Certificate of Analysis

pGL4.11[*luc2P*] Vector:

Part No.	Size
E666A	20µg

Part# 9PIE666
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 pGL4.11[*luc2P*] Vector[a,b,c] 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.

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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: $A_{260}/A_{280} \geq 1.80$, $A_{260}/A_{250} \geq 1.05$ 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**

Signed by:

R. Wheeler, Quality Assurance

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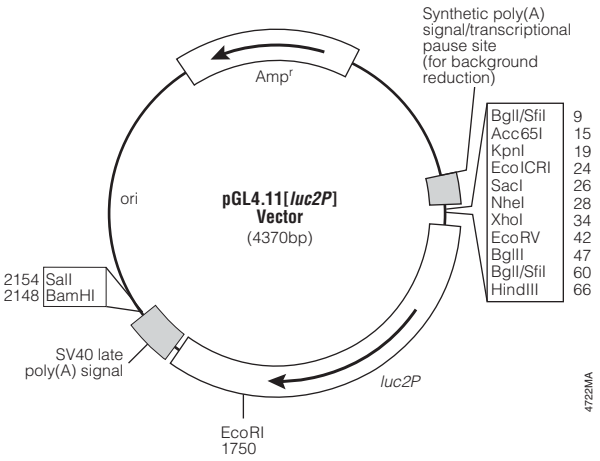
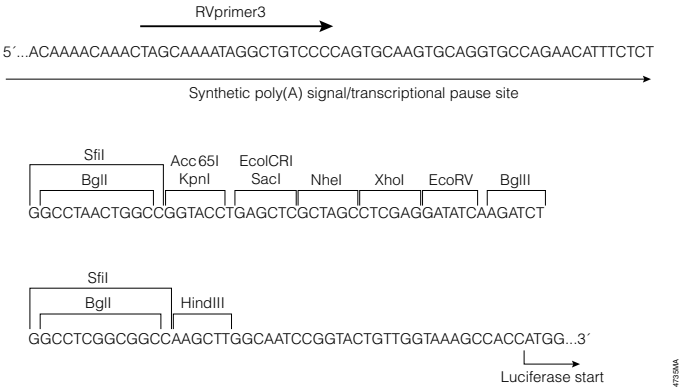
Promega

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

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

[c]Patents Pending.

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