

## Certificate of Analysis

### pFN6A (HQ) Flexi® Vector:

| Part No. | Size |
|----------|------|
| C851A    | 20µg |

**Description:** The pFN6A (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, an ampicillin-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 pFN6A (HQ) Flexi® Vector to other Flexi® Vectors with different expression options. For more information, see the *Flexi® Vector Systems Technical Manual #TM254*.

**Concentration:** 100ng/µl.

**GenBank® Accession Number:** DQ132629.

**Storage Buffer:** The pFN6A (HQ) Flexi® Vector is supplied in 10mM Tris-HCl, 1mM EDTA (pH 8.0).

**Storage Conditions:** See the Product Information Label for storage recommendations and expiration date. Avoid multiple freeze-thaw cycles and exposure to frequent temperature changes. These fluctuations can greatly alter product stability.

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

Part# 9PIC851

Revised 5/13



AF9PI C851 0709C851



**Promega**

#### Promega Corporation

|                        |  |
|------------------------|--|
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### Quality Control Assays

**Nuclease Assay:** Following incubation of 1µg of pFN6A (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 BglII.

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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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<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

## Features List and Map for the pFN6A (HQ) Flexi® Vector

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   |
| β-lactamase (Amp <sup>r</sup> ) coding region        | 970-1830  |
| Co/E1-derived plasmid origin of replication          | 1985-2021 |
| cer site (site for <i>E. coli</i> XerCD recombinase) | 2692-2977 |
| rrnB transcription terminator                        | 3028-3429 |

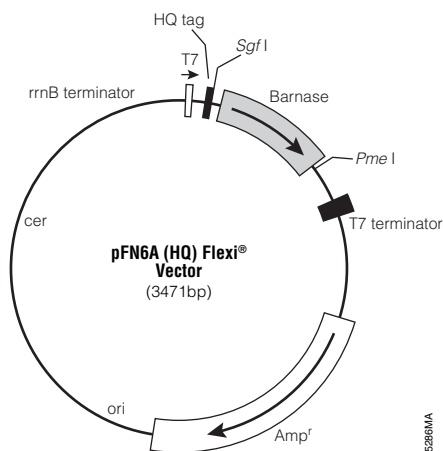


Figure 1. pFN6A (HQ) Flexi® Vector map.

Sequence information and restriction enzyme tables for the Flexi® Vectors are available online at: [www.promega.com/vectors/](http://www.promega.com/vectors/)

## 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.