

Certificate of Analysis

pGL4.75[hRLuc/CMV] Vector:

Part No. Size
E693A 20µg



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

Description: The pGL4.75[hRLuc/CMV] 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 pGL4.75[hRLuc/CMV] Vector contains the *hRLuc* reporter gene and a CMV immediate-early enhancer/promoter and can be used as an expression control or a co-reporter vector.

Concentration: 1µg/µl.

Storage Buffer: The pGL4.75[hRLuc/CMV] 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: 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 pGL4.75[hRLuc/CMV] 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 pGL4.75[hRLuc/CMV] Vector has been completely sequenced and is 100% identical to the published sequence, available at: www.promega.com/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.

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pGL4.75 [*hRluc*/CMV] Vector Features and Circle Map

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

CMV immediate early enhancer/promoter	14–755
<i>hRluc</i> reporter gene	859–1794
SV40 late poly(A) signal	1826–2047
Reporter Vector primer 4 binding region	2115–2134
<i>ColEI</i> -derived plasmid replication origin	2372
Synthetic β -lactamase (<i>Amp^r</i>) coding region	3163–4023
Synthetic poly(A) signal/transcriptional pause site	4128–4281
Reporter Vector primer 3 binding region	4230–4249

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

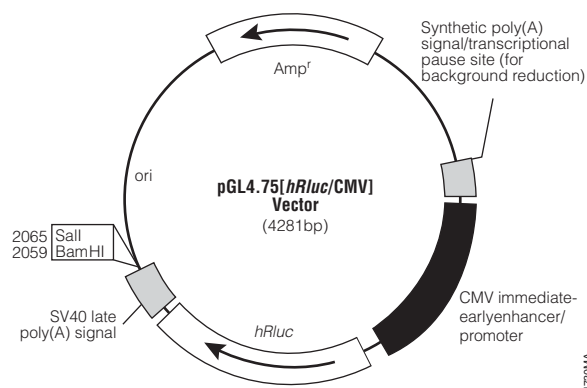


Figure 1. pGL4.75 [*hRluc*/CMV] Vector circle map and sequence reference points.