

pHcRed1-Mito Vector

Catalog No.
632434

Amount
20 µg

Lot Number
Specified on product label.

Description

pHcRed1-Mito encodes a far-red fluorescent protein HcRed1 fused with mitochondrial targeting sequence from the precursor protein of human cytochrome c oxidase subunit VIII. HcRed1 is a fluorescent variant of a chromoprotein found in the reef coral *Heteractis crispa*. The coding sequence for HcRed1 has been human codon optimized for higher expression in mammalian cells. pHcRed1-Mito can be used for specific labeling of mitochondria in living cells.

Package Contents

- 1 tube of pHcRed1-Mito Vector

Storage Conditions

- Store plasmids 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)

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- Vector Information Packet (PT3734-5)

Propagation in *E. coli*

- Selectable marker: Plasmids confer resistance to kanamycin (50 µg/ml) in *E. coli*.

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:

Vector	Enzyme(s)	Fragment(s)
pHcRed1-Mito	AgeI	4.7 kb
	NcoI	1.9, 1.7, 0.7 & 0.35 kb

- 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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NOTICE TO PURCHASER:

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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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4/5/2021

Notice to Purchaser



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