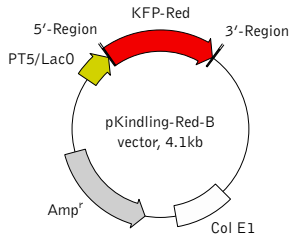


pKindling-Red-B vector

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/products/vectors.shtml>

5' Region

RBS ATG. AGA. GGA. TCG. GGA. TCC. ATG. G TGA. AGC. TT . . .
BamH I KFP-Red STOP
Nco I* Hind III

* — not unique site.

3' Region

Location of features

T5 promoter/lac operator element: 7-87
T5 transcription start: 61
KFP-Red coding sequence: 133-831
Lambda t0 transcriptional termination region: 852-946
rrnB T1 transcriptional termination region: 1708-1806
ColE1 origin of replication: 2282
beta-lactamase coding sequence: 3900-3040

Vector description

pKindling-Red-B is a prokaryotic expression vector encoding kindling red fluorescent protein KFP-Red. 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 KFP-Red coding sequence. Flanking restriction sites are convenient for excision of KFP-Red sequence and its further insertion into other expression vectors of choice. Alternatively, KFP-Red 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 KFP-Red 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
pKindling-Red-B vector	FP302	20 µg
Vector type	bacterial expression vector	
Reporter	KFP-Red	
Reporter codon usage	mammalian	
Promoter for KFP-Red	T5 promoter/lac operator	
Host cells	prokaryotic	
Selection	ampicillin	
Replication	ColE1 ori	
Use	Source of the KFP-Red coding sequence; KFP-Red expression in bacterial cells	

References

Haas, J. 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:

KFP-Red-related materials (also referred to as "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.

MSDS information is available at <http://www.evrogen.com/MSDS.shtml>