Certificate of Analysis

pFN26A (BIND) *hRluc*-neo Flexi® Vector

Part No.	Size
E138A	20µg

Part# 9PIE138
6/09

Information on the use of this product can be found in the *Flexi® Vector Systems Technical Manual*, #TM254, available at: **www.promega.com/tbs**

Description: The pFN26A (BIND) *hRluc*-neo Flexi® Vector[a,b,c,d,e] (Cat.# E1380) is designed to functionally express a fusion protein comprised of a DNA-binding domain of the yeast GAL4 gene, a linker segment and an in-frame protein-coding sequence flanked by SgfI and PmeI sites at the 5´ and 3´ ends, respectively, under the control of the human cytomegalovirus (CMV) immediate early promoter. This vector can be used to test putative transcriptional activation domains for protein sequences of interest, such as the ligand binding domain of many nuclear receptors, when cotransfected with the pGL4.35[*luc2P*/9X*GAL4* UAS/Hygro] Vector (Cat.# E1370).

Concentration: 100ng/µl.

GenBank® Accession Number: GQ229578.

Storage Buffer: 10mM Tris-HCl, 1mM EDTA (pH 7.4 at 25°C).

Storage Conditions: See the Product Information Label for storage recommendations and expiration date.

Quality Control Assays

Functional Assays

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

Restriction Digestion: The functional purity of this vector DNA is verified by complete digestion with selected restriction enzymes at 37°C for 1 hour. Samples are examined by agarose gel electrophoresis, and cut and uncut vector DNA are compared with marker DNA.

Contaminant Assays

Contaminating Nucleic Acid Assay: RNA, single-stranded DNA and chromosomal DNA are not evident in a specified sample of this vector as determined by agarose gel electrophoresis.

Nuclease Assay: Following incubation of 1µg of this vector in Restriction Enzyme Buffer at 37°C for 16–24 hours, no evidence of nuclease activity is detected by agarose gel electrophoresis.

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

Signed by: J. Stevens

J. Stevens, Quality Assurance

[a]READ THIS FIRST BEFORE OPENING PRODUCT
For research use only. The terms of the limited license conveyed with the purchase of this product are as follows: Researchers may use this product in their own research and they may transfer derivatives to others for such research use provided that at the time of transfer a copy of this label license is given to the recipients and the recipients agree to be bound by the conditions of this label license. Researchers shall have no right to modify or otherwise create variations of the nucleotide sequence of the luciferase gene except that Researchers may: (1) clone heterologous DNA sequences at either or both ends of said luciferase gene so as to create fused gene sequences provided that the coding sequence of the resulting luciferase gene has no more than four deoxynucleotides missing at the affected terminus when compared to the intact luciferase gene sequence, and (2) insert and remove nucleic acid sequences in furtherance of splicing research predicated on the inactivation or reconstitution of the luminescent activity of the encoded luciferase. In addition, Researchers must do one of the following: (1) use luminescent assay reagents purchased from Promega Corporation for all determinations of luminescence activity resulting from the research use of this product and its derivatives; or (2) contact Promega to obtain a license for the use of the product and its derivatives. No other use or transfer of this product or its derivatives is authorized without the express written consent of Promega including, without limitation, Commercial Use. Commercial Use means any and all uses of this product and derivatives by a party for monetary or other consideration and may include but is not limited to use in: (1) product manufacture; and (2) to provide a service, information or data; and/or resale of the product or its derivatives, whether or not such product or derivatives are resold for use in research. With respect to such Commercial Use, or any diagnostic, therapeutic or prophylactic uses, please contact Promega for supply and licensing information. If the purchaser is not willing to accept the conditions of this limited use statement, Promega is willing to accept the return of the unopened product and provide the purchaser with a full refund. However, in the event the product is opened, then the purchaser agrees to be bound by the conditions of this limited use statement. The above license relates to Promega patents and/or patent applications on improvements to the luciferase gene.
[b]Licensed from University of Georgia Research Foundation, Inc., under U.S. Pat. Nos. 5,292,658, 5,418,155, Canadian Pat. No. 2,105,984 and related patents.
[c]The CMV promoter and its use are covered under U.S. Pat. Nos. 5,168,062 and 5,385,839 owned by the University of Iowa Research Foundation, Iowa City, Iowa, and licensed FOR RESEARCH USE ONLY. Commercial users must obtain a license to these patents directly from the University of Iowa Research Foundation.
[d]Australian Pat. No. 2001 285278 and patents pending.
[e]Patents pending.

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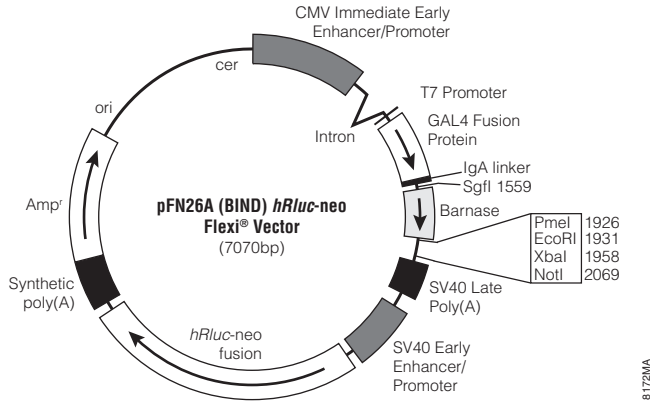
Part# 9PIE138
Printed in USA 6/09.

pFN26A (BIND) *hRluc*-neo Flexi® Vector Features List and Map:

CMV immediate early enhancer/promoter	1–742
Chimeric intron	857–989
T7 RNA polymerase promoter	1033–1052
GAL4 DNA binding domain fusion protein	1083–1520
IgA linker	1521–1553
Barnase	1585–1920
SV40 late poly(A) region	2081–2302
SV40 early enhancer/promoter	2401–2819
hRluc-neomycin fusion protein	2864–4639
Synthetic poly(A)/transcriptional pause region	4703–5021
Synthetic β-lactamase (Amp^r) coding region	5012–5872
*Col*E1-derived plasmid replication origin	6027–6063
Cer	6734–7019



pFN26A (BIND) *hRluc*-neo Flexi® Vector Map.
Sequence information is available at: **www.promega.com/vectors**

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