

## pIRES2-AcGFP1 Vector

**Catalog No.**  
642435

**Amount**  
20 µg

**Lot Number**  
Specified on product label.

### Description

pIRES2-AcGFP1 is a bicistronic vector designed for the simultaneous expression of a novel green fluorescent protein (AcGFP1) and a protein of interest from the same transcript in transfected mammalian cells. This vector contains an internal ribosome entry site (IRES2) of the encephalomyocarditis virus (ECMV). When a gene of interest is inserted into the MCS located upstream of the IRES, both the gene of interest and the AcGFP1 coding region will be translated from a single bicistronic mRNA.

### Package Contents

- 20µg pIRES2-AcGFP1 Vector (500 ng/µl)

### Storage Conditions

- Store at -20°C
- Spin briefly to recover contents
- Avoid repeated freeze/thaw cycles

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Storage Buffer

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

### Shipping Conditions

- Dry ice (-70°C)

### 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:

- pIRES2-AcGFP1 Vector Information (PT3743-5)

### Plasmid Size

- 5.3 kb

### Cloning Sites

- Acc I, BamH I, Bgl II, EcoR I, Eco47 III, Nhe I, Pst I, SacI, Sac II, Sal I, Sma I, Xho I, Xma I

### Antibiotic Resistance

- Kanamycin (50 µg/ml) for propagation in *E. coli* DH5  $\alpha$

---

#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

United States/Canada  
800.662.2566  
(080817)

Asia Pacific  
+1.650.919.7300

Europe  
+33.(0)1.3904.6880

Japan  
+81.(0)77.565.6999

## Quality Control Data

### Plasmid Identity and 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(s)</b>	<b>Size (kb)</b>
pIRES2-AcGFP1	Not I	5.3 kb
	BsrG I	5.0 kb, 0.3 kb

- 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.

## pIRES2-AcGFP1 Vector

### CATALOG NO.

632435

### NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Takara Bio USA, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

### STATEMENT 39

AcGFP is covered by U.S. Patent No. 7,432,053.

### STATEMENT 72

Living Colors Fluorescent Protein Products: Not-For-Profit Entities: Orders may be placed in the normal manner by contacting your local representative or Takara Bio USA, Inc. Customer Service. Any and all uses of this product will be subject to the terms and conditions of the Non-Commercial Use License Agreement (the "Non-Commercial License"), a copy of which can be found below. As a condition of sale of this product to you, and prior to using this product, you must agree to the terms and conditions of the Non-Commercial License. Under the Non-Commercial License, Takara Bio USA, Inc. grants Not-For-Profit Entities a non-exclusive, non-transferable, non-sublicensable and limited license to use this product for internal, non-commercial scientific research use only. Such license specifically excludes the right to sell or otherwise transfer this product, its components or derivatives thereof to third parties. No modifications to the product may be made without express written permission from Takara Bio USA, Inc. Any other use of this product requires a different license from Takara Bio USA, Inc. For license information, please contact a licensing representative by phone at 650.919.7320 or by e-mail at [licensing@takarabio.com](mailto:licensing@takarabio.com). For-Profit Entities wishing to use this product are required to obtain a license from Takara Bio USA, Inc. For license information, please contact a licensing representative by phone at 650.919.7320 or by e-mail at [licensing@takarabio.com](mailto:licensing@takarabio.com).

### TRADEMARKS:

#### ©2017 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.

---

#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

#### United States/Canada

800.662.2566

#### Asia Pacific

+1.650.919.7300

#### Europe

+33.(0)1.3904.6880

#### Japan

+81.(0)77.565.6999

8/8/2017