

## Certificate of Analysis

### pF1A T7 Flexi® Vector:

Part No.	Size (units)
C844A	20µg

**Description:** The pF1A T7 Flexi® Vector<sup>(a-c)</sup> is designed for use with the Flexi® System, Entry/Transfer (Cat.# C8640), and the Flexi® System, Transfer (Cat.# C8820). The vector contains a T7 promoter for bacterial or in vitro protein expression of a protein-coding region. The vector also contains the lethal barnase gene for positive selection of the insert, an ampicillin-resistance gene for selection of the plasmid and unique SgfI and PmeI sites that allow easy insertion or transfer of the sequence of interest. Inserts containing a protein-coding region can easily be transferred from the pF1A T7 Flexi® Vector to other Flexi® Vectors with different expression options. For more information, see the *Flexi® Vector Systems Technical Manual #TM254* available online at: [www.promega.com/protocols](http://www.promega.com/protocols)

**Concentration:** 100ng/µl.

**GenBank® Accession Number:** AY753576.

**Storage Buffer:** The pF1A T7 Flexi® Vector is supplied in 10mM Tris-HCl (pH 8.0), 1mM EDTA.

**Storage Conditions:** Store the vector at -20°C. Avoid multiple freeze-thaw cycles and exposure to frequent temperature changes. These fluctuations can greatly alter product stability.

**Usage Notes:** Concentration gradients may form in frozen products and should be dispersed upon thawing. Mix well prior to use.

Part# 9PIC844

Revised 12/14



AF9PI C844 1214C844



## Promega

### Promega Corporation

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## Quality Control Assays

**Nuclease Assay:** Following incubation of 1µg of pF1A T7 Flexi® Vector in Restriction Enzyme Buffer B at 37°C for 16 hours, no evidence of nuclease activity is detected by agarose gel electrophoresis.

**Physical Purity:**  $A_{260}/A_{280} > 1.80$ .

**Restriction Digestion:** The presence of unique restriction sites for PmeI and SgfI is confirmed by showing that the vector yields the expected fragment sizes after digesting 1µg of vector for 2 hours with 10 units of PmeI, SgfI and BglII.

Signed by:

J. Stevens, Quality Assurance

### PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

Promega manufactures products for a number of intended uses. Please refer to the product label for the intended use statements for specific products. Promega products contain chemicals which may be harmful if misused. Due care should be exercised with all Promega products to prevent direct human contact.

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GenBank is a registered trademark of US Dept of Health and Human Services.

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Product claims are subject to change. Please contact Promega Technical Services or access the Promega online catalog for the most up-to-date information on Promega products.

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<sup>(a)</sup>Patent Pending.

<sup>(b)</sup>For research use only. Persons wishing to use this product or its derivatives in other fields of use, including without limitation, commercial sale, diagnostics or therapeutics, should contact Promega Corporation for licensing information.

<sup>(c)</sup>U.S. Pat. Nos. 8,293,503 and 8,367,403, European Pat. No. 1685247 and other patents and patents pending.

## pF1A T7 Flexi® Vector Features and Circle Map

The following features are present in the vector based on nucleotide sequence.

T7 RNA polymerase promoter (-17 to +3)	21-40
SgfI site	100-107
barnase coding region	109-444
PmeI site	446-453
T7 terminator	573-620
β-lactamase (Amp <sup>r</sup> ) coding region	954-1814
ColE1-derived plasmid origin of replication	1969-2005
cer site (site for <i>E. coli</i> /XerCD recombinase)	2676-2961
rrnB transcription terminator	3012-3413

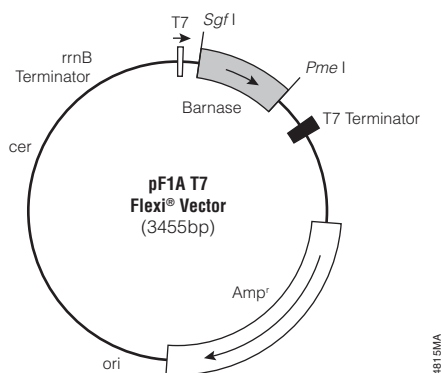


Figure 1. pF1A T7 Flexi® Vector circle map and sequence reference points.

**Note:** Maps of all the Flexi® Vectors are available at:  
[www.promega.com/vectors/cloning\\_vectors.htm](http://www.promega.com/vectors/cloning_vectors.htm)

## Related Products

Product	Size	Cat. #
Flexi® System, Entry/Transfer	5 entry and 20 transfer reactions	C8640
Flexi® System, Transfer	100 transfer reactions	C8820
Carboxy Flexi® System, Transfer	50 transfer reactions	C9320
10X Flexi® Enzyme Blend (SgfI & PmeI)	25µl	R1851
	100µl	R1852
Carboxy Flexi Enzyme Blend (SgfI & EcoICRI)	50µl	R1901
HaloTag® Flexi® Vectors—CMV Dilution Series Sample Pack	9 × 2µg	G3780
Single Step (KRX) Competent Cells	20 × 50µl	L3002

There are Flexi® Vectors available for many different applications.  
 Visit: [www.promega.com/applications/cloning](http://www.promega.com/applications/cloning) to find out more.

## Summary of Changes

The following changes were made to the 12/14 revision of this document:  
 1. Expired patent or license statements were removed.