

Methods in Molecular Biology

Volume 39

BACULOVIRUS EXPRESSION PROTOCOLS

Edited by
Christopher D. Richardson



Baculovirus Expression Protocols

J Ma



Baculovirus Expression Protocols:

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 β 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

Baculovirus and Insect Cell Expression Protocols David W. Murhammer, 2018-04-15 The third edition of this volume expands upon the previous two editions with new and up to date methods and protocols Chapters include step by step procedures involved in quantifying cell growth baculovirus infection and cell metabolism methods to isolate new cell lines and develop your own serum free medium and routine maintenance and storage of insect cell lines and baculoviruses small and large scale recombinant protein production with the BEVS in both insect and mammalian cell culture and in insect larvae production and characterization of baculoviruses green fluorescent protein tubular reactors and RNAi and baculovirus insect cell system to study apoptosis and generating envelop modified baculovirus for gene delivery into mammalian cells Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and practical Baculovirus and Insect Cell Expression Protocols Third Edition aims to not only aid the user in successfully completing the tasks described but also stimulate the development of improved techniques and new applications of baculoviruses and insect cell culture

Baculovirus and Insect Cell Expression Protocols. Methods in Molecular Biology David W. Murhammer, 2007 Baculovirus Expression Protocols is a detailed guide for using the baculovirus expression vector system BEVS and or insect cells to produce recombinant proteins Procedures for the development and production of baculovirus insecticides at both laboratory and large scale are described in the kind of step by step format that the Methods in Molecular Biology series helped standardize This book is a one stop source for information on baculoviruses and includes sections on using modified baculoviruses to express genes in mammalian cells

using *Drosophila* cell lines isolating new cell lines and developing serum free medium Specific applications including using baculovirus and insect cell system to study apoptosis are also discussed This updated and expanded edition of *Baculovirus Expression Protocols* provides a perfect lab manual for biochemists molecular biologists biochemical engineers and others for using the BEVS or insect cell lines to produce recombinant proteins *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 *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 labora tories 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 *Methods in Molecular Biology: Baculovirus expression protocols* John M. Walker,1984 *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

Animal Cell Electroporation and Electrofusion Protocols Jac

A. Nickoloff,2008-02-03 The ability to introduce macromolecules into animal cells including DNA RNA proteins and other bioactive compounds has facilitated a broad range of biological studies from biochemistry and biophysics to molecular biology cell biology and whole animal studies Gene transfer technology in particular will continue to play an essential role in studies aimed at improving our understanding of the relationships between the gene structure and function and it has important practical applications in both biotechnology and biomedicine as evidenced by the current intense interest in gene therapy Although DNA and other macromolecules may be introduced into cells by a variety of methods including chemical treatments and microinjection electroporation has proven to be simpler to perform more efficient and effective with a wider variety of cell types than other techniques The early and broad success of electric field mediated DNA transfer soon prompted researchers to investigate electroporation for transferring other types of molecules into cells including RNA enzymes antibodies and analytic dyes Animal Cell Electroporation and Electrofusion Protocols begins with three chapters that describe the theoretical and practical aspects of electroporation including a review of the commercially available instrumentation These introductory chapters will be of particular interest to those new to electric field technologies and to those developing protocols for as yet untested species or cell types Nineteen chapters follow that present well tested protocols for electroporation of proteins and DNA into insect fish and mammalian cells

Handbook of Biogeneric

Therapeutic Proteins Sarfaraz K. Niazi,2002-08-15 More than 20 billion dollars worth of biopharmaceuticals are scheduled to go off patent by 2006 Given the strong political impetus and the development of technological tools that can answer the questions regulatory authorities may raise it is inevitable that the FDA and EMEA will allow biogeneric or biosimilar products Even with all the regulatory

Protein Purification Protocols Shawn Doonan,2008-02-02

Hans Neurath has written that this is the second golden era of enzymology Protein Science 1994 vol 3 pp 1734 1739 he could with justice have been more general and referred to the second golden age of protein chemistry The last two decades have seen enormous advances in our understanding of the structures and functions of proteins arising on the one hand from improvements and developments in analytical techniques see the companion volume Basic Protein and Peptide Protocols in this series and on the other hand from the technologies of molecular genetics Far from turning the focus away from protein science the ability to isolate

analyze and express genes has increased interest in proteins as gene products Hence many laboratories are now getting involved in protein isolation for the first time either as an essential adjunct to their work in molecular genetics or because of a curiosity to know more about the products of the genes that they have been studying Protein Purification Protocols is aimed mainly at these newcomers to protein purification but it is hoped that it will also be of value to established practitioners who may find here techniques that they have not tried but which might well be most applicable in their work With the exception mainly of the first and last chapters the format of the contributions to the present book conform to the established format of the Methods in Molecular Biology series

