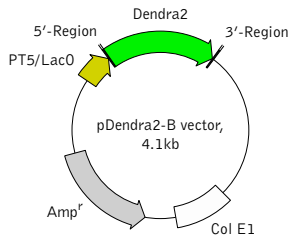


pDendra2-B vector

The vector sequence has been compiled using the information from sequence databases, published literature, and other sources, together with partial sequences obtained by Evrogen. This vector has not been completely sequenced.



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

5' Region

RBS ATG. AGA. GGA. TCG. GGA. TCC. ATG. A TGA. AAG. CTT . . .
BamH I Dendra2 STOP Hind III

3' Region

Location of features

T5 promoter/lac operator element: 7-87
 T5 transcription start: 61
 DendraV 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

Vector description

pDendra2-B is a prokaryotic expression vector encoding green | 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*.

Product	Cat.#	Size
pDendra2-B vector	FP823	20 µg
The price does not include delivery. The price varies in different countries. Please contact your local distributor for exact prices and delivery information.		
Vector type	bacterial expression vector	
Reporter	Dendra2	
Reporter codon usage	mammalian	
Promoter for Dendra2	T5 promoter/lac operator	
Host cells	prokaryotic	
Selection	ampicillin	
Replication	ColE1 ori	
Use	Source of the Dendra2 coding sequence; Dendra2 expression in bacterial cells	

References

Haas et al. (1996) "Codon usage limitation in the expression of HIV-1 envelope glycoprotein." *Curr Biol*, 6 (3): 315-324 / pmid: 8805248

Notice to Purchaser:

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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.