

## pAcGFP1-Actin Vector

**Catalog No.**  
632453

**Amount**  
20 µg

**Lot Number**  
Specified on product label.

### Description

pAcGFP1-Actin Vector encodes a fusion protein consisting of *Aequorea coerulea* green fluorescent protein (AcGFP1) fused at its C-terminus to the human cytoplasmic  $\beta$ -actin. The AcGFP1-Actin fusion protein incorporates into growing actin filaments, allowing visualization of the actin cytoskeleton in living or fixed cells.

- **Plasmid Size:** 5.8 kb
- **Antibiotic Resistance:** Kanamycin (50 µg/ml for propagation in *E. coli* DH5 $\alpha$ )

### Package Contents

- 20 µg pAcGFP1-Action Vector (500 ng/µl)

### 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:

- pAcGFP1-Action Vector Information
- pAcGFP1-Action Vector Sequence in Genbank Format

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#### Takara Bio USA, Inc.

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

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+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>Enzyme(s)</b>	<b>Fragment (kb)</b>
AgeI	5.8
MscI	2.6, 1.9 & 1.3

- Vector identity 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.

## pAcGFP1-Actin Vector

### CATALOG NO.

632453

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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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12/2/2024

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