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PRODUCT: pIRES2-AcGFP1-Nuc Vector**CATALOG No.** 632515**LOT NUMBER**

Specified on product label.

STORAGE CONDITIONSStore all components at -20°C .**PLASMID STORAGE BUFFER**

10 mM Tris-HCl (pH 8.0)

1 mM EDTA (pH 8.0)

SHELF LIFE

1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONSBlue ice (4°C) or dry ice (-70°C)**DESCRIPTION**

pIRES2-AcGFP1-Nuc encodes AcGFP1 with three identical copies of the nuclear localization signal (NLS) of the simian virus 40 large T antigen fused in tandem to its C-terminus. The gene encoding the AcGFP1-Nuc fusion protein is located downstream of the IRES2 sequence. This permits both the gene of interest (cloned into the MCS upstream of the IRES2 sequence) and the AcGFP1-Nuc gene to be translated from a single bicistronic mRNA. AcGFP1-Nuc localizes to the nucleus of a transfected cell, offering an advantage over random localization in the cytosol. It is most useful for those who are interested in monitoring translocation events in and out of the nucleus.

CONCENTRATION: 500 ng/ μl **PLASMID SIZE:** 5.4 kb**ANTIBIOTIC RESISTANCE**

- Kanamycin (50 $\mu\text{g}/\text{ml}$ for propagation in *E. coli* cells)
- G418 (200–500 $\mu\text{g}/\text{ml}$ for selection in mammalian cells)

PACKAGE CONTENTS

- 20 μg pIRES2-AcGFP1-Nuc Vector
- Vector Information Packet (PT3907-5)

FOR RESEARCH USE ONLY**QUALITY CONTROL DATA**

See back of page.

**Clontech****United States/Canada**
800.662.2566**Asia Pacific**
+1.650.919.7300**Europe**
+33.(0)1.3904.6880**Japan**
+81.(0)77.543.6116Clontech Laboratories, Inc.
A Takara Bio Company
1290 Terra Bella Ave.
Mountain View, CA 94043
Technical Support (US)
E-mail: tech@clontech.com
www.clontech.com

(PA053842)

QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on an agarose/EtBr gel.

Enzyme	Fragments
<i>Eco</i> RI	5.4 kb
<i>Eco</i> RI/ <i>Not</i> I	4 kb & 1.4 kb

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

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

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This document has been reviewed and approved by the Clontech Quality Assurance Department.