General Information

Gene: complement component 7
Official Symbol: C7
Synonym: C7
Source: Human
cDNA Size: 2532bp
RefSeq: BC063851

Lot: Please refer to the label on the tube
Vector: pCMV3-SP-N-Myc
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’ CAGGTGTCCACTCCAGGTCCAAG 3’
pDNA3-R: 5’ GGCCTAAGGACAGCTGAGG 3’

Or
Forward T7: 5’ TAATACGACTCACTATAGGG 3’
ReverseBGH: 5’ TAGAAGGACAGCTGAGG 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.
4. 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’.

Catalog Number: HG13848-NM

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.
Fax: +86-10-51029969  ●  Tel: +86- 400-890-9989  ●  http://www.sinobiological.com
Human C7 ORF mammalian expression plasmid, N-Myc tag

Catalog Number: HG13848-NM

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.

<table>
<thead>
<tr>
<th>Vector Name</th>
<th>pCMV3-SP-N-Myc</th>
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<tr>
<td>Vector Size</td>
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<tr>
<td>Vector Type</td>
<td>Mammalian Expression Vector</td>
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<td>Expression Method</td>
<td>Constitutive, Stable / Transient</td>
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<tr>
<td>Promoter</td>
<td>CMV</td>
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<td>Antibiotic Resistance</td>
<td>Kanamycin</td>
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<td>Selection in Mammalian Cells</td>
<td>Hygromycin</td>
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<tr>
<td>Protein Tag</td>
<td>Myc</td>
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</table>
**pCMV3-SP-N-Myc** (suitable for secretary and membrane protein expression)

**Physical Map**

![Physical Map Diagram](image)

**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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<td>Sequencing Primer</td>
<td>Forward:T7(TAATACGACTCACTATAGGG) Reverse:BGH(TAGAAGGCAAGCTCGAGG)</td>
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**Schematic of pCMV3-SP-N-Myc Multiple Cloning Sites**

```
1115  GGTGTCACCTCCAGGTCAAGTTAACTTTAACATTACAGCTCaCTATAGGG  GCCGCGACC

1475  AAG GTC ACC ATGCCACTGCTGCTTGTGCTCTGCTTTGGGCTGGAGCTTGCTGCT

1535  GAG CAG AAA CTC ATC TCA GAA GAG GAT CTA

1583  GTT ACC GGA TCC GTT AAC CTT AAG ACC GGT GAT ATC ATC GAT TAA A

1629  CTC GAG TCT AGA GGC GCC GGC GAATT C GG Globin B Prime binding site

1704  CCGCTGATCGGCCTCGTGGCTCTCTA GTTGGCCAGCCATCTGTGTGGTGG
```

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.