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PRODUCT: pDsRed-Monomer-Mem Hyg Vector**CATALOG No.** 632513**LOT NUMBER**

Specified on product label.

STORAGE CONDITIONS

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

PLASMID 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 CONDITIONSBlue ice (4°C) or dry ice (-70°C)**DESCRIPTION**

pDsRed-Monomer-Mem Hyg encodes a fusion protein consisting of the DsRed-Monomer red fluorescent protein and the N-terminal membrane-targeting signal of neuromodulin (also called GAP-43). DsRed-Monomer is a monomeric mutant of the *Discosoma* sp. red fluorescent protein DsRed that has been optimized for efficient expression and enhanced brightness in mammalian cells. pDsRed-Monomer-Mem Hyg can be used for labeling the plasma membrane. The hygromycin resistance cassette allows you to create double-stable cell lines if this vector is used in conjunction with any other Living Colors[®] vector that contains a neomycin resistance cassette.

CONCENTRATION: 500 ng/ μl **PLASMID SIZE:** 5.8 kb**ANTIBIOTIC RESISTANCE**

- Ampicillin (100 $\mu\text{g}/\text{ml}$ for propagation in *E. coli* cells)
- Hygromycin B (200 $\mu\text{g}/\text{ml}$ for selection in mammalian cells)

PACKAGE CONTENTS

- 20 μg pDsRed-Monomer-Mem Hyg Vector
- Vector Information Packet (PT3891-5)

FOR RESEARCH USE ONLY**QUALITY CONTROL DATA**

See back of page.

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(PA842700)

QUALITY CONTROL DATA

- Digestion with the indicated restriction enzyme produced a fragment of the indicated size on an agarose/EtBr gel:

Enzyme	Fragment
<i>Asc</i> I	5.8 kb

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

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