



BACULOVIRUS EXPRESSION VECTORS

A
LABORATORY
MANUAL

DAVID R. O'REILLY LOIS K. MILLER VERNE A. LUCKOW

Baculovirus Expression Vectors A Laboratory Manual

**Just M. Vlak, Cornelis D. de
Gooijer, Johannes Tramper, Herbert G.
Miltenburger**



Baculovirus Expression Vectors A Laboratory Manual:

Baculovirus Expression Vectors David R. O'Reilly, Lois K. Miller, Verne A. Luckow, 1994 Baculoviruses have proven to be the most powerful and versatile eukaryotic expression vectors available This unique laboratory manual is designed to help both beginning and experienced researchers construct and use baculovirus vector systems It simplifies selection of the most appropriate baculovirus vector design for a given problem then describes each step of the implementation process from vector construction to large scale protein production The book provides an understanding of how the vectors work a biological overview of cells viruses plasmids and promoters guidelines for choosing optimum vectors protocols for growing insect cells and recombinant viruses methods of analyzing protein products and scaling up protein production techniques for producing proteins in insect larvae and easy to use maps charting available expression vectors This comprehensive approach has many benefits for researchers and students alike It allows them to understand how and why the vector system works and offers a rapid comparison of options for choosing the right virus plasmid or promoter for vector design and construction with a minimum amount of lost time The manual is an invaluable resource for every individual engaged in the production of proteins for any purpose

Baculovirus Expression Protocols Christopher D. Richardson, 2008-02-02 Baculovirus Expression Protocols offers both industrial and university based researchers a comprehensive compilation of the latest baculovirus techniques along with step by step instructions and time saving techniques The contributors leading authorities in the field present the assorted expression plasmids currently in use guide the reader through the process of generating and selecting recombinant virus and describe specific examples of recombinant protein production and purification The emphasis is on alternative and simpler screening techniques for the selection of recombinant baculovirus The book also surveys the various insect cell lines currently compatible with the baculovirus system Highlights include production of recombinant virus using linearized DNA and vectors that contain a b galactosidase indicator and a complete list of expression vectors currently available Detailed descriptions for the scale up of protein production using spinner flasks bioreactors and insect larvae are also included Baculovirus Expression Protocols offers both industrial and university based researchers an outstanding collection of reproducible step by step laboratory protocols It will immediately become indispensable for anyone working with baculoviruses and their application in the expression of recombinant proteins in insect cells

The Baculovirus Expression System Linda King, 2012-12-06 The decision to write a book about the practical aspects of the baculovirus expression system stems from the numerous phone calls for help we have had and from the many visitors to our laboratories requiring assistance to find the elusive polyhedrin negative virus containing their favourite gene We have also organized two expression system workshops and from the manuals we wrote for these it seemed a logical progression to extend them into book form We appreciate that those who are old hands at the baculovirus expression system may have differing views on some of our procedures but the methods in this book are presented in the light of our own experiences in the laboratory and

from our practical workshops and we hope that the book will be especially useful to those new to the system. The first three chapters give the background information to the baculovirus expression system and includes advice on how to choose the right transfer vector and discusses the various methods that are available to select recombinant viruses. The practical chapters concentrate on those aspects which are novel to the baculovirus system: insect cell culture, virus amplification and titration etc. and in general leave the standard molecular biological techniques to the other excellent laboratory manuals that are available. However for completeness sake and to avoid constant reference to other manuals we have included brief details of some standard techniques where they are integral to the success of the baculovirus protocols. *NMDA Receptor*

Protocols Min Li, 2008-02-03 Min Li and a panel of hands on experimentalists detail state of the art molecular techniques for studying NMDA ligand gated ion channels and developing assays for nontherapeutic lead selection. The topics range from cDNA cloning to in vitro and in vivo investigation of the channel complex in the mammalian brain. Additional topics include the biochemical analysis of the channel protein and the construction of various heterologous systems for both basic research and high throughput screens HTS for pharmaceutical chemicals. Although the focus is on NMDA receptors the methods are applicable to other ligand gated ion channels and with some modification may be extended to related membrane signaling receptors. *NMDA Receptor Protocols* offers today's scientists powerful methods for basic research on NMDA receptor structure and function as well as enormous opportunities for clinical investigation toward the development of novel bioactive compounds. *Short Views on Insect Genomics and Proteomics* Chandrasekar Raman, Marian R. Goldsmith, Tolulope A.

