

# Mouse NMNAT1 ORF mammalian expression plasmid, N-HA tag



**Sino Biological Inc.**

Biological Solution Specialist

Catalog Number: MG59238-NY

## General Information

**Gene :** Full length Clone DNA of *Mus musculus* nicotinamide nucleotide adenyllyltransferase 1

**Official Symbol :** NMNAT1

**Synonym :** RP23-173D8.7, 2610529L11Rik, 5730441G13Rik, D4Cole1e, nmnat

**Source :** Mouse

**cDNA Size:** 858bp

**RefSeq :** NM\_133435.1

## Description

**Lot :** Please refer to the label on the tube

**Vector :** pCMV3-N-HA

### 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.
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 $\alpha$  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-N-HA
Vector Size	6101bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	HA