Rat AIMP1 natural ORF mammalian expression plasmid

Catalog Number: RG83164-UT

General Information

Gene: aminoacyl tRNA synthetase complex-interacting multifunctional protein 1.

Official Symbol: AIMP1

Synonym: Emap2, Scye1

Source: Rat

cDNA Size: 948bp

RefSeq: NM_053757.1

Plasmid: pCMV3-ratAIMP1

Description

Lot: Please refer to the label on the tube

Sequence Description:

Identical with the Gene Bank Ref. ID sequence.

Restriction site: KpnI + NotI (6.1kb + 0.95kb)

Vector: pCMV3-untagged

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’ CAGGTGTCACCTCAGGTCAAG 3’</td>
</tr>
<tr>
<td>pcDNA3-R</td>
<td>5’ GGAACCTAGAAGGCACAGTCGAGG 3’</td>
</tr>
</tbody>
</table>

Or

Forward T7: 5’ TAATACGACTCACTATAGGG 3’

ReverseBGH: 5’ TAGAAGGCACAGTCGAGG 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’.
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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.

Physical Map of Plasmid:

[Diagram of plasmid map with key elements labeled, including pCMV3-ORF, CMV promoter, enhancer, T7 primer, ORF, Hygro(R), Amp(R), SV40 early promoter, Not I, BGH reverse primer, and pUC origin.]