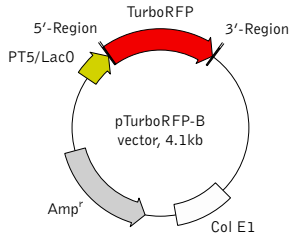


pTurboRFP-B vector

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 . GAG . GAT . CGG . GAT . CCA . TGA . G TGA . AGC . TT . . .
BamH I STOP STOP 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 TurboRFP gene excision 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 ColE1 origin of replication and ampicillin resistance gene for propagation and selection in *E. coli*.

Product	Cat.#	Size
pTurboRFP-B vector	FP233	20 µg
Vector type	bacterial expression vector	
Reporter	TurboRFP	
Reporter codon usage	mammalian	
Promoter for TurboRFP	T5 promoter/lac operator	
Host cells	prokaryotic	
Selection	ampicillin	
Replication	ColE1 ori	
Use	Source of the TurboRFP coding sequence; TurboRFP 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

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