## pF1K T7 Flexi® Vector:

Part No. Size (units	
C845A	20µg

**Description:** The pF1K 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, a kanamycin-resistance gene for selection of the plasmid and unique Sgfl and Pmel sites that allow easy insertion or transfer of the sequence of interest. Inserts containing a protein-coding region can easily be transferred from the pF1K T7 Flexi® Vector to other Flexi® Vectors with different expression options (Table 1). For more information, see the *Flexi® Vector Systems Technical Manual* #TM254.

Cat.#	Flexi <sup>®</sup> Vector	Utility	Expression	Drug Selection
C8441	pF1A T7 Flexi <sup>®</sup> Vector	Protein expression	E. coli and in vitro (T7 promoter)	Ampicillin
C8451	pF1K T7 Flexi <sup>®</sup> Vector			Kanamycin
C8461	pFN2A (GST) Flexi <sup>®</sup> Vector	Protein expression	E. coli and in vitro (T7 promoter)	Ampicillin
C8471	pFN2K (GST) Flexi <sup>®</sup> Vector	and purification		Kanamycin
L5671	pF3A WG (BYDV) Flexi® Vector	Protein expression	Wheat Germ in vitro (T7, SP6)	Ampicillin
L5681	pF3K WG (BYDV) Flexi® Vector	Protein expression	Wheat Germ in vitro (T7, SP6)	Kanamycin
C8481 C8491	pF4A CMV Flexi® Vector pF4K CMV Flexi® Vector	Protein expression	Mammalian (CMV promoter) and in vitro (T7 promoter)	Ampicillin Kanamycin

### **Usage Information**

Concentration: 100ng/µl.

GenBank® Accession Number: AY753577.

Storage Buffer: The pF1K T7 Flexi® Vector is supplied in 10mM Tris-HCI (pH 8.0), 1mM EDTA.

**Storage Conditions:** Store the vector at  $-20^{\circ}$ 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.

## **Quality Control Assays**

Nuclease Assay: Following incubation of 1µg of pF1K 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<sub>260</sub>/A<sub>280</sub> > 1.80.

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

J. Stevens

Signed by:

J. Stevens, Quality Assurance

(a)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.

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

Part# 9PIC845 Revised 12/14





**Promega Corporation** 

2800 Woods Hollow Road	1
Madison, WI 53711-5399	USA
Telephone	608-274-4330
Toll Free	800-356-9526
Fax	608-277-2516
Internet	www.promega.com

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All specifications are subject to change without prior notice.

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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# **Usage Information**

## pF1K 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			
Sgfl site	100-107			
barnase coding region	109-444			
Pmel site	446-453			
T7 terminator	573-620			
kanamycin resistance coding region	1001-1795			
ColE1-derived plasmid origin of replication	1964-2000			
cer site (site for <i>E. coli</i> XerCD recombinase)	2671-2956			
rrnB transcription terminator	3007-3408			

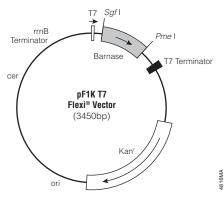


Figure 1. pF1K T7 Flexi® Vector circle map and sequence reference points.

#### **Related Products**

Product	Size	cat.#
Flexi <sup>®</sup> System, Entry/Transfer	5 entry and 20 transfer reactions	s C8640
Flexi <sup>®</sup> System, Transfer	100 transfer reactions	c8820
Carboxy Flexi <sup>®</sup> System, Transfer	50 transfer reactions	s C9320
10X Flexi <sup>®</sup> Enzyme Blend (Sgfl & Pme	l) 25µ	R1851
	100µ	I R1852
Carboxy Flexi Enzyme Blend (Sgfl & Ed	colCRI) 50µ	I R1901
HaloTag <sup>®</sup> Flexi <sup>®</sup> Vectors–CMV Dilutio	n Series Sample Pack 9 × 2µg	G3780
Single Step (KRX) Competent Cells	20 × 50µ	L3002

There are Flexi® Vectors available for many different applications. Visit: 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.