### General Information

**Gene**: coagulation factor C homolog (Limulus polyphemus)

**Official Symbol**: COCH

**Synonym**: AW122937, Coch-5B2, D12H14S564E, Coch

**Source**: Mouse

**cDNA Size**: 1659bp

**RefSeq**: NM_007728.5

**Description**

- **Lot**: Please refer to the label on the tube
- **Vector**: pCMV3-SP-N-FLAG
- **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**:

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV3-F</td>
<td>5’ CAGGTGTCCACTCCAGGTCAAAG 3’</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGCAACTAGAAGGCACAGTCGAGG 3’</td>
</tr>
</tbody>
</table>

Or

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward T7</td>
<td>5’ TAATACGACTCCTATAGGG 3’</td>
</tr>
<tr>
<td>ReverseBGH</td>
<td>5’ TAGAAGGACAGTCGAGG 3’</td>
</tr>
</tbody>
</table>

**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’.

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Fax: +86-10-51029969  ●  Tel: +86-400-890-9989  ●  http://www.sinobiological.com
**Mouse COCH ORF mammalian expression plasmid, N-Flag tag**

**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-FLAG</th>
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<tbody>
<tr>
<td>Vector Size</td>
<td>6143bp</td>
</tr>
<tr>
<td>Vector Type</td>
<td>MammalianExpression Vector</td>
</tr>
<tr>
<td>Expression Method</td>
<td>Constuitive, Stable / Transient</td>
</tr>
<tr>
<td>Promoter</td>
<td>CMV</td>
</tr>
<tr>
<td>Antibiotic Resistance</td>
<td>Kanamycin</td>
</tr>
<tr>
<td>Selection in Mammalian Cells</td>
<td>Hygromycin</td>
</tr>
<tr>
<td>Protein Tag</td>
<td>FLAG</td>
</tr>
</tbody>
</table>
## pCMV3-SP-N-FLAG (suitable for secretary and membrane protein expression)

### Physical Map

![Physical Map](image)

### Description

<table>
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<tr>
<th>Description</th>
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<td>Protein Tag</td>
<td>FLAG</td>
</tr>
<tr>
<td>Sequencing Primer</td>
<td>Forward: T7(TAATACGACTCACTATAGGG) Reverse: BGH(TAGAAGGCACAGTCGAGG)</td>
</tr>
</tbody>
</table>

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

![Schematic](image)

pCMV3-SP-N-Flag is recommended for constructing the N-FLAG tag secretory and membrane protein expression vector which containing a naïve signal peptide. An universal signal peptide is used to instead the naïve signal peptide.

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

- CMV promoter: bases 250-837
- enhancer: bases 838-1445
- SV40 early promoter: bases 2384-2753
- Hygromycin ORF: bases 2771-3793
- pUC origin: bases 4439-5112
- Kanamycin ORF: bases 5186-6001