Mouse CX3CL1 ORF mammalian expression plasmid, N-Myc tag

Catalog Number: MG50917-NM

General Information

Gene: chemokine (C-X3-C motif) ligand 1
Official Symbol: CX3CL1
Synonym: CX3C, Cxc3, Scydl, ABCD-3, AB030188, A1848747, D8Bwg0439e, Cx3cl1
Source: Mouse
cDNA Size: 1188bp
RefSeq: NM_009142.3

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’.

Description

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:

<table>
<thead>
<tr>
<th>Primer</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>pCMV3-F</td>
<td>5’ CAGGTGTCCACTCCAGGTCCAAG 3’</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGCAACTAGAAGGCACAGTCGAGG 3’</td>
</tr>
<tr>
<td>Forward T7</td>
<td>5’ TAATACGACTCACTATAGGG 3’</td>
</tr>
<tr>
<td>Reverse BGH</td>
<td>5’ TAGAAGGCACAGTCGAGG 3’</td>
</tr>
</tbody>
</table>

Or

pCMV3-F and pcDNA3-R are designed by Sino Biological Inc. Customers can order the primer pair from any oligonucleotide supplier.

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
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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.

<table>
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<tr>
<th>Vector Name</th>
<th>pCMV3-SP-N-Myc</th>
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<tbody>
<tr>
<td>Vector Size</td>
<td>6149bp</td>
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<tr>
<td>Vector Type</td>
<td>Mammalian Expression Vector</td>
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<td>Expression Method</td>
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<td>Promoter</td>
<td>CMV</td>
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<td>Antibiotic Resistance</td>
<td>Kanamycin</td>
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<td>Hygromycin</td>
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<tr>
<td>Protein Tag</td>
<td>Myc</td>
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**pCMV3-SP-N-Myc** (suitable for secretary and membrane protein expression)

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

```
1145   GGTGCCACTCCAGCTCAAGTTAACTTTTAAATACGACTCACTATAGGG
       GCCGCCACC

      HpaI
      KpnI

      Human CD33 Signal Peptide

1475   AAG CTT   GGT ACC   ATGCCACTGCTGCTTGGCTCGCTTGG GCCGCTGCT

      T7 primer binding site

1535   GAG CAG   AAA CTC   ATC TCA GAA GAG GAT CTG

      Myc

      Linker

      HpaI

1583   GCT AGC   GGA TCC   GTC AAG   CTIAACC   ACC GGT   GAT ATC   ATC GAT   TAA A

      EcoR V

      Stop Codon

1629   CTC GAG   TCT AGA   GGC GCC   GCC GAATTCC   GGG CCC   GTTT AAAC

      Nhe I

      BamH I

      Not I

      Apa I

1670   CCCTGATCATGCCCTCTGACTGGCTCTCTA

      BGH Primer binding site
```

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.