

pAcGFP1-Hyg-N1 Vector

Catalog No.

632489

Amount

20 µg

Lot Number

Specified on product label.

Description

pAcGFP1-Hyg-N1 encodes a green fluorescent protein from *Aequorea coerulescens*. pAcGFP1-Hyg-N1 is designed for studies in mammalian systems. This vector allows expression of a protein of interest as an N-terminal fusion to AcGFP1. The vector contains a hygromycin resistance gene for the selection of stable transfectants. The fusion vector can also be used as a cotransfection marker since the unmodified vector constitutively expresses fluorescent protein. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells.

- **Plasmid Size:** 5.8 kb
- **Antibiotic Resistance:** Ampicillin (100 µg/ml for propagation in *E. coli* cells); Hygromycin (500 µg/ml for selection in mammalian cells)

Package Contents

- 20 µg pAcGFP1-Hyg-N1 Vector (500 ng/µl)

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

- 500 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:

- pAcGFP1-Hyg-N1 Vector Information
- pAcGFP1-Hyg-N1 Vector Sequence in GenBank Format

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 632489

pAcGFP1-Hyg-N1 Vector

Quality Control Data

Plasmid Identity & Purity

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

Vector	Enzymes	Fragments
pAcGFP1-Hyg-N1	MscI	5.8 kb
	EcoRI	2.2 & 3.6 kb

- A_{260}/A_{280} : 1.8–2.0
- Vector identity was confirmed by sequencing.

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

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