

## pGFP Vector

Catalog No.	Amount	Lot Number
632370	20 µg	Specified on product label.

### Description

Green fluorescent protein (GFP) is a naturally fluorescent protein from *Aequorea victoria* that can be used as an in vivo reporter of gene expression and protein localization. pGFP is a convenient source of the GFP cDNA. The GFP coding sequence is flanked by separate MCSs at the 5' and 3' ends, so the GFP gene can easily be excised. Alternatively, the GFP coding sequences can be amplified by PCR.

- **Plasmid Size:** 3.3 kb
- **Cloning Sites:** Hind III, Sph I, Pst I, Sal I, Xba I, BamH I, Xma I, Sma I, Asp718 I, Kpn I, Age I, Bsm I, EcoR I, Stu I, Spe I, Eag I, BsiW I, Bsp120 I, Apa I
- **Antibiotic Resistance:** Ampicillin (100 µg/ml for propagation in *E. coli*)

### Package Contents

- 1 tube pGFP Vector

### Storage Conditions

- Store plasmid 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](http://takarabio.com/manuals)

The following documents apply to this product:

- pGFP Vector Information
- pGFP vector sequence in GenBank format

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#### Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

United States/Canada  
800.662.2566  
(041023)

Asia Pacific  
+1.650.919.7300

Europe  
+33.(0)1.3904.6880

Japan  
+81.(0)77.565.6999

## 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:

<b>Vector</b>	<b>Enzyme</b>	<b>Fragments*</b>
pGFP	Dra I	0.7, 1.1 & 1.6 kb

\*An additional fragment of 19 bp is too small to detect by this assay.

- The presence of the correct GFP variant was verified 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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### CATALOG NO.

632370

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