# Mouse 1300017J02RIK ORF mammalian expression plasmid, N-HA tag



Catalog Number: MG51393-NY

**General Information** 

Gene: RIKEN cDNA 1300017J02 gene

Official Symbol: 1300017J02RIK

Synonym: Ica, mICA

Source: Mouse

cDNA Size: 2103bp

**RefSeq:** NM\_027918.2

**Description** 

Lot: Please refer to the label on the tube

Vector: pCMV3-SP-N-HA

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:** 

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 $^{\prime}$ .

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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-HA

Vector Size 6146bp

Vector Type Mammalian Expression Vector Expression Method Constiutive, Stable / Transient

Promoter CMV

Antibiotic Resistance Kanamycin

Selection In Mammalian Cells

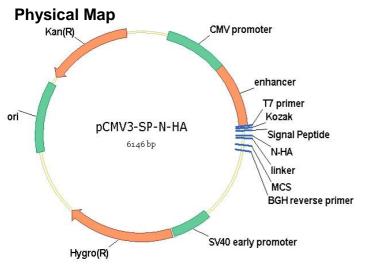
Protein Tag

HA

Hygromycin

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





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

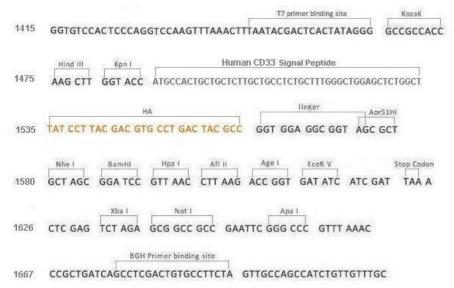
CMV promoter: bases 250-837 enhancer: bases 838-1445

SV40 early promoter: bases 2387-2756 Hygromycin ORF: bases 2774-3799 pUC origin: bases 4442-5115 Kanamycin ORF: bases 5189-6004

#### **Description**

Vector Name	pCMV3-SP-N-HA
Vector Size	6146bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	HA
Sequencing Primer	Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG)

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



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