Certificate of Analysis

pFN38K HiBiT CMV-neo Flexi® Vector:

Part No.

Size

N240A

20µg

Instructions for use of this product can be found in the Nano-Glo® HiBiT Lytic Detection System Technical Manual #TM516 and Nano-Glo® HiBiT Extracellular Detection System Technical Manual #TM523, available online at: www.promega.com/protocols

Description: The pFN38K HiBiT CMV-neo Flexi® Vector^(a,b) is configured to facilitate simple, efficient transfer of the gene of interest into a vector designed for genetic attachment of the HiBiT peptide tag to the N terminus of the protein of interest using the Flexi® Cloning System (Cat.# C8640). The vector can be used for both stable and transient gene expression and encodes kanamycin resistance for bacterial selection and neomycin resistance for mammalian selection.

The pFN38K HiBiT CMV-neo Flexi® Vector contains the following features:

- A CMV immediate-early enhancer/promoter for constitutive expression in mammalian cells.
- The HiBiT peptide tag for bioluminescent detection of the protein of interest.
- The lethal barnase gene for positive selection of the insert. Note: The pFN38K HiBiT CMV-neo Flexi® Vector can only be propagated in E. coli once the barnase gene is replaced with the protein-coding sequence of interest.
- A kanamycin-resistance gene for selection of the plasmid in bacteria and a neomycin-resistance gene for selection in mammalian cells
- Unique Safl and Pmel sites, which allow easy insertion of any protein-coding sequence flanked by Safl and Pmel sites (e.g., from PCR products or N-terminal Flexi® Vectors). In-frame transfer results in a gene encoding a HiBiT fusion to the N terminus of the protein of interest. Once inserted in this vector, the sequence is available for transfer to other Flexi® Vectors. For more information, see the Flexi® Vector Systems Technical Manual #TM254, available online at: www.promega.com/protocols/

Concentration: 1µg/µl.

Storage Buffer: The pFN38K HiBiT CMV-neo Flexi® Vector is supplied in 10mM Tris-HCI. 1mM EDTA (pH 7.4).

Storage Conditions: Store at -30°C to -10°C.

Usage Notes:

- Expression of the HiBiT-tagged protein will only result when the proper reading frame is maintained between the HiBiT tag and the gene of interest.
- Avoid multiple freeze-thaw cycles.

Expiration Date: See product label for expiration date.

Quality Control Assays

Contaminant Assays

Contaminating Nucleic Acids: RNA, single-stranded DNA and chromosomal DNA are not evident in specified quantities of the vector as determined by agarose gel electrophoresis.

Physical Purity: $A_{260}/A_{280} \ge 1.80$, $A_{260}/A_{250} \ge 1.05$.

Functional Assays

Identity: The vector has been sequenced completely and has 100% identity with the published sequence available at: www.promega.com/products/vectors

Restriction Digestion: The functional purity of the vector DNA is verified by successful digestion with restriction enzymes at the optimal temperature for 1 hour. Samples are examined by agarose gel electrophoresis, comparing cut and uncut vector DNA with marker DNA.

Signed by:

Per Wheeler

Wheeler, Quality Assurance

Part# 9PIN240 Printed 8/17



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(a)Patents Pending

^(b)U.S. Pat. Nos. 8,293,503, 9,018,014, and 8,367,403, European Pat. No. 1685247 and other patents and patents pending.

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Usage Information

pFN38K HiBiT CMV-neo Flexi® Vector Features and Circle Map

The following features are present in the pFN38K HiBiT CMV-neo Flexi® Vector based on nucleotide sequence.

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CMV immediate-early enhancer/promoter	1–742
Chimeric intron	857–989
T7 RNA polymerase promoter (-17 to +3)	1033–1052
HiBiT	1065-1100
Sgfl site	1125-1132
Barnase coding region	1156-1491
Pmel site	1493-1500
SV40 late polyadenylation signal	1652–1873
SV40 enhancer and early promoter	1972–2390
SV40 enhancer	2045–2281 (Reverse)
SV40 Min Ori	2288-2353
EM7 bacterial promoter	2398-2464
Neo-Kan resistance	2478-3272
Synthetic polyadenylation signal sequence	3336-3384
Co/E1-derived plasmid origin of replication	3620-3656

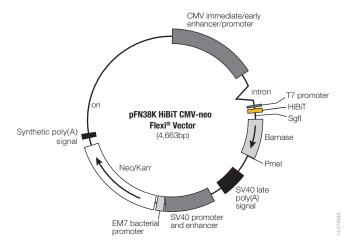


Figure 1. pFN38K HiBiT CMV-neo Flexi® Vector circle map and sequence reference points.

Related Products

Product	Size	Cat.#
Nano-Glo [®] HiBiT Lytic Detection System	10ml	N3030
	100ml	N3040
	10 × 100ml	N3050
Nano-Glo [®] HiBiT Extracellular Detection System	10ml	N2420
	100ml	N2421
	10 × 100ml	N2422
Nano-Glo® HiBiT Blotting System	100ml	N2410

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