Human LAYN / Layilin ORF mammalian expression plasmid, N-His tag

Catalog Number: HG10208-NH

General Information
Gene: layilin
Official Symbol: LAYN
Synonym: LAYN, FLJ30977, FLJ31092
Source: Human
cDNA Size: 1125bp
RefSeq: NM_178834.3

Description
Lot: Please refer to the label on the tube
Vector: pCMV3-SP-N-His
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’ GGCAACTAGAAGGCACAGTGGAGG 3’
Or
Forward T7: 5’ TAATACGACTCATATAGGG 3’
Reverse BGH: 5’ TAGAAGGCACAGTGGAGG 3’

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’.

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.

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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>
<thead>
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<th>Vector Name</th>
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<tbody>
<tr>
<td>Vector Size</td>
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<td>His</td>
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pCMV3-SP-N-His (suitable for secretary and membrane protein expression)

Physical Map

Comments for pCMV3-SP-N-His:
- 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

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Schematic of pCMV3-SP-N-His Multiple Cloning Sites

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