

PRODUCT: Living Colors® pAcGFP1 Vector

CATALOG No. 632468

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)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

See back of page.

DESCRIPTION

pAcGFP1 encodes a monomeric green fluorescent protein from *Aequorea coerulescens*. pAcGFP1 is a prokaryotic expression vector that also serves as a convenient source of fluorescent protein cDNA. In this vector, the full-length human-codon-optimized cDNA is flanked by distinct MCSs to facilitate excision from the vector and insertion into other eukaryotic or prokaryotic expression constructs. 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: 3.4 kb

CLONING SITES: *Age* I, *Acc* I, *Apa* I, *Asp*718 I, *Bam*H I, *Bsi*W I, *Eco*R I, *Hinc* II, *Hind* III, *Kpn* I, *Not* I, *Pst* I, *Sal* I, *Sma* I, *Spe* I, *Sph* I, *Stu* I, *Xma* I

ANTIBIOTIC RESISTANCE: Ampicillin (50 $\mu\text{g}/\text{ml}$, for propagation in *E. coli* cells)

PACKAGE CONTENTS

- 20 μg pAcGFP1 Vector

OTHER

- Vector Information Packet (PT3715-5)

APPROVED BY: _____



(PA48590)

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	0.8 & 2.6 kb
<i>Age</i> I	3.4 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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