

PRODUCT: pDendra2-N Vector**CATALOG NO.** 632545**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-N is a mammalian expression vector that encodes Dendra2, a green-to-red photo-switchable fluorescent protein derived from the octocoral *Dendronephthya* sp. An MCS at the 5' end of the coding sequence makes it possible to insert a gene of interest in order to express it as an N-terminal fusion with Dendra2. The unmodified vector can be used to express Dendra2 in mammalian cells.

CONCENTRATION: 500 ng/µl**PLASMID SIZE:** 4.7 kb

CLONING SITES: AgeI, ApaI, BamHI, BglII, Eco47III, EcoRI, HindIII, KpnI, NheI, PstI, SacI, SacII, SalI, XhoI

ANTIBIOTIC RESISTANCE:Kanamycin (50 µg/ml) for propagation in *E. coli* DH5α.**PACKAGE CONTENTS**

- 20 µg pDendra2-N 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:

- pDendra2-N Vector Information Packet (PT5022-5)
- 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>
AgeI	4.7 kb
AgeI & NotI	0.7 & 4.0 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.