Advanced Technologies for Protein Complex Production and Characterization M. Cristina Vega, 2016-05-10 This book presents advanced expression technologies for the production of protein complexes Since complexes lie at the heart of modern biology the expression purification and characterization of large amounts of high quality protein complexes is crucial for the fields of biomedicine biotechnology and structural biology From co expression in E coli yeast mammalian and insect cells to complex reconstitution from individual subunits this book offers useful insights and guidance for successful protein expressionists Across several sections readers will discover existing opportunities for the production of protein complexes in bacterial systems including membrane proteins and cell free co expression methylotrophic and non methylotrophic yeasts protozoa Leishmania tarentolae and Dictyostelium discoideum baculovirus infected insect cells mammalian cells plants and algae Complex reconstitution from individually purified subunits or subcomplexes is discussed as a complementary strategy A last section introduces briefly some of the biophysical and structural characterization techniques for macromolecular complexes using state of the art solution scattering and nuclear magnetic resonance This work is a guided tour over some of the most powerful and successful protein expression technologies with a focus on co expression and high throughput applications It is addressed to everyone interested in the production and characterization of macromolecular complexes from university students who want an accessible description of the major co expression systems to researchers in biomedicine and the life sciences seeking for an up to date survey of available technologies

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

Capillary Electrophoresis Guidebook Kevin D. Altria, 2008-02-02 This book is intended to be a working guide to the operation of capillary electrophoresis CE instrumentation Since CE is still a rapidly maturing technique detailed

validated protocols are not widely established Therefore extensive experimental procedures are not provided for individual analyses The intention is to provide general guide lines on the principles and practice of CE and to give an overview of the specific technologies and important application areas Part I provides operating instructions for standard commercially available instruments Guidelines are included for activities such as changing capillaries method development quantitative procedures optimization of precision and sensitivity and the validation of methods fraction collection and troubleshooting as well as a quick guide to running a separation The application range of CE is possibly the most diverse of all analytical techniques and ranges from large complex macromolecules such as proteins and nucleic acids to small solutes such as organic drugs and inorganic anions and cations

Short Protocols in Molecular Biology Frederick M. Ausubel,2002
Recently expanded to 2 volumes Short Protocols in Molecular Biology Fifth Edition provides condensed descriptions of more than 700 methods compiled from Current Protocols in Molecular Biology Includes new chapters on chromatin assembly and analysis nucleic acid arrays generation and use of combinatorial libraries discovery and analysis of differentially expressed genes in single cells and cell populations The book is specifically designed to provide quick access to step by step instructions for the essential methods used in every major area of molecular biological research Short Protocols in Molecular Biology Fifth Edition is an authoritative and indispensable guide for all life scientists researchers and students at the graduate and advanced undergraduate level Expanded to 2 volumes

Computer Analysis of Sequence Data Part II Annette M. Griffin,Hugh G. Griffin,2008-02-02
DNA sequencing has become increasingly efficient over the years resulting in an enormous increase in the amount of data generated In recent years the focus of sequencing has shifted from being the endpoint of a project to being a starting point This is especially true for such major initiatives as the human genome project where vast tracts of DNA of unknown function are sequenced This sheer volume of available data makes advanced computer methods essential to analysis and a familiarity with computers and sequence analysis software a vital requirement for the researcher involved with DNA sequencing Even for nonsequencers a familiarity with sequence analysis software can be important For instance gene sequences already present in the databases can be extremely useful in the design of cloning and genetic manipulation experiments This two part work on Computer Analysis of Sequence Data is designed to be a practical aid to the researcher who uses computers for the acquisition storage or analysis of nucleic acid and or protein sequences Each chapter is written such that a competent scientist with basic computer literacy can carry out the procedure successfully at the first attempt by simply following the detailed practical instructions that have been described by the author A Notes section which is included at the end of each chapter provides advice on overcoming the common problems and pitfalls sometimes encountered by users of the sequence analysis software

Short Protocols in Protein Science John E. Coligan,2003-10-24
Short Protocols in Protein Science provides condensed descriptions of more than 500 protocols compiled from Current Protocols in Protein Science Drawing from both the original core manual as well as the quarterly

update service this compendium includes all step by step descriptions of the principal methods covered in Current Protocols in Protein Science **Baculovirus and Insect Cell Expression Protocols** David W. Murhammer,2007-07-06 Baculovirus Expression Protocols Second Edition provides the detailed steps required to perform the techniques involved with the use of baculoviruses and insect cell culture and discusses problems that may be encountered This newly revised and updated edition provides a cutting edge step by step guide for biochemists molecular biologists biochemical engineers and others using the BEVS and or insect cells for producing recombinant proteins Furthermore Baculovirus Expression Protocols Second Edition provides assistance to scientists and engineers interested in developing and producing baculovirus insecticides Authors list all available insect cell lines and provide methods for isolating new cell lines The procedures involved in producing products both at laboratory scale and large scale are discussed as well as the production in insect larvae It is hoped that this volume will not only aid the user in successfully completing the tasks described herein but will also stimulate the development of improved techniques and new applications of baculoviruses and insect cell culture Timely and thorough this volume will become an essential reference for anyone using baculoviruses and insect cell culture *G Protein Pathways, Part A: Receptors* 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 [Gene Therapy Protocols](#) Joseph LeDoux,2008-04-24 In this book internationally recognized investigators describe cutting edge laboratory techniques for the study of Production and In Vivo Applications of Gene Transfer Vectors and Design and Characterization of Gene Transfer Vectors Readers will find a comprehensive resource of current and emerging methods for the production of viral and non viral gene transfer vectors as well as detailed protocols for applications in stem cell biology cancer research and infectious disease **Biochemical and Organic Compounds for Research and Diagnostic Clinical Reagents** Sigma Chemical Company,1995

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