

Certificate of Analysis

pFC7K (HQ) Flexi® Vector:

| Part No. | Size |
|----------|------|
| C854A | 20µg |

Description: The pFC7K (HQ) Flexi® Vector^(a,b) is designed for use with the Carboxy Flexi® System, Transfer (Cat.# C9320). The vector contains a T7 promoter for bacterial or in vitro expression of a protein coding region. The vector is configured to append a C-terminal VSHQHQQ 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 EcoICR I sites, which allow easy insertion of the sequence of interest. Inserts containing a protein-coding region can be easily transferred to the pFC7K (HQ) Flexi® Vector from other Flexi® Vectors with different expression options. Once inserted in this vector, the sequence is no longer available for transfer because of the absence of a PmeI site at the 3' end of the open reading frame. For more information, see the *Flexi® Vector Systems Technical Manual* #TM254.

Usage Information

Concentration: 100ng/µl.

GenBank® Accession Number: DQ133907.

Storage Buffer: The pFC7K (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 pFC7K (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 EcoICR I 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 EcoICR I, SgfI and Bgl II.

^(a)Patent Pending.

^(b)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

Part# 9PIC854

Revised 7/13



Promega

Promega Corporation

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pFC7K (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 |
| SgfI site | 61-68 |
| barnase coding region | 70-405 |
| EcoICR I site | 425-430 |
| HQHGHQ coding region (HQ tag) | 430-447 |
| T7 terminator | 543-590 |
| Kanamycin-resistance coding region | 971-1765 |
| Co/E1-derived plasmid origin of replication | 1934-1970 |
| cer site (site for <i>E. coli</i> XerCD recombinase) | 2641-2926 |
| rrnB transcription terminator | 2977-3378 |

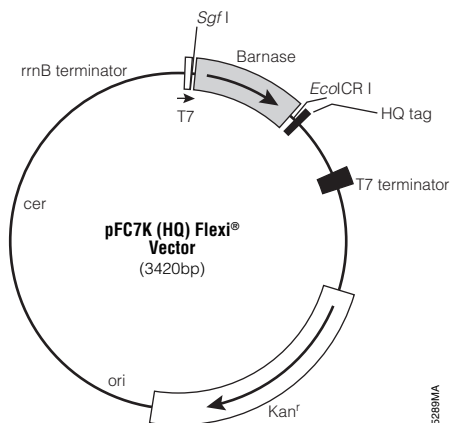


Figure 1. pFC7K (HQ) Flexi® Vector circle map and sequence reference points.

Note: Maps of all the Flexi® Vectors are available at:
www.promega.com/vectors/cloning_vectors.htm

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 x 200µl | L3001 |

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