

In the interest of conserving resources, we are no longer shipping manuals with products. Please visit [www.clontech.com/manuals](http://www.clontech.com/manuals) to obtain an electronic version.

## PRODUCT: Living Colors® pAcGFP1-1 Vector

**CATALOG No.** 632497

**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**

pAcGFP1-1 encodes a green fluorescent protein (AcGFP1) from *Aequorea coerulescens*. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells. The vector contains a neomycin resistance gene for the selection of stable transfectants. pAcGFP1-1 can be used as a reporter to monitor the activity of promoters and promoter/enhancer combinations cloned into the multiple cloning site (MCS) upstream of the promoterless AcGFP1 gene. Without the addition of a functional promoter, this vector will not express AcGFP1.

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

**PLASMID SIZE:** 4.2 kb

**CLONING SITES:** *Acc I*, *Age I*, *Apa I*, *Asp718 I*, *BamH I*, *Bgl II*, *EcoR I*, *Hind III*, *Pst I*, *Sac I*, *Sac II*, *Sal I*, *Sma I*, *Xho 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  $\mu\text{g}$  pAcGFP1-1 Vector

**OTHER**

- Vector Information Packet (PT3846-5)

**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: \_\_\_\_\_

(PA57818)

**QUALITY CONTROL DATA**

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

<b>Enzyme(s)</b>	<b>Fragment(s)*</b>
<i>Age</i> I	4.2 kb
<i>Pvu</i> II	0.6, 1.1 & 2.5 kb

- The presence of the correct fluorescent protein variant was confirmed by sequencing.
- Plasmid purity was analyzed by OD  $A_{260}/A_{280}$  measurement and found to be 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.

**Notice to Purchaser**

Clontech products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Clontech 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 written approval of Clontech Laboratories, Inc

Not-For-Profit Entities: Orders may be placed in the normal manner by contacting your local representative or Clontech Customer Service at 650.919.7300. At its discretion, Clontech grants Not-For-Profit Entities a non-exclusive, personal, limited license to use this product for non-commercial life science research use only. Such license specifically excludes the right to sell or otherwise transfer this product, its components or derivatives thereof to third parties. No modifications to the protein coding sequence may be made without express written permission from Clontech. Any other use of this product requires a license from Clontech. For license information, please contact a licensing representative by phone at 650.919.7320 or by e-mail at [licensing@clontech.com](mailto:licensing@clontech.com).

For-Profit Entities wishing to use this product are required to obtain a license from Clontech. For license information, please contact a licensing representative by phone at 650.919.7320 or by e-mail at [licensing@clontech.com](mailto:licensing@clontech.com).

This product is the subject of U.S. patents.

Clontech, the Clontech logo and all other trademarks are the property of Clontech Laboratories, Inc. Clontech is a Takara Bio Company. ©2006