

Certificate of Analysis

pGL4.26[*luc2*/minP/Hygro] Vector:

Part No. Size
E844A 20µg

Part# 9PIE844
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 pGL4.26[*luc2*/minP/Hygro] Vector^(a-d) encodes the luciferase reporter gene *luc2* (*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 *luc2* gene. *luc2* is a synthetically-derived luciferase sequence with humanized codon optimization. The vector backbone contains an ampicillin resistance gene to allow selection in *E. coli* and a mammalian selectable marker for hygromycin resistance.

See the *pGL4 Luciferase Reporter Vectors Technical Manual #TM259* for more information.

Concentration: 1µg/µl.

GenBank® Accession Number: DQ904458.

Storage Buffer: The pGL4.26[*luc2*/minP/Hygro] Vector is supplied in 10mM Tris-HCl (pH 7.4), 1mM EDTA.

Storage Conditions: See the product information label for storage 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.

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 pGL4.26[*luc2*/minP/Hygro] 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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pGL4.26[*luc2*/minP/Hygro] Vector Features List and Maps:

Multiple cloning region	1–70
Minimal promoter	78–108
<i>luc2</i> reporter gene	141–1793
SV40 late poly(A) region	1828–2049
SV40 early enhancer/promoter	2097–2515
Synthetic hygromycin (Hyg ^r) coding region	2540–3577
Synthetic poly(A) region	3601–3649
Reporter Vector primer 4 (RVprimer4) binding region	3716–3735
<i>Co/E1</i> -derived plasmid replication origin	3973
Synthetic β-lactamase (Amp ^r) coding region	4764–5624
Synthetic poly(A) signal/transcriptional pause region	5729–5882
Reporter Vector primer 3 (RVprimer3) binding region	5831–5850

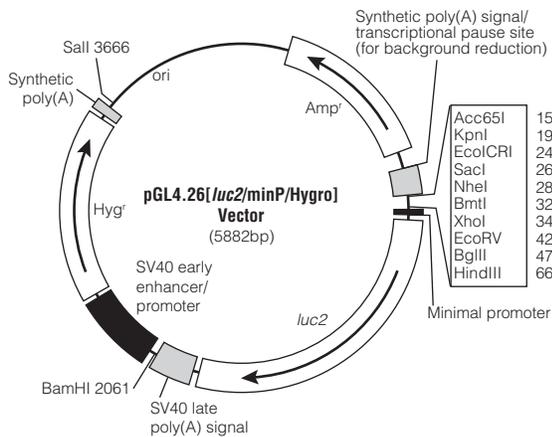


Figure 1. pGL4.26[*luc2*/minP/Hygro] Vector map.

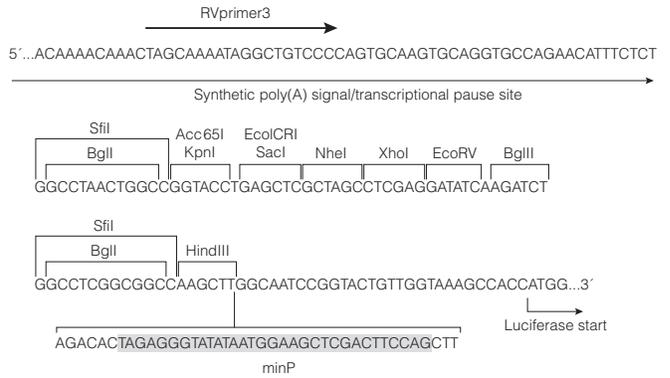


Figure 2. Multiple cloning region of the pGL4.26[*luc2*/minP/Hygro] Vector.

Sequence information 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.