

Living Colors® pAcGFP1-N1 Vector

Catalog No.
632469

Amount
20 µg

Lot Number
Specified on product label.

Description

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

We recommend the following antibodies for use with AcGFP1:

- Living Colors A.v. Monoclonal Antibody (JL-8), Cat. No. 632381
- Living Colors Full-Length GFP Polyclonal Antibody, Cat. No. 632592

- **Plasmid Size:** 4.7 kb
- **Antibiotic Resistance:** Kanamycin (30 µg/ml for propagation in *E. coli*), G418 (500 µg/ml for selection in mammalian cells)

Package Contents

- 20 µg pAcGFP1-N1 Vector (500 ng/µl)

Storage Conditions

- Store at –20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

Expiration Date

- Specified on product label.

Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

Concentration

- 500 ng/µl

Shipping Conditions

- Dry ice

Takara Bio USA, Inc.

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Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- pAcGFP1-N1 Vector Information
- pAcGFP1-N1 Vector Sequence in GenBank Format

Quality Control Data

Plasmid Identity & Purity

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

Vector	Enzymes	Fragments
pAcGFP1-N1	PvuII	0.6, 1.0 & 3.1 kb
	AgeI	4.7 kb

- The presence of the correct fluorescent protein variant was confirmed by sequencing.
- A_{260}/A_{280} : 1.8–2.0

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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STATEMENT 39

AcGFP is covered by U.S. Patent Numbers; 7,432,053, 7,667,016, 7,879,988 and 7,897,726.

STATEMENT 72

Living Colors Fluorescent Protein Products:

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4/18/2024

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