PRODUCT: Living Colors® pAcGFP1-1 Vector

CATALOG No. 632497

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
pAcGFP1-1 encodes a green fluorescent protein (AcGFP1) from Aequorea coerulescens. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells. The vector contains a neomycin resistance gene for the selection of stable transfectants. pAcGFP1-1 can be used as a reporter to monitor the activity of promoters and promoter/enhancer combinations cloned into the multiple cloning site (MCS) upstream of the promoterless AcGFP1 gene. Without the addition of a functional promoter, this vector will not express AcGFP1.

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 4.2 kb

CLONING SITES: AccI, AgeI, ApaI, Asp718I, BamHI, BglII, EcoRI, HindIII, PstI, SacI, SacII, SalI, SmaI, XhoI, XmaI

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 pAcGFP1-1 Vector

OTHER
• Vector Information Packet (PT3846-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA
See back of page.

APPROVED BY: _________________________
(PA57818)
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>Age I</td>
<td>4.2 kb</td>
</tr>
<tr>
<td>Pvu II</td>
<td>0.6, 1.1 &amp; 2.5 kb</td>
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</tbody>
</table>

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

- Plasmid purity was analyzed by OD \( \frac{A_{260}}{A_{280}} \) measurement and found to be 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.