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## PRODUCT: Living Colors® pAcGFP1-C3 Vector

**CATALOG No.** 632482

**LOT NUMBER**

Specified on product label.

**STORAGE CONDITIONS**

- Store all components at  $-20^{\circ}\text{C}$ .
- 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 ( $4^{\circ}\text{C}$ ) or dry ice ( $-70^{\circ}\text{C}$ )

**DESCRIPTION**

pAcGFP1-C3 encodes a green fluorescent protein from *Aequorea coerulescens*. pAcGFP1-C3 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/ $\mu\text{l}$

**PLASMID SIZE:** 4.7 kb

**CLONING SITES:** *Acc I, Apa I, Asp718 I, BamH I, Bgl II, EcoR 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  $\mu\text{g}$  pAcGFP1-C3 Vector

**OTHER**

- Vector Information Packet (PT3832-5)

**FOR RESEARCH USE ONLY**

**QUALITY CONTROL DATA**

See back of page.



**Clontech**

**United States/Canada**  
800.662.2566

**Asia Pacific**  
+1.650.919.7300

**Europe**  
+33.(0)1.3904.6880

**Japan**  
+81.(0)77.543.6116

Clontech Laboratories, Inc.  
A Takara Bio Company  
1290 Terra Bella Ave.  
Mountain View, CA 94043  
Technical Support (US)  
E-mail: [tech@clontech.com](mailto:tech@clontech.com)  
[www.clontech.com](http://www.clontech.com)

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

(PA53619)

**QUALITY CONTROL DATA**

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

<b>Enzyme(s)</b>	<b>Fragment(s)*</b>
<i>Msc</i> I	2.1 & 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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