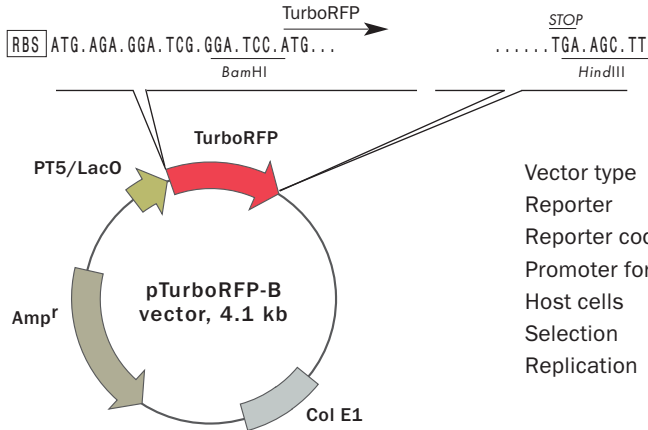


Bacterial expression vector pTurboRFP-B

Product	Cat.#	Size
pTurboRFP-B	FP233	20 µg

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



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

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

Use

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

pTurboRFP-B is a prokaryotic expression vector encoding red 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*.

Location of features:

T5 promoter/lac operator element: 7–87

T5 transcription start: 61

TurboRFP coding sequence: 133-828

Lambda t0 transcriptional termination region: 849–943

rrnB T1 transcriptional termination region: 1705–1803

ColE1 origin of replication: 2279

Beta-lactamase coding sequence: 3897-3037

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