Certificate of Analysis

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PRODUCT: pmOrange2-C1 Vector

CATALOG NO. 632550

AMOUNT 20 µg

LOT NUMBER
Specified on product label.

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

STORAGE CONDITIONS
- Store plasmid 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.

SHIPPING CONDITIONS
Blue ice (4°C) or
Dry ice (–70°C)

FOR RESEARCH USE ONLY

DESCRIPTION
pmOrange2-C1 is a Living Colors® fluorescent protein mammalian expression vector designed to express a protein of interest fused to the C-terminus of mOrange2, a variant of mOrange which has been modified for improved stability (1). mOrange2 is derived from the tetrameric *Discosoma sp.* red fluorescent protein, DsRed. The unmodified vector can be used to express mOrange2 in mammalian cells.

CONCENTRATION: 500 ng/µl

PLASMID SIZE: 4.7 kb

CLONING SITES
Acc65I, ApaI, BamHI, BglII, BspEI, EcoRI, HindIII, KpnI, SacI, SacII, SmaI, XhoI, XmaI

ANTIBIOTIC RESISTANCE
Kanamycin (50 µg/ml) for propagation in *E. coli*

PACKAGE CONTENTS
- 20 µg pmOrange2-C1 Vector

OTHER
- Vector Information Packet (PT5054-5)

QUALITY CONTROL DATA

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

Enzyme(s)	Fragment(s)
BamHI	4.7 kb
AgeI & KpnI	0.8 & 3.9 kb

- A_{260}/A_{280}: 1.8 – 2.0

NOTE

Clontech is pleased to be able to offer researchers the Fruit Fluorescent Proteins that were developed in the laboratory of Dr. Roger Tsien at the University of California, San Diego. The Tsien group has published extensively on the characteristics and uses of these exciting products, and Clontech can provide you with a bibliography if you have any questions regarding their performance, structure, or applications. Clontech has not repeated the experiments conducted by the Tsien group.

REFERENCE

1. Shaner, N. C. *et al.* (2008) *Nature Methods* **5**(6):545–551.

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The DsRedMonomer and the Fruit Fluorescent Proteins are covered by one or more of the following U.S. Patents: 7,005,511; 7,157,566; 7,393,923 and 7,250,298.

Living Colors Fluorescent Protein Products:

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This document has been reviewed and approved by the Clontech Quality Assurance Department.