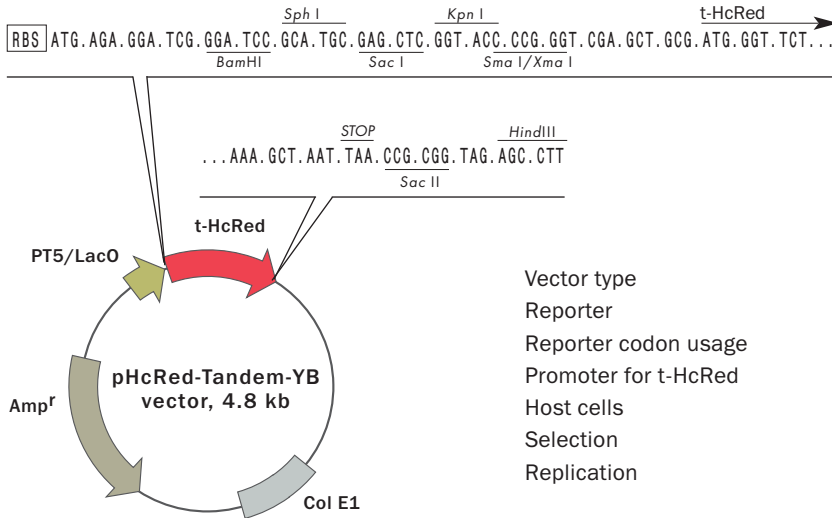


# Bacterial expression vector pHcRed-Tandem-YB

Product	Cat.#	Size
pHcRed-Tandem-YB	FP209	20 µg

Please contact your local distributor for exact prices and delivery information.



Vector type	bacterial expression vector
Reporter	t-HcRed
Reporter codon usage	<i>Saccharomyces cerevisiae</i>
Promoter for t-HcRed	T5 promoter/lac operator
Host cells	prokaryotic
Selection	ampicillin
Replication	ColE1 ori

For vector sequence, please visit our Web site at [www.evrogen.com/support/vector-info.shtml](http://www.evrogen.com/support/vector-info.shtml)

## Use

- t-HcRed expression in bacterial cells using T5 promoter/lac operator
- Source of the t-HcRed coding sequence

## Vector description

pHcRed-Tandem-YB is a prokaryotic expression vector encoding far-red fluorescent protein t-HcRed. Reporter codon usage is optimized for high expression in yeast *S. cerevisiae*.

The vector is primarily intended as a source of t-HcRed coding sequence. Flanking restriction sites are convenient for t-HcRed gene excision and its further insertion into other expression vectors of choice. Alternatively, t-HcRed coding sequence can be amplified by PCR.

**Note:** The plasmid DNA was isolated from dam<sup>+</sup>-methylated *E. coli*. Therefore some restriction sites are blocked by methylation. If you wish to digest the vector using such sites you will need to transform the vector into a dam<sup>-</sup> host and make fresh DNA.

The vector can be also used for t-HcRed expression in prokaryotes under the control of T5 promoter/lac operator. The vector backbone contains ColE1 origin of replication and ampicillin resistance gene for propagation and selection in *E. coli*.

## Location of features:

**T5 promoter/lac operator element:** 7-87

T5 transcription start: 61

**t-HcRed coding sequence:** 166-1548

**Lambda t0 transcriptional termination region:** 1577-1671

**rrnB T1 transcriptional termination region:** 2433-2531

**ColE1 origin of replication:** 3007

**beta-lactamase coding sequence:** 4625-3765

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## MATERIAL SAFETY DATA SHEET INFORMATION

To the best of our knowledge, these products do not require a Material Safety Data Sheet. However, all the properties of these products (and, if applicable, each of their components) have not been thoroughly investigated. Therefore, we recommend that you use gloves and eye protection, and wear a laboratory coat when working with these products.