Certificate of Analysis

pGL4.73[hRluc/SV40] Vector:

Size E691A 20µg



Instructions for use of this product can be found in the pGL4 Luciferase Reporter Vectors Technical Manual #TM259, available online at:

www.promega.com/resources/protocols/

Description: The pGL4.73[hRluc/SV40] Vector(a-c) encodes the luciferase reporter gene hRluc (Renilla reniformis) 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 pGL4.73[hRluc/SV40] Vector contains the hRluc reporter gene and an SV40 early enhancer/promoter and can be used as an expression control or a co-reporter vector.

Concentration: 1µg/µl

Storage Buffer: The pGL4.73[hRluc/SV40] 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 freezethaw 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 pGL4.73[hRluc/SV40] 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: $A_{260}/A_{280} \ge 1.80$, $A_{260}/A_{250} \ge 1.05$ at pH 7.4.

Sequence: The pGL4.73[hRluc/SV40] Vector has been completely sequenced and is 100% identical to the published sequence, available at: www.promega.com/products/vectors/

Signed by:

J. Stevens, Quality Assurance

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(b)Patent Pending

(c)U.S. Pat. No. 7.906.282 and European Pat. No. 1341808

Part# 9PIE691 Revised 10/13





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pGL4.73 [hRluc/SV40] Vector Features and Circle Map

The following features are present in the vector based on nucleotide sequence.

SV40 early enhancer/promoter	51-469
hRluc reporter gene	499-1434
SV40 late poly(A) signal	1466-1687
Reporter Vector primer 4 binding region	1755-1774
Co/El-derived plasmid replication origin	2012
Synthetic β-lactamase (Ampr) coding region	2803-3663
Synthetic poly(A) signal/transcriptional pause site	3768-3921
Reporter Vector primer 3 binding region	3870-3889

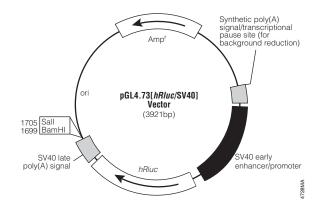


Figure 1. pGL4.73 [hRluc/SV40] Vector circle map and sequence reference points.

Note: Maps of all the pGL4 Vectors are available at: www.promega.com/products/vectors/