

Technical Data Sheet

pVL1392 & pVL1393 Baculovirus Transfer Vector Set

Product Information

Material Number:	554745
Component:	51-21485P
Description:	pVL1392 Baculovirus Transfer Vector
Size:	5 µg in 50 µl (1 ea)
Storage Buffer:	10 mM Tris-HCl, pH 7.5; 1 mM EDTA
Component:	51-21486P
Description:	pVL1393 Baculovirus Transfer Vector
Size:	5 µg in 50 µl (1 ea)
Storage Buffer:	10 mM Tris-HCl, pH 7.5; 1 mM EDTA

Description

The pVL1392 and pVL1393 baculovirus transfer vectors contain the complete polyhedrin gene locus of the *Autographa californica* nuclear polyhedrosis virus (AcNPV) cloned into the pUC8 vector, but lack part of the polyhedrin gene coding region. A multiple cloning site (MCS) region has been inserted 37 nucleotides downstream of the ATG polyhedrin start codon, which has been changed into an ATT. The difference between pVL1392 and pVL1393 is: the MCS regions are in opposite orientation to one another. The MCS region of pVL1392 from 5' to 3' reads: **BglI I, Pst I, Not I, Eag I, EcoR I, Xba I, Sma I and BamH I**. The MCS of pVL1393 has the reverse reading. The insert of choice must provide its own ATG start signal at the 5' end of the gene. The distance between the cloning site and the ATG start of the gene should not exceed 100 nucleotides, otherwise the protein expression will be poor. These vectors should be used for high-level expression of non-fused foreign proteins under the strong polyhedrin promoter of AcNPV. Both vectors can be used in conjunction with the BD BaculoGold™ Transfection Kit (Cat. No. 560129) to achieve nearly 100% recombination efficiencies.

Preparation and Storage

Store undiluted at -20°C.

Both plasmid DNA have been prepared using silicon-bead technology and have been dissolved in TE buffer (10 mM Tris-HCl pH 7.5; 1 mM EDTA).

Application Notes

Application

Baculovirus	Routinely Tested
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Recommended Assay Procedure:

Insert your gene of interest into a site of choice in the MCS region of either plasmid to express it under polyhedrin promoter control in the baculovirus system. Insert must contain an ATG translation initiation sequence. For further cloning information, refer to the attached restriction maps of both plasmids. Transform and amplify the plasmid DNA in *E. coli* strains (DH5- α , HB101 or any other suitable strain) under ampicillin selection and purify using standard protocols. Perform a co-transfection of the purified, recombinant plasmid and linearized baculovirus DNA (BD BaculoGold™ viral DNA, Cat. No. 554739, recommended) using a susceptible insect cell line (e.g., *Sf9* or *Sf21*) and identify recombinant viruses expressing your protein. For detailed protocols refer to the *Baculovirus Expression Vector System Manual, 6th edition* at <http://www.bdbiosciences.com/pdfs/manuals/98-6088-1F.pdf>. Sequence information for vectors can be found at http://www.bdbiosciences.com/support/vector_sequences/

Individual vectors are not sold separately.

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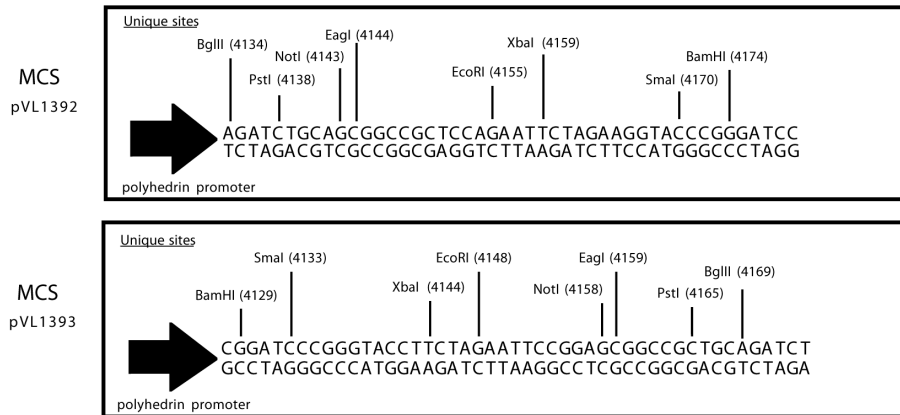
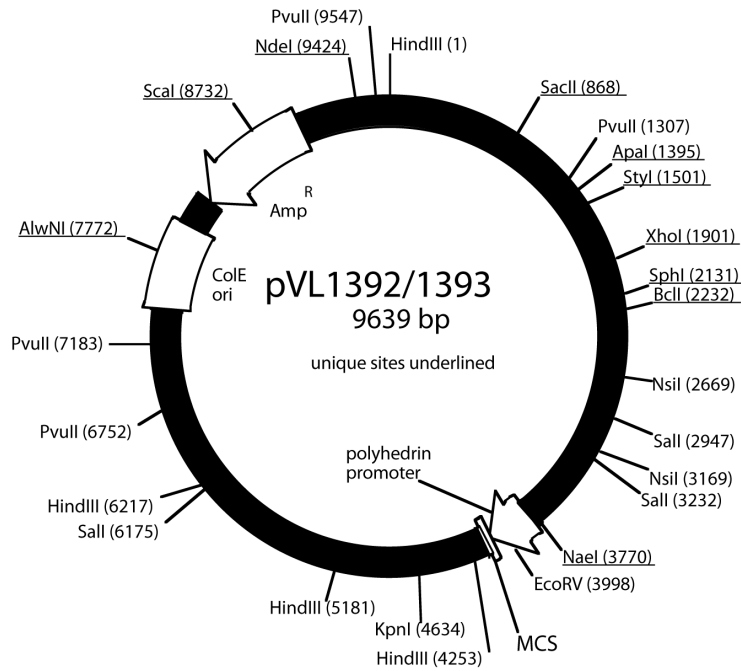
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Suggested Companion Products

Catalog Number	Name	Size	Clone
560129	Transfection Kit	5 transfections	(none)
554739	Linearized Baculovirus DNA	5 transfections	(none)
554763	Sf9 Insect Cells (Live) in TNM-FH	>10 ⁷ cells	(none)
554762	Sf9 Insect Cells (Frozen)	>10 ⁷ cells	(none)

Product Notices

- Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

Sambrook J, Fritsch E, Maniatis T. *Molecular Cloning, 2nd Edition*. Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press; 1989. (Methodology)