

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 coerulescens*. 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 protocol). 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 at -20°C.
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

Expiration Date

- Specified on product label.

Storage Buffer

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

Concentration

- 100 ng/µl

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- In-Fusion Ready Vector Cloning Protocol-At-A-Glance
- pAcGFP1-N In-Fusion Ready Vector Information Packet

Takara Bio USA, Inc.

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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 Competent Cells, fewer than 400 colonies were observed.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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STATEMENT 39

AcGFP is covered by U.S. Patent Numbers; 7,432,053, 7,667,016, 7,879,988 and 7,897,726.

STATEMENT 72

Living Colors Fluorescent Protein Products:

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