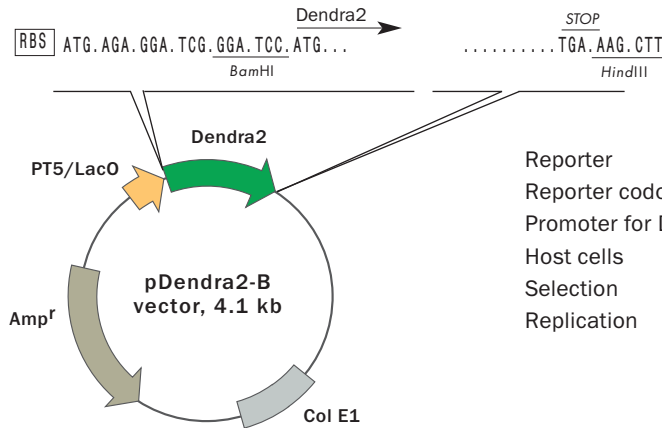


Bacterial expression vector pDendra2-B

Product	Cat.#	Size
pDendra2-B	FP823	20 µg

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



Reporter	Dendra2
Reporter codon usage	mammalian
Promoter for Dendra2	T5 promoter/lac operator
Host cells	prokaryotes
Selection	ampicillin
Replication	ColE1 ori

For vector sequence, please visit our Web site at www.evrogen.com/support/vector-info.shtml

Use

- Dendra2 expression in bacterial cells using T5 promoter/lac operator
- Source of the Dendra2 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

pDendra2-B is a prokaryotic expression vector encoding photoswitchable green-to-red fluorescent protein Dendra2. 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 Dendra2 coding sequence. Flanking restriction sites are convenient for Dendra2 gene excision and its further insertion into other expression vectors of choice. Alternatively, Dendra2 coding sequence can be amplified by PCR.

Note: The plasmid DNA was isolated from *dam*⁺-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*⁻ host and make fresh DNA.

The vector can be also used for Dendra2 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

Dendra2 coding sequence: 133-822

Lambda t0 transcriptional termination region: 871-965

rrnB T1 transcriptional termination region: 1727-1825

ColE1 origin of replication: 2301

beta-lactamase coding sequence: 3919-3059

Notice to Purchaser:

Photoactivatable FP-related products are 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.