

## pAcGFP1-N In-Fusion® Ready Vector

**Catalog No.**

632501

**Amount**

1 µg

**Lot Number**

Specified on product label.

### Description

pAcGFP1-N 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 5' 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 an N-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-N 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](http://www.clontech.com/manuals)

The following documents apply to this product:

- pAcGFP1-N In-Fusion Ready Vector Information Packet (PT3862-5)
- In-Fusion Ready Vector Cloning Protocol-at-a-Glance (PT3865-2)

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**Clontech Laboratories, Inc.**

A Takara Bio Company

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## 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.

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### STATEMENT 39

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

### STATEMENT 72

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