PRODUCT: Living Colors® pAcGFP1-Mem Vector

CATALOG No. 632491

LOT NUMBER
Specified on product label.

STORAGE CONDITIONS
• Store all components at –20°C.
• Spin briefly to recover contents.
• Avoid repeated freeze/thaw cycles.

PLASMID STORAGE BUFFER
10 mM Tris-HCl (pH 8.0)
1 mM EDTA (pH 8.0)

SHELF LIFE
1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONS
Blue ice (4°C) or dry ice (–70°C)

DESCRIPTION
pAcGFP1-Mem encodes a fusion protein consisting of the Aequorea coerulescens green fluorescent protein and the N-terminal membrane-targeting signal of neuromodulin (also called GAP-43). AcGFP1 is a variant of the Aequorea coerulescens green fluorescent protein (AcGFP) that has been optimized for brighter fluorescence and higher expression in mammalian cells. pAcGFP1-Mem can be used for labeling the plasma membrane.

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 4.8 kb

ANTIBIOTIC RESISTANCE
• Kanamycin (50 µg/ml for propagation in E. coli cells)
• G418 (500 µg/ml for selection in mammalian cells)

PACKAGE CONTENTS
• 20 µg pAcGFP1-Mem Vector

OTHER
• Vector Information Packet (PT3841-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA
See back of page.

APPROVED BY: _________________________

(PA56801)
QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on an agarose/EtBr gel:

<table>
<thead>
<tr>
<th>Enzyme(s)</th>
<th>Fragment(s)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BamH I</td>
<td>4.8 kb</td>
</tr>
<tr>
<td>Age I/Not I</td>
<td>0.8 &amp; 4.0 kb</td>
</tr>
</tbody>
</table>

- The presence of the correct fluorescent protein variant was confirmed by sequencing.

- Plasmid purity was analyzed by OD $A_{260}/A_{280}$ measurement and found to be $\geq 1.8$

* Note: Fragment sizes are estimates; the apparent sum of all fragment sizes for a given digest may not equal the actual size of the plasmid due to number rounding.

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