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## PRODUCT: pBI-CMV2 Vector

**CATALOG No.** 631631  
**AMOUNT** 20 µg

**LOT NUMBER**  
Specified on product label.

**STORAGE CONDITIONS**

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

**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°C) or Dry ice (-70°C)

**DESCRIPTION**  
pBI-CMV2 is a mammalian bidirectional expression vector designed to constitutively express a protein of interest and AcGFP1, a green fluorescent protein derived from *Aequorea coerulescens*. The vector allows straightforward detection of transfected mammalian cells by flow cytometry or fluorescence microscopy, as cells expressing the protein of interest can be quickly identified by screening for AcGFP1 fluorescence. Protein expression is driven by one of two constitutively active human cytomegalovirus promoters:  $P_{CMV\ IE}$  drives the expression of the protein of interest, and  $P_{minCMV}$  drives the expression of AcGFP1.

**CONCENTRATION:** 500 ng/µl

**PLASMID SIZE:** 3.8 kb

**CLONING SITES:**  
BamHI, ClaI, EagI, EcoRV, HindIII, MluI, NheI, NotI, Sall

**ANTIBIOTIC RESISTANCE**  
Ampicillin (100 µg/ml) for propagation in *E. coli* DH5α.

**PACKAGE CONTENTS**

- 20 µg pBI-CMV2 Vector

**OTHER**

- Vector Information Packet (PT4441-5)

### FOR RESEARCH USE ONLY

### QUALITY CONTROL DATA

- Digestion with the indicated restriction enzyme(s) produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

<u>Enzyme(s)</u>	<u>Fragment(s)</u>
BamHI	3.8 kb
BamHI & EcoRI	3.1 and 0.7 kb

- $A_{260}/A_{280}$  : 1.8 – 2.0
- Vector identity was confirmed by sequencing.



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

**Living Colors Fluorescent Protein Products:**

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