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PRODUCT: Living Colors® pAcGFP1-C2 Vector**CATALOG No.** 632481**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 CONDITIONSBlue ice (4°C) or dry ice (-70°C)**DESCRIPTION**

pAcGFP1-C2 encodes a green fluorescent protein from *Aequorea coerulea*. pAcGFP1-C2 is designed for studies in mammalian systems. This vector allows expression of a protein of interest as a C-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**CLONING SITES:** *Acc* I, *Apa* I, *Asp*718 I, *Bam*H I, *Bgl* II, *Eco*R I, *Hind* III, *Kpn* I, *Pst* I, *Sac* I, *Sac* II, *Sal* I, *Sma* I, *Xma* I**ANTIBIOTIC RESISTANCE**

- Kanamycin (50 $\mu\text{g}/\text{ml}$ for propagation in *E. coli* cells)
- G418 (500 $\mu\text{g}/\text{ml}$ for selection in mammalian cells)

PACKAGE CONTENTS

- 20 μg pAcGFP1-C2 Vector

OTHER

- Vector Information Packet (PT3831-5)

FOR RESEARCH USE ONLY**QUALITY CONTROL DATA**

See back of page.

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APPROVED BY: _____

(PA53618)

QUALITY CONTROL DATA

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

Enzyme(s)	Fragment(s)*
<i>Msc</i> I	2.2 & 2.6 kb
<i>Age</i> I	4.7 kb

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

- 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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