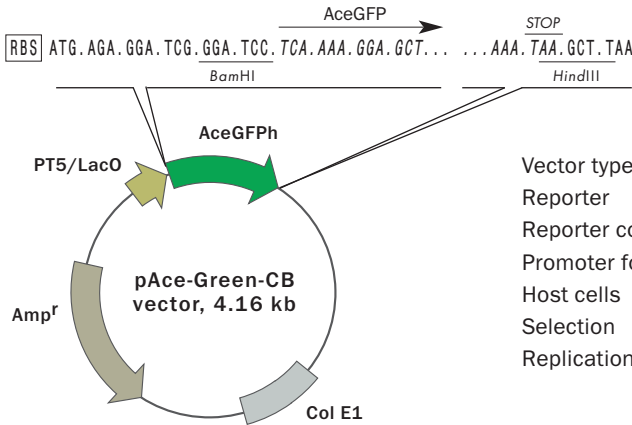


# Bacterial expression vector pAce-Green-CB

Product	Cat.#	Size
pAce-Green-CB	FP109	20 µg

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



Vector type	bacterial expression vector
Reporter	AceGFP
Reporter codon usage	mammalian
Promoter for AceGFP	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

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

## References

Haas, J., et al. (1996) Codon usage limitation in the expression of HIV-1 envelope glycoprotein. *Curr. Biol.* 6:315–324.

## Vector description

pAce-Green-CB vector is a prokaryotic expression vector encoding the *Aequorea coerulea* enhanced green fluorescent protein AceGFP. Reporter codon usage is optimized for high expression in mammalian cells (humanized) (Haas et al., 1996).

The vector is primarily intended as a source of AceGFP coding sequence. Flanking restriction sites are convenient for AceGFP gene excision and its further insertion into other expression vectors of choice. Alternatively, AceGFP 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 AceGFP 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

**AceGFP coding sequence:** 141-871

**Lambda t0 transcriptional termination region:** 907–1001

**rrnB T1 transcriptional termination region:** 1763–1861

**ColE1 origin of replication:** 2337

**beta-lactamase coding sequence:** 3955-3095

## Notice to Purchaser:

This product contains a proprietary nucleic acid coding for a proprietary fluorescent protein(s) intended to be used by academic (non-commercial) entities and for research purposes only. Any use of the proprietary nucleic acid or protein other than for research use or by a commercial entity is strictly prohibited. Transfer of this product by purchaser to any other party is specifically prohibited.

## 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.