

pHcRed1-1 Vector

Catalog No.
632411

Amount
20 µg

Lot Number
Specified on product label.

Description

pHcRed1-1 is a promoterless, mammalian expression vector which can be used to monitor transcription from different promoters and promoter/enhancer combinations inserted into the multiple cloning site (MCS) located upstream of the HcRed1 coding sequence. Promoters should be cloned into the pHcRed1-1 MCS upstream from the HcRed1 coding sequences. Without the addition of a functional promoter, this vector will not express HcRed1. pHcRed1-1 can be transfected into mammalian cells using any standard transfection method. If required, stable transformants can be selected using G418.

Package Contents

- 20 µg pHcRed1-1 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 (-70°C)

Propagation in *E. coli*

- Suitable host strains: DH5 α , HB101, and other general purpose strains. Single-stranded DNA production requires a host containing an F plasmid such as JM109 or XL1-Blue.
- Selectable marker: plasmid confers resistance to kanamycin (50 µg/ml) to *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: High

Excitation and Emission Maxima of HcRed1

- Excitation: 588 nm
- Emission: 618 ± 4 nm

Takara Bio USA, Inc.

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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:

Enzyme(s)	Fragment(s) (kb)
SacII	4.1
SacII & NotI	3.4 & 0.7

- 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

DsRed2, DsRedExpress, DsRedExpress2, E2-Crimson, HcRed and pTimer are covered by one or more of the following U.S. Patent Nos. 7,166,444; 7,150,979; 7,157,565; 7,183,399; 7,858,844; 8,093,450; 8,461,769 and non-

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4/16/2021

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