

pAcGFP1-C In-Fusion® Ready Vector

Catalog No.
632500

Amount
1 µg

Lot Number
Specified on product label.

Description

pAcGFP1-C In-Fusion Ready Vector encodes a green fluorescent protein from *Aequorea coerulea*. The vector is prelinearized to enable directional In-Fusion cloning of PCR fragments onto the 3' end of the AcGFP1-encoding gene without further restriction digests. Sequences complementary to the vector sequences (flanking the site of linearization) need to be incorporated at the 5' ends of the PCR primers (see PT3865-2). The gene of interest is expressed as a C-terminal fusion to AcGFP1 in mammalian cells. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells.

Package Contents

- 1 µg pAcGFP1-C In-Fusion Ready Vector

Storage Conditions

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

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Storage Buffer

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

Concentration

- 100 ng/µl

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for Clontech® products are available for download at www.clontech.com/manuals

The following documents apply to this product:

- pAcGFP1-C In-Fusion Ready Vector Information Packet (PT3861-5)
- In-Fusion Ready Vector Cloning Protocol-at-a-Glance (PT3865-2)

Clontech Laboratories, Inc.

A Takara Bio Company
1290 Terra Bella Avenue, Mountain View, CA 94043, USA
U.S. Technical Support: tech@clontech.com

United States/Canada	Asia Pacific	Europe	Japan
800.662.2566 (070313)	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.543.6116

Certificate of Analysis

Cat. No. 632500

pAcGFP1-C In-Fusion Ready Vector

Propagation in *E. coli*

- Suitable host strains: Stellar™ Competent Cells
- Selectable marker: plasmid confers resistance to kanamycin (50 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: ~ 500
- Plasmid incompatibility group: pMB1/ColE1

Excitation and Emission of AcGFP1

- Excitation: 475 nm
- Emission: 505 nm

Quality Control Data

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

Functional Testing of Linear Markers

- When 5 ng of linearized vector was transformed into Stellar Cells, fewer than 400 colonies were observed.

pAcGFP1-C In-Fusion® Ready Vector

CATALOG NO.

632500

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 prior written approval of Clontech Laboratories, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product's web page at <http://www.clontech.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

STATEMENT 39

AcGFP is covered by U.S. Patent No. 7,432,053.

STATEMENT 72

Living Colors® Fluorescent Protein Products: Not-For-Profit Entities: Orders may be placed in the normal manner by contacting your local representative or Clontech Customer Service at. Any and all uses of this product will be subject to the terms and conditions of the Non-Commercial Use License Agreement (the "Non-Commercial License"), a copy of which can be found below. As a condition of sale of this product to you, and prior to using this product, you must agree to the terms and conditions of the Non-Commercial License. Under the Non-Commercial License, Clontech grants Not-For-Profit Entities a non-exclusive, non-transferable, non-sublicensable and limited license to use this product for internal, non-commercial scientific 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 product may be made without express written permission from Clontech. Any other use of this product requires a different 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. 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.

TRADEMARKS:

Clontech Laboratories, Inc.

A Takara Bio Company

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: tech@clontech.com

7/3/2013

United States/Canada

Asia Pacific

Europe

Japan

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

+81.(0)77.543.6116

Notice to Purchaser



Clontech, the Clontech logo, In-Fusion, Living Colors, and Stellar are trademarks of Clontech Laboratories, Inc.

All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions. Clontech is a Takara Bio Company. ©2013 Clontech Laboratories, Inc. This document has been reviewed and approved by the Clontech Quality Assurance Department.

Clontech Laboratories, Inc.

A Takara Bio Company

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: tech@clontech.com

7/3/2013

United States/Canada

Asia Pacific

Europe

Japan

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

+81.(0)77.543.6116