Agunbiade, 2015-12-10 Entomology is a super science embracing interdisciplinary approaches in genomics, proteomics and interdependent fields of biochemistry, physiology, molecular entomology and biotechnology. An urgent need to manage available resources for the benefit of the planet and humankind has led to remarkable progress since publication of the fruit fly genome in 2000. *Short Views on Insect Genomics and Proteomics* presents multiple perspectives of recognized experts from around the world in genomics, bioinformatics, molecular biology, biochemistry, physiology and immunology, emphasizing fast moving areas of current research on insects and other arthropods. Concise accessible topical reviews include body louse and white fly genome projects, aphid phenotypic plasticity, insect regulatory genomics, the complex tick salivome, protein expression systems, therapeutic potential of insect antimicrobial peptides, nanoparticle insecticides and novel uses for recombinant and synthetic spider silks. **Gene Delivery to Mammalian Cells** William C. Heiser, 2008-02-02

The efficiency of delivering DNA into mammalian cells has increased tremendously since DEAE dextran was first shown to be capable of enhancing transfer of RNA into mammalian cells in culture. Not only have other chemical methods been developed and refined but also very efficient physical and viral delivery methods have been established. The technique of introducing DNA into cells has developed from transfecting tissue culture cells to delivering DNA to specific cell types and organs in vivo. Moreover two important areas of biology: assessment of gene function and gene therapy require successful DNA delivery to

cells driving the practical need to increase the efficiency and efficacy of gene transfer both in vitro and in vivo TM These two volumes of the Methods in Molecular Biology series Gene Delivery to Mammalian Cells are designed as a compendium of those techniques that have proven most useful in the expanding field of gene transfer in mammalian cells It is intended that these volumes will provide a thorough background on chemical physical and viral methods of gene delivery a synopsis of the myriad techniques currently available to introduce genes into mammalian cells as well as a practical guide on how to accomplish this It is my expectation that it will be useful to the novice in the field as well as to the scientist with expertise in gene delivery

Baculovirus Manon M.J. Cox, 2024-07-01 This detailed volume provides up to date guidance on techniques used to work with baculoviruses and insect cells The book provides basic methods to create recombinant baculoviruses to improve productivity to produce a variety of products to purify products to quantify baculovirus stocks or to quantify product produced and it concludes with alternative uses of either baculovirus or insect cells as tools Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and comprehensive *Baculovirus Methods and Protocols* serves as an ideal guide for researchers looking to overcome some of the limitations associated with the early baculoviral vectors and cell lines

Gene and Cell Therapy Nancy Smyth Templeton, 2008-10-06 Since the publication of the second edition of this book in 2004 gene therapy and cell therapy clinical trials have yielded some remarkable successes and some disappointing failures Now in its third edition *Gene and Cell Therapy Therapeutic Mechanisms and Strategies* assembles many of the new technical advances in gene delivery clinical applications and new approaches to the regulation and modification of gene expression New Topics Covered in this Edition *Gene and Cell Therapies for Diabetes and Cardiovascular Diseases Clinical Trials Human Embryonic Stem Cells Tissue Engineering Combined with Cell Therapies Novel Polymers Relevant Nanotechnologies SiRNA Therapeutic Strategies Dendrimer Technologies* Comprised of contributions from international experts this book begins with a discussion of delivery systems and therapeutic strategies exploring retroviral vectors and adenovirus vectors as well as other therapeutic strategies The middle section focuses on gene expression and detection followed by an examination of various therapeutic strategies for individual diseases including hematopoietic disorders cardiovascular conditions cancer diabetes cystic fibrosis neurological disorders and childhood onset blindness The final section discusses recent clinical trials and regulatory issues surrounding the new technology This compendium is assembled by noted molecular biologist and biochemist Nancy Smyth Templeton Baylor College of Medicine and several other institutions have used Dr Templeton's non viral therapeutics in clinical trials for the treatment of lung breast head and neck and pancreatic cancers as well as Hepatitis B and C She continues to work at the forefront of research in gene and cell therapies Her contributions as well as those contained in this volume are sure to advance the state of the art of these revolutionary life saving technologies

