bases 5192-6007

### Description

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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                  | Мус   |
| Sequencing Primer            | Forward:T7(TAATACGACTCACTATAGGG)<br>Reverse:BGH(TAGAAGGCACAGTCGAGG) |

### Schematic of pCMV3-SP-N-Myc Multiple Cloning Sites



pCMV3-SP-N-Myc is recommended for constructing the N-Myc 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.