

## pAmCyan1-N1 Vector

|                              |                        |  |
|------------------------------|------------------------|--|
| <b>Catalog No.</b><br>632442 | <b>Amount</b><br>20 µg | <b>Lot Number</b><br>Specified on product label. |
|------------------------------|------------------------|--|

### Description

pAmCyan1-N1 is a human codon-optimized expression vector that encodes a variant of the *Anemonia majano* cyan fluorescent protein, AmCyan1, which has been engineered for brighter fluorescence and higher expression in mammalian cells. pAmCyan1-N1 allows genes cloned into the multiple cloning site (MCS) upstream of the *AmCyan1* coding sequence to be expressed as fusions to the N-terminus of the fluorescent protein. The unmodified vector will express AmCyan1 in mammalian cells.

- **Cloning sites:** AgeI, ApaI, BamHI, BglII, Eco47III, EcoRI, HindIII, KpnI, NheI, SacI, SacII, Sall, SmaI, XhoI, XmaI
- **Antibiotic resistance:** Kanamycin (50 µg/ml) for propagation in *E. coli*

### Package Contents

- 1 tube pAmCyan1-N1 Vector

### Storage Conditions

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

### Expiration Date

- Specified on product label.

### Storage Buffer

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

### Concentration

- 500 ng/µl

### Plasmid size

- 4.7 kb

### Shipping Conditions

- Dry ice

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://www.takarabio.com/manuals)

The following documents apply to this product:

- pAmCyan1-N1 Vector Information
- pAmCyan1-N1 vector sequence in GenBank format

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#### Takara Bio USA, Inc.

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## 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:

| <b>Enzymes</b> | <b>Fragments</b> |
|----------------|------------------|
| BamHI          | 4.7 kb           |
| BamHI & NotI   | 4.0 & 0.7 kb     |

- $A_{260}/A_{280}$ : 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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### CATALOG NO.

632442

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