

## PRODUCT: Living Colors® pAcGFP1-Mem Vector

**CATALOG No.** 632491

**LOT NUMBER**

Specified on product label.

**STORAGE CONDITIONS**

- Store all components at  $-20^{\circ}\text{C}$ .
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

**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 CONDITIONS**

Blue ice ( $4^{\circ}\text{C}$ ) or dry ice ( $-70^{\circ}\text{C}$ )

**FOR RESEARCH USE ONLY**

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**QUALITY CONTROL DATA**

See back of page.

**DESCRIPTION**

pAcGFP1-Mem encodes a fusion protein consisting of the *Aequorea coerulea* green fluorescent protein and the N-terminal membrane-targeting signal of neuromodulin (also called GAP-43). AcGFP1 is a variant of the *Aequorea coerulea* green fluorescent protein (AcGFP) that has been optimized for brighter fluorescence and higher expression in mammalian cells. pAcGFP1-Mem can be used for labeling the plasma membrane.

**CONCENTRATION:** 500 ng/ $\mu\text{l}$

**PLASMID SIZE:** 4.8 kb

**ANTIBIOTIC RESISTANCE**

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

**PACKAGE CONTENTS**

- 20  $\mu\text{g}$  pAcGFP1-Mem Vector

**OTHER**

- Vector Information Packet (PT3841-5)

APPROVED BY: \_\_\_\_\_



(PA56801)

**QUALITY CONTROL DATA**

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

<b>Enzyme(s)</b>	<b>Fragment(s)*</b>
<i>Bam</i> H I	4.8 kb
<i>Age</i> I/ <i>Not</i> I	0.8 & 4.0 kb

- The presence of the correct fluorescent protein variant was confirmed by sequencing.
- Plasmid purity was analyzed by OD  $A_{260}/A_{280}$  measurement and found to be  $\geq 1.8$

\* **Note:** Fragment sizes are estimates; the apparent sum of all fragment sizes for a given digest may not equal the actual size of the plasmid due to number rounding.

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