PRODUCT: Living Colors® pAcGFP1-N2 Vector

CATALOG No. 632483

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-N2 encodes a green fluorescent protein from Aequorea coerulescens. pAcGFP1-N2 is designed for studies in mammalian systems. This vector allows expression of a protein of interest as an N-terminal fusion to AcGFP1. The fusion vector can also be used as a cotransfection marker since the unmodified vector will express fluorescent protein. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells.

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 4.7 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-N2 Vector

OTHER
• Vector Information Packet (PT3833-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA
See back of page.
QUALITY CONTROL DATA

• Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

<table>
<thead>
<tr>
<th>Enzyme(s)</th>
<th>Fragment(s)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Msc I</td>
<td>2.1 &amp; 2.6 kb</td>
</tr>
<tr>
<td>BamH I</td>
<td>4.7 kb</td>
</tr>
</tbody>
</table>

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

• \(\frac{A_{260}}{A_{280}}\): 1.8–2.0

* 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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