

pAcGFP1 Vector

Catalog No.
632468

Amount
20 µg

Lot Number
Specified on product label.

Description

pAcGFP1 encodes a monomeric green fluorescent protein from *Aequorea coerulea*. pAcGFP1 is a prokaryotic expression vector that also serves as a convenient source of fluorescent protein cDNA. In this vector, the full-length human-codon-optimized cDNA is flanked by distinct multiple cloning sites (MCSs) to facilitate excision from the vector and insertion into other eukaryotic or prokaryotic expression constructs. The fluorescent protein coding sequence in this construct has been human codon-optimized for efficient expression and enhanced brightness in mammalian cells.

- **Plasmid size:** 3.4 kb
- **Cloning sites:** Age I, Acc I, Apa I, Asp718 I, BamH I, BsiW I, EcoR I, Hinc II, Hind III, Kpn I, Not I, Pst I, Sal I, Sma I, Spe I, Sph I, Stu I, Xma I
- **Antibiotic Resistance:** Ampicillin (50 µg/ml) for propagation in *E. coli*

Package Contents

- 20 µg pAcGFP1 Vector (500 ng/µl)

Storage Conditions

- Store all components 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 Vector Information
- pAcGFP1 Vector Sequence in GenBank Format

Takara Bio USA, Inc.

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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	Pvu II	0.8 & 2.6 kb
	AgeI	3.4 kb

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

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 No. 7,432,053.

STATEMENT 72

Living Colors Fluorescent Protein Products:

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4/26/2023

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