Product Contents

pGL4.11[*luc2P*] Vector:

Part No.	Size
E666A	20µg

Part# 9PIE666
Revised 2/09

Instructions for use of this product can be found in the pGL4 Luciferase Reporter Vectors Technical Manual #TM259, available online at: **www.promega.com/tbs**

Description: The pGL4.11[*luc2P*] Vector[a–d] encodes the luciferase reporter gene *luc2P* (*Photinus pyralis*) 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 pGL4.11[*luc2P*] Vector is a basic vector with no promoter. However, it contains a multiple cloning region to allow cloning of a promoter of choice. The *luc2P* reporter gene contains hPEST, a protein destabilization sequence. The protein encoded by *luc2P* responds more quickly and with greater magnitude to changes in transcriptional activity than the *luc2* gene, its more stable counterpart.

Concentration: 1µg/µl.

GenBank® Accession Number: AY738223.

Storage Buffer: The pGL4.11[*luc2P*] Vector is supplied in 10mM Tris-HCl (pH 7.4), 1mM EDTA.

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

Usage Notes:

1. For easy transfer from one pGL4 Vector to another, the multiple cloning region is consistent throughout the pGL4 Vector series. For easy transfer between pGL3 Vectors and pGL4 Vectors, many of the restriction enzyme sites present in the pGL3 Vectors are also present in the pGL4 Vectors.
2. Concentration gradients may form in frozen products and should be dispersed upon thawing. Mix well prior to use.

Promega Corporation

2800 Woods Hollow Road	
Madison, WI 53711-5399	USA
Telephone	608-274-4330
Toll Free	800-356-9526
Fax	608-277-2516
Internet	www.promega.com

Quality Control Assays

Nuclease Assay: Following incubation of 1µg of pGL4.11[*luc2P*] 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} ≥1.80, A_{260}/A_{250} ≥1.05 at pH 7.4.

Sequence: The pGL4.11[*luc2P*] Vector has been completely sequenced and has 100% identity with the published sequence, available at: **www.promega.com/vectors/**

[a]READ THIS FIRST BEFORE OPENING PRODUCT
The sale of this product and its use by the purchaser are subject to the terms of a limited use label license, the full text of which is shipped with this product and also available at: **www.promega.com\LULL**. That text must be read by the purchaser prior to opening this product to determine whether the purchaser agrees that all use of the product shall be in accordance with the license terms. If the purchaser is not willing to accept the terms of the limited use label license, Promega is willing to accept the return of the unopened product and provide the purchaser with a full refund. However, if the product is opened for any reason, then the purchaser agrees to be bound by the terms of the limited use label license.

[b]Australian Pat. No. 2001 285278 and other patents pending.

[c]Patents Pending.

[d]The method of recombinant expression of *Coleoptera* luciferase is covered by U.S. Pat. Nos. 5,583,024, 5,674,713 and 5,700,673. A license (from Promega for research reagent products and from The Regents of the University of California for all other fields) is needed for any commercial sale of nucleic acid contained within or derived from this product.

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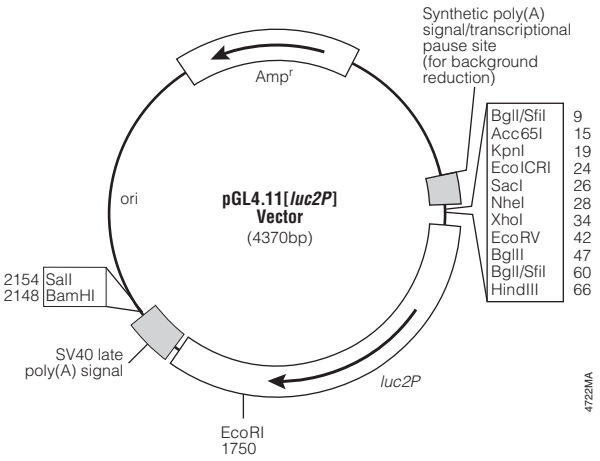
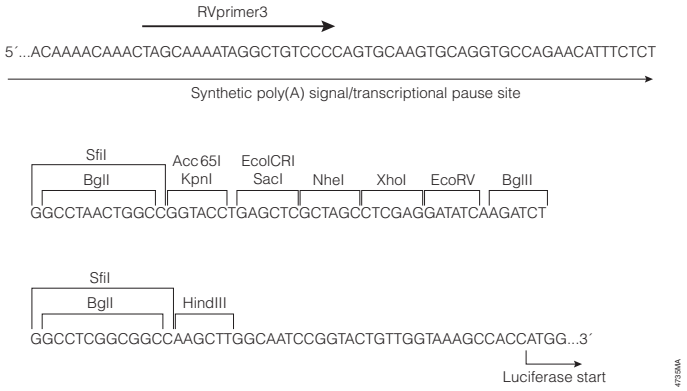
Features List and Map for the pGL4.11[*luc2P*] Vector

Multiple cloning region	1–70
luc2 reporter gene (synthetic firefly luciferase; includes hPEST)	100-1875
SV40 late poly(A) region	1915–2136
Reporter Vector primer 4 (RVprimer4) binding region	2204–2223
*Col*E1-derived plasmid replication origin	2461
Synthetic β-lactamase (Amp^r) coding region	3252–4112
Synthetic poly(A) signal/transcriptional pause site	4217–4370
Reporter Vector primer 3 (RVprimer3) binding region	4319–4338





Multiple cloning region of the pGL4.11[*luc2P*] Vector.

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