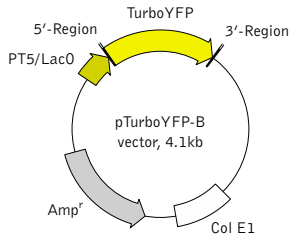


## pTurboYFP-B vector

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. A . . . . . TGA. AAG. CTT . . .  
BamH I TurboYFP STOP Hind III

### 3' Region

### Location of features

T5 promoter/lac operator element: 7-87  
 T5 transcription start: 61  
 TurboYFP coding sequence: 133-864  
 Lambda t0 transcriptional termination region: 886-980  
 rrnB T1 transcriptional termination region: 1742-1840  
 ColE1 origin of replication: 2316  
 beta-lactamase coding sequence: 3934-3074

### Vector description

pTurboYFP-B is a prokaryotic expression vector encoding yellow fluorescent protein TurboYFP. 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 TurboYFP coding sequence. Flanking restriction sites are convenient for excision of TurboYFP sequence and its further insertion into other expression vectors of choice. Alternatively, TurboYFP coding sequence can be amplified by PCR.

**Note:** The plasmid DNA was isolated from dam<sup>+</sup>-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<sup>-</sup> host and make fresh DNA.

The vector can be also used for TurboYFP 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  |
|-----------------------|--|-------|
| pTurboYFP-B vector    | <b>FP613</b>   | 20 µg |
| Vector type           | bacterial expression vector  |       |
| Reporter              | TurboYFP   |       |
| Reporter codon usage  | mammalian  |       |
| Promoter for TurboYFP | T5 promoter/lac operator   |       |
| Host cells            | prokaryotic  |       |
| Selection             | ampicillin   |       |
| Replication           | ColE1 ori  |       |
| Use                   | Source of the TurboYFP coding sequence; TurboYFP 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:

TurboYFP-related materials (also referred to as "Products") are intended for research use only.

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