

pAmCyan Vector

Catalog No.
632440

Amount
20 µg

Lot Number
Specified on product label.

Description

pAmCyan is a prokaryotic expression vector, which encodes *Anemonia majano* cyan fluorescent protein (AmCyan). The *AmCyan* coding sequence carried in pAmCyan retains the wild-type codon usage. In this vector, the *AmCyan* gene is flanked by separate and distinct MCS regions at the 5' and 3' ends so that the *AmCyan* gene can be subcloned into other expression vectors. This vector is primarily intended to serve as a convenient source of *AmCyan* cDNA.

Package Contents

- 1 tube of pAmCyan Vector

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)

Concentration

- 500 ng/µl

Plasmid size

- 3.3 kb

Cloning sites

- BamHI, BsiWI, EcoRI, HindIII, KpnI, NotI, PstI, Sall, SmaI, SpeI, SphI, StuI, XmaI

Antibiotic Resistance

- Ampicillin (50 µg/ml) for propagation in *E. coli*

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

Takara Bio USA, Inc.

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U.S. Technical Support: techUS@takarabio.com

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+81.(0)77.565.6999

- DD-Fluorescent Protein Reporter Systems Protocol-At-A-Glance (PT4088-2)
- ProteoTuner Systems User Manual (PT4039-1)

References

Banaszynski, L. A., Chen, L. chun, Maynard-Smith, L. A., Ooi, A. G. L. & Wandless, T. J. A Rapid, Reversible, and Tunable Method to Regulate Protein Function in Living Cells Using Synthetic Small Molecules. *Cell* **126**, 995–1004 (2006).

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:

Enzymes	Fragments (kb)
NotI	3.3
KpnI & NotI	2.6 & 0.7

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

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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