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ProductInformation

pVL1393 ExpressionVector for Baculovirus

Product No. E 8772
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: BamH I, Sma I, Xba I, EcoR I, Not I, Xma III, Pst I and Bgl II.
Antibiotic Resistance: Ampicillin

Description:
The plasmid pVL1393 is a baculovirus expression vector for the expression of genes with an ATG (N-formyl methionine) translation initiation codon. pVL1393 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.

pVL1393 is in an opposite orientation of pVL1392 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]

pVL1393 Expression Vector
Multiple Cloning Site Map

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

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:
1. 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