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PRODUCT: Living Colors® pAcGFP1-N1 Vector

CATALOG No. 632469

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-N1 encodes a green fluorescent protein from *Aequorea coerulescens*. pAcGFP1-N1 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

CLONING SITES: *Age I, Acc I, Apa I, Asp718 I, BamH I, Bgl II, Eco47 III, EcoR I, Hind III, Kpn I, Nhe I, Pst I, Sac I, Sac II, Sal I, Sma I, Xho I, Xma I*

ANTIBIOTIC RESISTANCE

- Kanamycin (30 $\mu\text{g}/\text{ml}$ for propagation in *E. coli* cells)
- G418 (500 $\mu\text{g}/\text{ml}$ for selection in mammalian cells)

PACKAGE CONTENTS

- 20 μg pAcGFP1-N1 Vector

OTHER

- Vector Information Packet (PT3716-5)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

See back of page.

We recommend the following antibodies for use with AcGFP1:

- A.v. Monoclonal Antibody (JL-8), Cat. Nos. 632380 & 632381
- GFP Monoclonal Antibody, Cat. No. 632375
- Full-Length GFP Polyclonal Antibody, Cat. Nos. 632592 & 632593
- A.v. Peptide Antibody, Cat. Nos. 632376 & 632377

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APPROVED BY: _____

(PA48591)

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>Pvu</i> II	0.6, 1.0 & 3.1 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

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