

PRODUCT: pDendra2 Vector**CATALOG NO.** 632544**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

Dry ice (-70°C)

DESCRIPTION

pDendra2 encodes Dendra2, a green-to-red photoswitchable fluorescent protein derived from the octocoral *Dendronephthya* sp. In this vector, the Dendra2 coding sequence can be excised using BamHI and HindIII, for transfer into another vector. The pDendra2 vector also contains a *lac* promoter sequence, and therefore can be used to express Dendra2 in *E. coli*. It is primarily intended to serve as a source of Dendra2 cDNA.

CONCENTRATION: 500 ng/µl**PLASMID SIZE:** 4.1 kb**EXCISION SITE:** BamHI**ANTIBIOTIC RESISTANCE:**Ampicillin (100 µg/ml) for propagation in *E. coli* DH5α.**PACKAGE CONTENTS**

- 20 µg pDendra2 Vector

PRODUCT USER MANUALS

User manuals for Clontech products are available for download at www.clontech.com/manuals. The following user manuals apply to this product:

- pDendra2VectorInformationPacket(PT5021-5)
- Dendra2 Protocol-at-a-Glance (PT5019-2)

FOR RESEARCH USE ONLY**QUALITY CONTROL DATA**

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

| <u>Enzyme(s)</u> | <u>Fragment(s)</u> |
|------------------|--------------------|
| SmaI | 4.1 kb |
| HindIII & BamHI | 0.7 & 3.4 kb |

- A_{260}/A_{280} : 1.8–2.0
- Vector identity was confirmed by sequencing.

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