pTimer Vector

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Amount</th>
<th>Lot Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>632402</td>
<td>20 μg</td>
<td>Specified on product label.</td>
</tr>
</tbody>
</table>

Description
pTimer is a prokaryotic expression vector that encodes DsRed1-E5, a fluorescent protein that changes color as it ages. Shortly after translation, DsRed1-E5 emits green light; its red fluorophore emerges later, hours after translation. Because of its predictable color shift, DsRed1-E5 acts as a timer, useful for monitoring changes in gene activity in living cells. pTimer is primarily intended to serve as a convenient source of the DsRed1-E5 cDNA. The DsRed1-E5 coding sequence is flanked by separate and distinct multiple cloning sites at the 5' and 3' ends so that the gene can easily be excised for use in other expression systems. Alternatively, the DsRed1-E5 coding sequence can be amplified by PCR.

Package Contents
- 20 μg pTimer Vector

Storage Conditions
- Store 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.

Storage Buffer
- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

Concentration
- 500 ng/μl

Shipping Conditions
- Dry ice

Propagation in E. coli
- Recommended host strain: DH5α
- Selectable marker: plasmid confers resistance to ampicillin (50 μg/ml) to E. coli hosts.
- E. coli replication origin: pUC
- Copy number: high
Quality Control Data

Plasmid Identity & Purity

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:
  
<table>
<thead>
<tr>
<th>Enzyme</th>
<th>Fragment(s) (kb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>StuI</td>
<td>3.0 &amp; 0.3</td>
</tr>
<tr>
<td>AatII</td>
<td>3.3</td>
</tr>
</tbody>
</table>

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

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.
Notice to Purchaser

pTimer Vector

CATALOG NO.
632402

NOTICE TO PURCHASER:

Our products are to be used for Research Use Only. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product’s web page at http://www.takarabio.com. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

STATEMENT 24

DsRedExpress, DsRedExpress2, E2-Crimson, and HcRed are covered by one or more of the following U.S. Patent Nos. 7,157,565; 8,664,471; 8,679,749 and non-U.S. international equivalents in some countries.

TRADEMARKS:

©2022 Takara Bio Inc. All Rights Reserved.
All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.