Membrane Protein Crystallization

,2009-05-29 This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization beginning with a review of past successes and general trends then further discussing challenges of membranes protein crystallization cell free production of membrane proteins and novel lipids for membrane protein crystallization This publication also includes tools to enhance membrane protein crystallization technique advancements and crystallization strategies used for photosystem I and its complexes establishing Membrane Protein Crystallization as a needed practical reference for researchers *PCR Cloning Protocols* Bing-Yuan Chen,Harry W. Janes,2008-02-05 PCR Cloning Protocols Second Edition updates and expands Bruce White s best selling PCR Cloning Protocols 1997 with the newest procedures for DNA cloning and mutagenesis Here the researcher will find readily reproducible methods for all the major aspects of PCR use including PCR optimization computer programs for PCR primer design and analysis and novel variations for cloning genes of special characteristics or origin with emphasis on long distance PCR and GC rich template amplification Also included are both conventional and novel enzyme free and restriction site free procedures to clone PCR products into a range of vectors as well as state of the art protocols to facilitate DNA mutagenesis and recombination and to clone the challenging uncharacterized DNA flanking a known DNA fragment **G Protein Pathways** Ravi Iyengar,John D. Hildebrandt,2002 G Protein Pathways is the first of three volumes examining the nature of heterotrimeric G proteins The text takes an integrated approach to studying common experimental questions at many different levels related to G proteins Methods related to G proteins using molecular modeling systems biology protein engineering protein biochemistry cell biology and physiology are all accessible in the same volume The critically acclaimed laboratory standard for more than forty years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Insect Viruses* ,2006-09-22 Baculoviruses are perhaps unique among viruses in the breadth of their biotechnological applications these insect specific viruses are used not only for insect pest management purposes but also as laboratory research tools for production of recombinant proteins and for protein display and as potential vectors for human gene therapy In addition to highlighting recent advances this volume provides a comprehensive review of the biotechnological applications of these and other insect viruses in both the academic and private sectors **Recombinant DNA Principles and Methodologies** James Greene,2021-12-16 This comprehensive yet balanced work emphasizes the principles and rationale underlying recombinant DNA methodology while furnishing a general understanding of the experimental protocols suggesting flexible approaches to resolving particular molecular necessities that are easily adaptable to readers specific applications Features summary tables presenting at a glance information on practices of recombinant DNA methodologies Recombinant DNA Principles and Methodologies discusses basic and advanced topics requisite to the employment of recombinant DNA technology such as

plasmid biology nucleic acid biochemistry restriction enzymes cloning strategies gel electrophoresis southern and northern blotting preparation of probes phage lambda biology cosmids and genome analysis cloned gene expression polymerase chain reaction conventional and automated DNA sequencing site directed mutagenesis and more Elucidating the material with over 2250 edifying references equations drawings and photographs this state of the art resource is a valuable hands on guide for molecular and cell biologists biochemists bioprocess technologists applied and industrial microbiologists virologists geneticists chemical engineers and upper level undergraduate and graduate students in these disciplines

Structural Genomics on Membrane Proteins Kenneth H. Lundstrom, 2006-02-23 While the genomic revolution has quickly led to the deposit of more than 30 000 structures in the protein data bank PDB less than one percent of those contributions represent membrane proteins despite the fact that membrane proteins constitute some 20 percent of all proteins This discrepancy becomes significantly troublesome when it is coupled

