pGL4.73[*hRluc*/SV40] Vector:

Part No. E691A

Size 20µg

Instructions for use of this product can be found in the pGL4 Luciferase Reporter Vectors Technical Manual #TM259, available online at:

www.promega.com/resources/protocols/

Description: The pGL4.73[*hRluc/*SV40] Vector^(a-c) encodes the luciferase reporter gene *hRluc* (*Renilla reniformis*) and is designed for high expression and reduced anomalous transcription. The pGL4 Vectors are engineered with fewer consensus regulatory sequences and a synthetic gene, which has been codon optimized for mammalian expression.

The pGL4.73[hRluc/SV40] Vector contains the hRluc reporter gene and an SV40 early enhancer/promoter and can be used as an expression control or a co-reporter vector.

Concentration: 1µg/µl.

Storage Buffer: The pGL4.73[hRluc/SV40] Vector is supplied in 10mM Tris-HCI (pH 7.4), 1mM EDTA.

Storage Conditions: See the product information label for storage temperature recommendations. Avoid multiple freezethaw cycles and exposure to frequent temperature changes. These fluctuations can greatly alter product stability. See the expiration date on the product information label.

Usage Note: 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 pGL4.73[*hRluc*/SV40] Vector in standard restriction digest buffers at 37°C for 16–24 hours, no evidence of nuclease activity was detected by agarose gel electrophoresis.

Physical Purity: $A_{260}/A_{280} \ge 1.80$, $A_{260}/A_{250} \ge 1.05$ at pH 7.4.

Sequence: The pGL4.73[hRluc/SV40] Vector has been completely sequenced and is 100% identical to the published sequence, available at: www.promega.com/products/vectors/

By USE OF THIS PRODUCT, RESEARCHER AGREES TO BE BOUND BY THE TERMS OF THIS LIMITED USE LABEL LICENSE. If the researcher is not willing to accept the terms of this label license, and the product is unused, Promega will accept return of the unused product and provide the researcher with a full refund.

Researchers may use this product for research use only, no commercial use is allowed. 'Commercial use' means any and all uses of this product and derivatives by a party for money 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 to rits derivatives, whether or not such product or derivatives are resold for use in research. Researchers shall have no right to modify or otherwise create variations of the nucleotide sequence of the luciferase gene except that researchers may: (1) create fused gene sequences provided that the coding sequence of the intact luciferase gene except that researchers may: (1) create fused gene sequences provided that the coding sequence of the intact luciferase gene except that researchers may: (1) 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 compared to the intact luciferase gene sequence, and (2) insert and remove nucleic acid sequences in splicing research is product or derivatives is authorized without the prior express written consent of Promega. In addition, researchers must either: (1) use luminescent assay reagents purchased from Promega for all determinations of luminescence activity of this product and its derivatives to others for research use provided that at the time of transfer a copy of this label license is given to the recipients and recipients argree to be bound by the terms of this label license. With respect to any uses outside this label license, including any diagnostic, therapeutic or prophylactic uses, please contact Promega for supply and licensing information. PROMEGA MAKES NO REPRESENTATIONS OF WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLED. INCLUDING FOR MER-CHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH REGARDS TO THE PRODUCT. The terms of this label license shall be governed under the laws of the State of W

(b)Patent Pending.

Signed by:

^(c)U.S. Pat. No. 7,906,282 and European Pat. No. 1341808

Ten Wheeler

R. Wheeler, Quality Assurance

Part# 9PIE691 Revised 10/16



AF9PIE691 1016E691



Promega Corporation

| 1 |
|-----------------|
| USA |
| 608-274-4330 |
| 800-356-9526 |
| 608-277-2516 |
| www.promega.com |
| |

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

Promega manufactures products for a number of intended uses. Please refer to the product label for the intended use statements for specific products. Promega products contain chemicals which may be harmful if misused. Due care should be exercised with all Promega products to prevent direct human contact.

Echitad. Each Promega product is shipped with documentation stating specifications and other technical information. Promega products are warranted to meet or exceed the stated specifications. Promega's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. Promega makes no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WAR-RANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MER-CHANTABILITY, CONDITION, OR ANY OTHER MAT-TER WITH RESPECT TO PROMEGA PRODUCTS. In no event shall Promega be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tot (including negligence) or strict liability arising in connection with the sale or the failure of Promega products to perform in accordance with the stated specificators.

© 2004, 2005, 2008, 2009, 2012, 2013, 2016 Promega Corporation. All Rights Reserved. Products may be covered by pending or issued patents or may have certain limitations. Please visit our Web site for more information.

All specifications are subject to change without prior notice.

Product claims are subject to change. Please con tact Promega Technical Services or access the Promega online catalog for the most up-to-date information on Promega products.

Part# 9PIE691 Printed in USA. Revised 10/16.



pGL4.73 [hRluc/SV40] Vector Features and Circle Map

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

| SV40 early enhancer/promoter | 51-469 |
|--|-----------|
| hRluc reporter gene | 499-1434 |
| SV40 late poly(A) signal | 1466-1687 |
| Reporter Vector primer 4 binding region | 1755-1774 |
| Co/EI-derived plasmid replication origin | 2012 |
| Synthetic β -lactamase (Amp ^r) coding region | 2803-3663 |
| Synthetic poly(A) signal/transcriptional pause site | 3768-3921 |
| Reporter Vector primer 3 binding region | 3870-3889 |
| | |

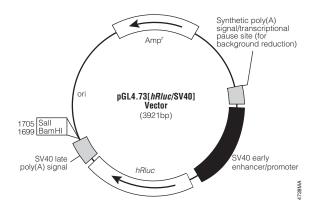


Figure 1. pGL4.73 [*hRluc*/SV40] Vector circle map and sequence reference points.

Note: Maps of all the pGL4 Vectors are available at: www.promega.com/products/vectors/

Part# 9PIE691 Printed in USA. Revised 10/16.