

Certificate of Analysis

pGL4.24[*luc2P*/minP] Vector:

Part No. Size
E842A 20µg

Part# 9PIE842
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

Description: The pGL4.24[*luc2P*/minP] Vector^(a-d) encodes the luciferase reporter gene *luc2P* (*Photinus pyralis*) 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 *luc2P* gene. *luc2P* is a synthetically derived luciferase sequence with humanized codon optimization. The *luc2P* gene also contains hPEST, a protein destabilization sequence. The protein encoded by *luc2P* responds more quickly than the protein encoded by the *luc2* gene upon induction. The vector backbone contains an ampicillin resistance gene to allow selection in *E. coli*.

Concentration: 1µg/µl.

GenBank® Accession Number: DQ904456.

Storage Buffer: The pGL4.24[*luc2P*/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 information label.

Usage Note: Concentration gradients may form in frozen products and should be dispersed upon thawing. Mix well prior to use.



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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 pGL4.24[*luc2P*/minP] Vector has been completely sequenced and has 100% identity with the published sequence, available at: www.promega.com/vectors

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Signed by:

R. Wheeler, Quality Assurance

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pGL4.24[*luc2P*/minP] Vector Features List and Maps:

Multiple cloning region	1-70
Minimal promoter	78-108
<i>luc2P</i> reporter gene	141-1916
SV40 late poly(A) region	1956-2177
Reporter Vector primer 4 (RVprimer4) binding region	2245-2264
<i>ColE1</i> -derived plasmid replication origin	2502
Synthetic β -lactamase (<i>Amp^r</i>) coding region	3293-4153
Synthetic poly(A) signal/transcriptional pause region	4258-4411
Reporter Vector primer 3 (RVprimer3) binding region	4360-4379

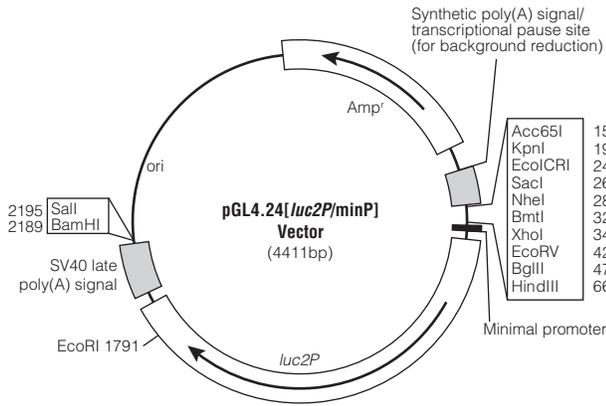


Figure 1. pGL4.24[*luc2P*/minP] Vector map.

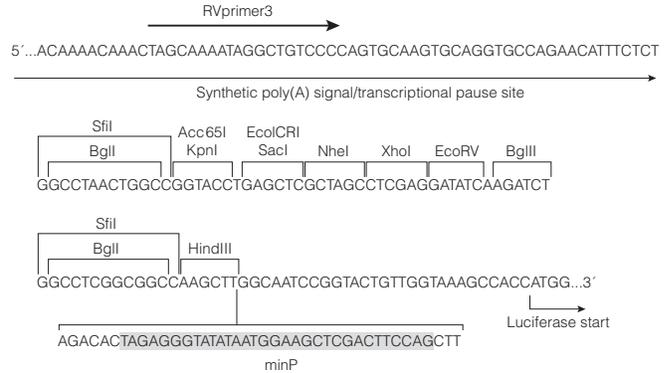


Figure 2. Multiple cloning region of the pGL4.24[*luc2P*/minP] Vector.

Sequence information, vector maps and restriction enzyme tables for the pGL4 Vectors are available online at: www.promega.com/vectors

For more information see the *pGL4 Luciferase Reporter Vectors Technical Manual* #TM259, 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.