

# pCMV / hygro-Positive Control Vector (C-terminal Fc-FLAG tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: CV010

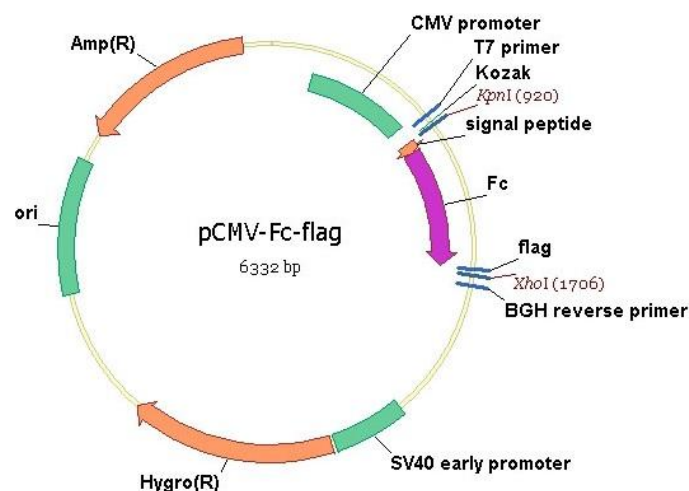
## Vector Information

- Positive control for the pCMV / hygro-HA.
- Designed for mammalian expression, stable or transient.
- Hygromycin resistance gene for selection of stable cell lines.

## Description

Vector Name	pCMV / hygro-Positive Control Vector (C-terminal Fc-FLAG tag)
Vector Size	6332bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Ampicillin
Selection In Mammalian Cells	Hygromycin
Protein Tag	Flag
Sequencing Primer	Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCACAGTCGAGG)

## Physical Map



## pCMV / hygro-Positive Control Vector (C-terminal Fc-Myc tag) Sequence and Quality Control

```
1      ATGGGCTGGT CCTGCAATCAT CCTGTTCCCTC GTGGCGACCG CGACCGGGGT CCACAGC1GAG
61     CCCAAATCTT CTGACAAAAC TCACACATGC CCACCGTGCC CAGCACCTGA ACTCCTGGGG
121    GGACCGTCAG TCTTCCTCTT CCCCCCAAAA CCAAGGACA CCCTCATGAT CTCCCGGACC
181    CCTGAGGTCA CGTGCCTGGT GGTGGACGTG AGCCACGAAG ACCCGAGGT CAAGTTCAAC
241    TGGTACGTGG ACGGCGTGGA GGTGCATAAT GCCAAGACAA AGCCGCGGGA GGAGCAGTAC
301    AACAGCACGT ACCGTGTGGT CAGCGTCTTC ACCGTCTGTC ACCAGGACTG GCTGAATGGC
361    AAGGAGTACA AGTGCAAGGT CTCCAACAAA GCCCTCCCAG CCCCATCGA GAAAACCATC
421    TCCAAAGCCA AAGGGCAGCC CCGAGAACCA CAGGTGTACA CCCTGCCCCC ATCCCGGGAT
481    GAGCTGACCA AGAACCAGGT CAGCCTGACC TGCCTGGTCA AAGGCTTCTA TCCCAGCGAC
541    ATCGCCGTGG AGTGGGAGAG CAATGGGCAG CCGGAGAACA ACTACAAGAC CACGCCTCCC
601    GTGCTGGACT CCGACGGCTC CTTCTTCCTC TACAGCAAGC TCACCGTGGA CAAGAGCAGG
661    TGGCAGCAGG GGAACGTCTT CTCATGCTCC GTGATGCATG AGGCTCTGCA CAACCACTAC
721    ACGCAGAAGA GCCTCTCCCT GTCTCCGGGT AAAGCT2GATT ACAAGGATGA CGACGATAAG3
781    TAA
```

1. Signal peptide

2. GCT was the nucleotide residue from the restriction site during plasmid construction, which has no influence on protein expression.

3. FLAG Tag

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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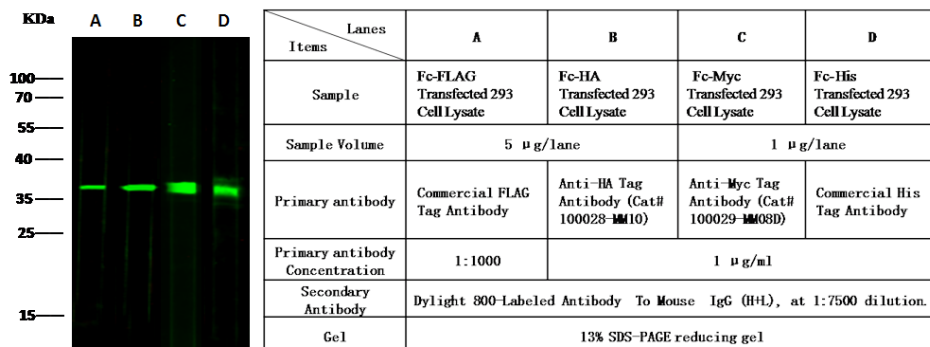
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## Detect Positive Control Vector Expression by Western Blot



### Protocol :

The 6  $\mu$ g of plasmid was transfected into 20 ml of HEK293H suspension cells with Sinofection reagent (Cat# STF01). Expression cells were cultured for 4d at 37°C (5% CO<sub>2</sub>). The  $2 \times 10^7$  of cells were lysed in 1 ml of ice-cold modified RIPA Lysis Buffer with protease inhibitors cocktail (Sigma) by homogenization. The protein concentration of cell lysate was measured by BCA kit, and 1~5  $\mu$ g of lysate were detected by western blotting using specific anti-tag antibody.

## Plasmid Resuspended Protocol

1. Centrifuge the tube for 5~10 min at 4,000 rpm.
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 4000 rpm.
5. Store the plasmid at -20 °C.

## *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'.

## Storage

The lyophilized plasmid can be stored at ambient temperature for three months.