

Technical Data Sheet

pAcMP2, pAcMP3 Baculovirus Transfer Vector

Product Information

Material Number:	554750
Component:	51-21210P
Description:	pAcMP2 Baculovirus Transfer Vector
Size:	5 µg in 50 µl (1 ea)
Component:	51-21211P
Description:	pAcMP3 Baculovirus Transfer Vector
Size:	5 µg in 50 µl (1 ea)

Description

This vector is a derivative of pAcMP1, an *Autographa californica* (AcNPV) polyhedrin locus-based vector that contains a copy of the AcNPV basic protein promoter instead of the polyhedrin gene promoter. It will recombine with the polyhedrin locus of the AcNPV virus since the vector contains residual out-of-frame polyhedrin gene coding sequences and their flanking parts. Foreign sequences can be inserted at the **multiple cloning site** that includes **BamH I, Xba I, EcoR I, Not I, EagI, Pst I and Bgl II** as single cloning sites (from 5' to 3'). This vector permits foreign gene expression in the course of the late phase of virus infection, i.e., prior to the very late phase when polyhedrin and p10 promoter-driven genes are expressed. While expression levels are reduced in comparison to polyhedrin and p10 promoter-driven expression, there is evidence that post-translational modifications (e.g. glycosylation and phosphorylation) are more readily accomplished in this period. This transfer vector can be used in conjunction with BD BaculoGold™ Linearized Baculovirus DNA (Cat. No. 554739).

Preparation and Storage

Store undiluted at -20°C.

The plasmid DNA has been purified using silica-based beads and has 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 the gene of interest into one of the multiple cloning sites of the plasmid. Transform the plasmid DNA into *E. coli* strains (DH5α, HB101 or any other suitable strain) under ampicillin selection. Perform a co-transfection of the recombinant plasmid and linearized baculovirus DNA (BD BaculoGold™ DNA, Cat. No. 554739) using a susceptible insect cell line (e.g., Sf9 or Sf21) and identify recombinant viruses expressing your protein. For detailed procedures refer to our online protocols or to the Baculovirus Expression Vector System Manual, 6th edition on our web site at <http://www.bdbiosciences.com/pdfs/manuals/98-6088-1F.pdf>.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554739	Linearized Baculovirus DNA	5 transfections	(none)
560129	Transfection Kit	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/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.(Biology)
 Belyaev AS, Roy P. Development of baculovirus triple and quadruple expression vectors: co-expression of three or four bluetongue virus proteins and the synthesis of bluetongue virus-like particles in insect cells. *Nucleic Acids Res.* 1993; 21(5):1219-1223.(Biology)

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Hill-Perkins MS, Possee RD. A baculovirus expression vector derived from the basic protein promoter of *Autographa californica* nuclear polyhedrosis virus. *J Gen Virol.* 1990; 71(4):971-976.(Biology)