

Product Information

pVL1392 Expression Vector for Baculovirus

Product No. E 8647
Store at -20 °C

Product Summary:

Package Size: 20 µg
Lyophilized in
10 mM Tris-HCl and
1 mM EDTA, pH 7.5.
Plasmid Size: 9.6 kb
Cloning Sites: Bgl II, Pst I, Not I, Xma III,
EcoR I, Xba I, Sma I and BamH I.
Antibiotic Resistance: Ampicillin

Description:

The plasmid pVL1392 is a baculovirus expression vector for the expression of genes with an ATG (N-formyl methionine) translation initiation codon. pVL1392 is a baculovirus transfer vector which contains recombination sequences that are homologous to sequences in the baculovirus genome.

Translation initiation sequences must be provided by the inserted cDNA. The vector is a nonfusion vector comprised of an EcoR I fragment containing the AcNPV polyhedrin gene cloned into the EcoR I/Hind III sites of pUC18. A multiple cloning site (MCS) was cloned into pUC19 also for a diversity of cloning sites.

pVL1392 is in an opposite orientation of pVL1393 for simplified subcloning.

Features

The baculovirus expression vectors are used with baculovirus expression systems such as Sf-9, Sf-21 and High Five insect cells.

The baculovirus expression vectors are also capable of growth and maintenance in *E. coli* with a ColE1 origin of replication from pUC19 plasmid.

The baculovirus expression system is well validated for high-level expression of recombinant proteins.¹

pVL1392 Expression Vector Multiple Cloning Site Map

Bgl II
Pst I
Not I
Xma III
EcoR I
Xba I
Sma I
BamH I

Recombination Sequence: bases 1-3,997 Restriction endonuclease digestion sites are present in the recombination sequence for Xho I Apa I and Sac II.

Polyhedrin promoter: bases 3,998-4,092

Polyhedrin gene: bases 4,093-4,738

Multiple Cloning Site: bases 4,128-4,179

Recombination Sequence: bases 4,738-7,002

ColE1 origin: bases 8,029-7,356

Ampicillin resistance gene: bases 8,965-8,177

Reconstitution:

Reconstitute in 0.2 µm filtered water.

References:

O'Reilly, D., et al., Baculovirus Expression Vectors: A Laboratory Manual, W. H. Freeman & Co., New York 1992.

Related Products

G9771 Grace's Insect Medium
COMP-T Competent Cell Preparation Kit