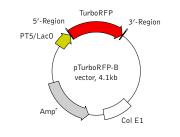


pTurboRFP-B vector

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



Product	Cat.#	Size
pTurboRFP-B vector	FP233	20 µg
Vector type Reporter Reporter codon usage Promoter for TurboRFP Host cells Selection Replication Use	bacterial expression vec TurboRFP mammalian T5 promoter/lac operato prokaryotic ampicillin CoIE1 ori Source of the TurboRFP o expression in bacterial c	tor or coding sequence; TurboRFP

For vector sequence, please visit our Web site at http://www.evrogen.com/products/vectors.shtml

5' Region

		STOP	STOP
RBS	ATG.AGA.GGA.TCG.GGA.T	CC.ATG.AG	TGA.AGC.TT
	BamH	I	Hind III

3' Region

Location of features

T5 promoter/lac operator element: 7-87 T5 transcription start: 61 TurboRFP coding sequence: 132-827 Lambda t0 transcriptional termination region: 848-942 rrnB T1 transcriptional termination region: 1704-1802 ColE1 origin of replication: 2278 beta-lactamase coding sequence: 3896-3036

Vector description

pTurboRFP-B is a prokaryotic expression vector encoding red (orange) fluorescent protein TurboRFP. 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 TurboRFP coding sequence. Flanking restriction sites are convenient for excision of TurboRFP sequence and its further insertion into other expression vectors of choice. Alternatively, TurboRFP 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 TurboRFP expression in prokaryotes under the control of T5 promoter/lac operator. The vector backbone contains CoIE1 origin of replication and ampicillin resistance gene for propagation and selection in E. coli.

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

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