

## PRODUCT: pAcGFP1-N Vector Set

**CATALOG No.** 632485

**LOT NUMBER**

Specified on product label.

**STORAGE BUFFER**

10 mM Tris-HCl (pH 8.0)

1 mM EDTA (pH 8.0)

**STORAGE CONDITIONS**

- Store plasmids at  $-20^{\circ}\text{C}$ .
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

**SHELF LIFE**

1 year from date of receipt under proper storage conditions

**SHIPPING CONDITIONS**

Blue ice ( $4^{\circ}\text{C}$ ) or Dry ice ( $-70^{\circ}\text{C}$ )

**FOR RESEARCH USE ONLY**

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**QUALITY CONTROL DATA**

See back of page.

**DESCRIPTION**

A set of three vectors encoding a green fluorescent protein from *Aequorea coerulea*. The pAcGFP1-N vectors are designed for studies in mammalian systems. These vectors allow expression of a protein of interest as a N-terminal fusion. Each vector contains the MCS in a different reading frame with respect to AcGFP1. These fusion vectors can also be used as cotransfection markers since the unmodified vectors will express fluorescent protein. All of the fluorescent protein coding sequences in these constructs have been human codon-optimized for efficient expression in mammalian cells.

**CONCENTRATION:** 500 ng/ $\mu\text{l}$  each

**PACKAGE CONTENTS**

- 20  $\mu\text{g}$  pAcGFP1-N1 Vector
- 20  $\mu\text{g}$  pAcGFP1-N2 Vector
- 20  $\mu\text{g}$  pAcGFP1-N3 Vector

**OTHER**

- 3 Vector Information Packets (PT3716-5, PT3833-5 & PT3834-5)

APPROVED BY: \_\_\_\_\_



(PA53623)

**CLONING SITES**• **pAcGFP1-N1 Vector**

*Age* I, *Acc* I, *Apa* I, *Asp718* I, *Bam*H I, *Bgl* II, *Eco47* III, *Eco*R I, *Hind* III, *Kpn* I, *Nhe* I, *Pst* I, *Sac* I, *Sac* II, *Sal* I, *Sma* I, *Xho* I, *Xma* I

• **pAcGFP1-N2 Vector**

*Acc* I, *Apa* I, *Asp718* I, *Bam*H I, *Bgl* II, *Eco47* III, *Eco*R I, *Hind* III, *Kpn* I, *Nhe* I, *Pst* I, *Sac* I, *Sac* II, *Sal* I, *Sma* I, *Xma* I

• **pAcGFP1-N3 Vector**

*Acc* I, *Apa* I, *Asp718* I, *Bam*H I, *Bgl* II, *Eco47* III, *Eco*R I, *Hind* III, *Kpn* I, *Nhe* I, *Pst* I, *Sac* I, *Sac* II, *Sal* I, *Sma* I, *Xma* I

**VECTOR CHARACTERISTICS AND QUALITY CONTROL DATA**

- The identity of each plasmid was verified by digestion with the indicated restriction enzymes (Table I). Fragments were observed on a 0.8% agarose/EtBr gel.
- The presence of the correct fluorescent protein variant was confirmed by sequencing.
- The purity of each plasmid was determined by the  $A_{260}/A_{280}$ . In all cases, the  $A_{260}/A_{280}$  was in the range 1.8–2.0.

**TABLE I. AEQUOREA COERULESCENS FLUORESCENT PROTEIN EXPRESSION VECTORS**

Vector	Plasmid Size	Selectable Marker		Quality Control Data	
		<i>E. coli</i>	Mammalian	Enzyme(s)	Fragment(s)*
pAcGFP1-N1	4.7 kb	Kan	Neo	<i>Pvu</i> II <i>Age</i> I	0.6, 1.0 & 3.1 kb 4.7 kb
pAcGFP1-N2	4.7 kb	Kan	Neo	<i>Msc</i> I <i>Bam</i> H I	2.1 & 2.6 kb 4.7 kb
pAcGFP1-N3	4.7 kb	Kan	Neo	<i>Msc</i> I <i>Bam</i> H I	2.1 & 2.6 kb 4.7 kb

Kan = confers resistance to kanamycin (50 µg/ml)

Neo = confers resistance to neomycin; Stable transfectants can be selected with G418 (0.5–1.3 mg/ml, depending on the cell line).

\* **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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