

pmOrange2 Vector

Catalog No.
632548

Amount
20 µg

Lot Number
Specified on product label.

Description

pmOrange2 is a Living Colors® fluorescent protein vector which encodes mOrange2, a variant of mOrange which has been modified for improved stability (Shaner et al. 2008). mOrange2 is derived from the tetrameric *Discosoma* sp. red fluorescent protein, DsRed. In this vector, the mOrange2 coding sequence is flanked by MCS regions, making it easy to excise the gene for use in other cloning applications. pmOrange2 is primarily intended to serve as a source of mOrange2 cDNA.

- **Plasmid Size:** 3.3 kb
- **Antibiotic Resistance:** Ampicillin (100 µg/ml for propagation in *E. coli*)

Package Contents

- 20 µg pmOrange2 Vector (500 ng/µl)

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

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at takarabio.com/manuals
The following documents apply to this product:

- pmOrange2 Vector Information
- pmOrange2 Vector Sequence in GenBank Format

References

Shaner, N. C. *et al.* Improving the photostability of bright monomeric orange and red fluorescent proteins. *Nat. Methods* **5**, 545–551 (2008).

Takara Bio USA, Inc.
2560 Orchard Parkway, San Jose, CA 95131, USA
U.S. Technical Support: technical_support@takarabio.com

United States/Canada 800.662.2566 (041824)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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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:

Vector	Enzymes	Fragments
pmOrange2	NotI	3.3 kb
	BamHI & ApoI	0.7 & 2.6 kb

- A_{260}/A_{280} : 1.8–2.0

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

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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STATEMENT 72

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STATEMENT 69

The DsRed-Monomer, DsRed Express, E2-Crimson and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,250,298; 7,671,185; 7,910,714; 8,664,471 and 8,679,749.

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Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

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

United States/Canada

Asia Pacific

Europe

Japan

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

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4/18/2024