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:
• pDendra2 Vector Information Packet (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:

<table>
<thead>
<tr>
<th>Enzyme(s)</th>
<th>Fragment(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmaI</td>
<td>4.1 kb</td>
</tr>
<tr>
<td>HindIII &amp; BamHI</td>
<td>0.7 &amp; 3.4 kb</td>
</tr>
</tbody>
</table>

• $A_{_{260}}/A_{_{280}}$: 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.