

## Certificate of Analysis

### pFN6K (HQ) Flexi® Vector:

Part No.	Size
C852A	20µg

**Description:** The pFN6K (HQ) Flexi® Vector<sup>(a,b)</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 expression of a protein-coding region. The vector appends an N-terminal MKHQHQQAIA coding region, which can be used to purify the expressed protein using the MagneHis™, MagZ™, HisLink™ 96 or HisLink™ Protein Purification Systems (Cat.# V8500 and V8550; V8830; V3680 and V3681; and V8821, respectively). The vector contains the lethal barnase gene for positive selection of the insert, a kanamycin-resistance gene for selection of the plasmid and unique SgfI and PmeI sites, which allow easy insertion or transfer of the sequence of interest. Inserts containing a protein-coding region can be easily transferred from the pFN6K (HQ) Flexi® Vector to other Flexi® Vectors with different expression options. For more information, see the *Flexi® Vector Systems Technical Manual #TM254*.

### Usage Information

**Concentration:** 100ng/µl.

**GenBank® Accession Number:** DQ132630.

**Storage Buffer:** The pFN6K (HQ) 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. See label for expiration date.

**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 pFN6K (HQ) 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 is linearized and yields the expected fragment sizes after digesting 1µg of vector for 2 hours with 10 units of PmeI, SgfI and Bgl II.

Part# 9PIC852

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**Promega**

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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.

Signed by:

J. Stevens, Quality Assurance

## pFN6K (HQ) Flexi® Vector Features and Circle Map

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

T7 RNA polymerase promoter (-17 to +2)	21-39
MKHQHQAIA coding region (HQ tag)	70-102
SgfI site	94-101
barnase coding region	125-460
PmeI site	462-469
T7 terminator	589-636
kanamycin-resistance coding region	1017-1811
Co/E1-derived plasmid origin of replication	1980-2016
cer site (site for <i>E. coli</i> XerCD recombinase)	2687-2972
rrnB transcription terminator	3023-3424

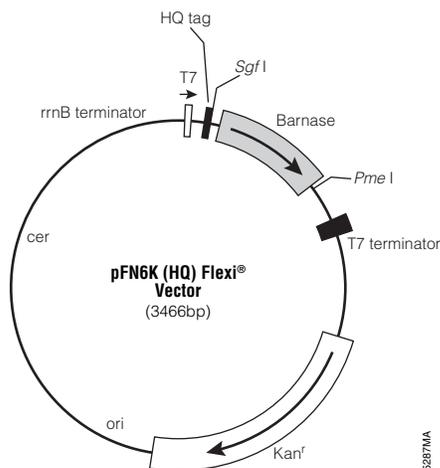


Figure 1. pFN6K (HQ) Flexi® Vector circle map and sequence reference points.

**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	5 × 200µl	L3001

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.