Certificate of Analysis

pGL4.25[*luc2CP*/minP] Vector:

Part No.	Size
E843A	20µg

Part# 9PIE843
Revised 10/16

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

AF9PIE843 1016E843

Description: The pGL4.25[*luc2CP*/minP] Vector[a–d] encodes the luciferase reporter gene *luc2CP* and is designed for high expression and reduced anomalous transcription. The vector contains a multiple cloning region for insertion of a response element of interest upstream of a minimal promoter and the *luc2CP* gene. *luc2CP* is a synthetically derived luciferase sequence with humanized codon optimization. The *luc2CP* gene contains hCL1 and hPEST, both of which are protein destabilization sequences. The protein encoded by *luc2CP* responds more quickly than the protein encoded by the *luc2* gene upon induction. The vector backbone contains an ampicillin resistance gene to allow for selection in *E. coli*.

Concentration: 1µg/µl.

GenBank® Accession Number: DQ904457.

Storage Buffer: The pGL4.25[*luc2CP*/minP] 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 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 the vector in restriction digest buffer B at 37°C for 16 hours, no evidence of nuclease activity is detected by agarose gel electrophoresis.

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

Sequence: The pGL4.25[*luc2CP*/minP] Vector has been completely sequenced and has 100% identity with the published sequence, available at: **www.promega.com/vectors**

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[b]U.S. Pat. No. 5,670,356.

[c]Patent Pending.

[d]U.S. Pat. No. 8,008,006 and European Pat. No. 1341808.

Signed by:

R. Wheeler, Quality Assurance

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pGL4.25[*luc2CP*/minP] Vector Features List and Maps

Minimal promoter	78–108
luc2CP reporter gene	141–1970
SV40 late poly(A) region	2007–2228
Reporter vector primer 4 (RVprimer4) binding region	2296–2315
ColE1-derived plasmid replication origin	2553
Synthetic β-lactamase (Amp^r) coding region	3344–4204
Synthetic poly(A) signal/transcriptional pause site	4309–4462
Reporter vector primer 3 (RVprimer3) binding region	4411–4430

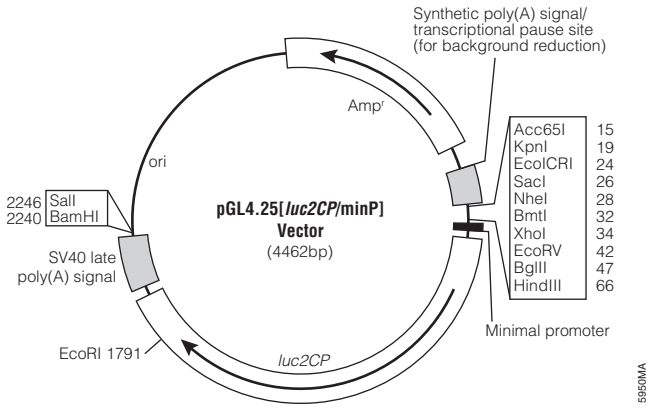

Figure 1. pGL4.25[*luc2CP*/minP] Vector map.

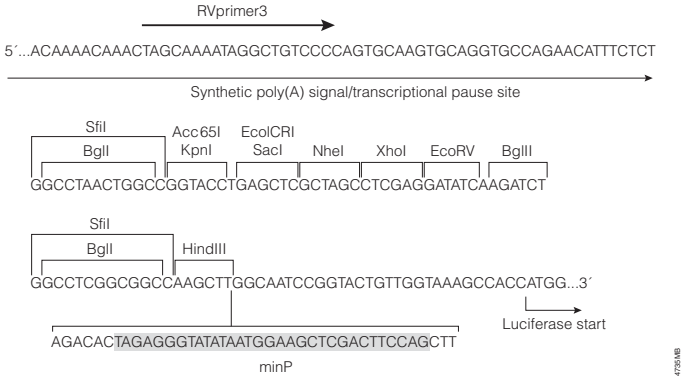

Figure 2. Multiple cloning region of the pGL4.25[*luc2CP*/minP] Vector.

Sequence information, vector maps and restriction enzyme tables for the pGL4 Vectors are available online at: **www.promega.com/vectors**
Further information on the use of pGL4 Vectors is available in Technical Manual #TM259, available online at: **www.promega.com/protocols**

Summary of Changes, 8/15 Revision

The following changes were made to the 8/15 version of this document:
Legal disclaimers were updated to remove expired information.

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