

## pTimer Vector

**Catalog No.**

632402

**Amount**

20 µg

**Lot Number**

Specified on product label.

### 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

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## 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:

<b>Enzyme</b>	<b>Fragment(s) (kb)</b>
StuI	3.0 & 0.3
AatII	3.3

- 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.

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### 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.

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