Insect Cell Cultures Just M. Vlak, Cornelis D. de Gooijer, Johannes Tramper, Herbert G. Miltenburger, 2006-04-11 A comprehensive reference work covering the key issues in insect cell cultures this text includes 30 review papers on such topics as cell lines development characterisation physiology cultivation and medium design viruses virus cell interactions replication recombinant construction infection kinetics post translational modification and passage effects engineering shear bioreactors including perfusion immobilisation scale up and modelling downstream processing applications and economics and regulatory aspects This text should be useful for cell biologists biochemists molecular biologists virologists immunologists and other basic and applied disciplines related to cell culture engineering both academic and industrial

Steroid Receptor Methods Benjamin A. Lieberman, 2001-08-10 A distinguished team of principal investigators and their associates describe in step by step detail a cross section of the latest research techniques available for studying the endocrine system As a basis for sophisticated biochemical analysis of receptor properties the contributors provide methods for the production and purification of a variety of receptors including progesterone glucocorticoid and androgen Other protocols allow the reader to experiment with DNA binding characteristics hormone binding assays and the use of combinatorial chemistry for drug discovery A series of novel methods utilizing the latest advances in immunochemistry yeast two hybrid screening and fluorescence are included for the detection and analysis of a variety of cellular proteins that influence steroid receptor effectiveness

ABC Transporters: Biochemical, Cellular, and Molecular Aspects Suresh V. Ambudkar, Michael M. Gottesman, 1998-07-31 The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike More than 285 volumes have been published all of them still in print and much of the material is relevant even today truly an essential publication for researchers in all fields of life sciences Prokaryotic ABC Transporters Eukaryotic ABC Transporters Nonmammalian ABC Transport Systems Mammalian P Glycoproteins Multidrug Resistance Associated

Protein Cystic Fibrosis Transmembrane Conductance Regulator Sulfonylurea Receptor Intracellular ABC Transporters

Isotope labeling in Biomolecular NMR Hanudatta S. Atreya, 2012-10-18 NMR spectroscopy has undergone a revolution in recent years with the advent of several new methods overcoming the problems of sensitivity and resolution Recent developments in biotechnology have made it easier and economical to introduce ^{13}C ^{15}N and ^2H into proteins and nucleic acids At the same time there has been an explosion in the number of NMR experiments that utilize such isotope labeled samples Thus a combination of isotopic labeling and multidimensional multinuclear NMR has opened up new avenues for structural studies of proteins nucleic acids and their complexes This book will focus on recent developments in isotope labeling methods for structural studies of small molecules peptides proteins and nucleic acids The aim of the book is to serve as a compendium of isotope labeling for the biomolecular NMR community providing comprehensive coverage of the existing methods and latest developments along with protocols and practical hints on the various experimental aspects The book will cover a wide range of topics in isotope labeling under one title including emerging areas of metabolonomics and solid state NMR

Biomanufacturing for Sustainable Production of Biomolecules Vijai Singh, Pau Loke Show, 2023-01-26 This book elucidates the sustainable production of commercially important biomolecules in medicines food and beverage processing through biological systems including microorganisms animal cells plant cells tissues enzymes and in vitro It discusses promising technologies for the manipulation of cells including genetic engineering synthetic biology genome editing and metabolic engineering The initial chapters of the book introduce topics on biomanufacturing circular economy strain design and improvement upstream and downstream processing The subsequent chapters cover artificial intelligence assisted production designer cell factories biosensors for monitoring biomolecules different cells factories biosynthetic pathways and genome editing approaches for scale up biomanufacturing Lastly the book discusses the opportunities and challenges of implementing biological systems for the production of biomolecules This book is a valuable source for students researchers scientists clinicians stakeholders policymakers and practitioners to understand biomanufacturing for the sustainable production of biomolecules

Vertebrate Phototransduction and the Visual Cycle, Part A, 2000-03-01 This volume and its companion Volume 316 include newly developed methods to study vertebrate phototransduction and the visual cycle Major topics covered include expression isolation and characterization of opsins proteins that interact with rhodopsin transducin and regulators of G protein signaling photoreceptor protein phosphatases phosphodiesterase and guanylylcyclase cyclis nucleolide gated channels Na Ca^{2+} K exchanges and ABCR transporter The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences

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