

Methods in Molecular Biology™

Volume 69

cDNA LIBRARY PROTOCOLS

Edited by

Ian G. Cowell

and ***Caroline A. Austin***



Humana Press

Cdna Library Protocols Methods In Molecular Biology

Ralph Rapley, John M. Walker



Cdna Library Protocols Methods In Molecular Biology:

cDNA Library Protocols Ian G. Cowell, Caroline A. Austin, 2008-02-02 The first libraries of complementary DNA cDNA clones were constructed in the mid to late 1970s using RNA dependent DNA polymerase reverse transcriptase to convert poly A mRNA into double stranded cDNA suitable for insertion into prokaryotic vectors Since then cDNA technology has become a fundamental tool for the molecular biologist and at the same time some very significant advances have occurred in the methods for constructing and screening cDNA libraries It is not the aim of cDNA Library Protocols to give a comprehensive review of all cDNA library based methodologies instead we present a series of up to date protocols that together should give a good grounding of procedures associated with the construction and use of cDNA libraries In deciding what to include we endeavored to combine up to date versions of some of the most widely used protocols with some very useful newer techniques cDNA Library Protocols should therefore be especially useful to the investigator who is new to the use of cDNA libraries but should also be of value to the more experienced worker Chapters 1-5 concentrate on cDNA library construction and manipulation Chapters 6 and 7 describe means of cloning difficult to obtain ends of cDNAs Chapters 8-18 give various approaches to the screening of cDNA libraries and the remaining chapters present methods of analysis of cDNA clones including details of how to analyze cDNA sequence data and how to make use of the wealth of cDNA data emerging from the human genome project

CDNA Library Protocols. Methods in Molecular Biology Ian G. Cowell, Caroline A. Austin, 1997 This comprehensive collection of detailed protocols covers all areas of cDNA work from library construction and manipulation to screening and analysis of resulting clones Great care has been taken to combine up to date versions of some of the most widely used protocols with some very useful newer techniques The protocols describe methods for cloning difficult to obtain ends of cDNAs methods for analyzing cDNA sequence data and methods for using the wealth of cDNA data emerging from the human genome project Bearing in mind the importance of the library screening method to the determination of cloning strategy the book offers a wide range of approaches to screening cDNA libraries

Methods in Molecular Biology: cDNA library protocols John M. Walker, 1984

PCR Protocols Bruce A. White, 2008-02-02 PCR has been successfully utilized in every facet of basic clinical and applied studies of the life sciences and the impact that PCR has had on life science research is already staggering Coincident with the essentially universal use of PCR has been the creative and explosive development of a wide range of PCR based techniques and applications These increasingly numerous protocols have each had the general effect of facilitating and accelerating research Because PCR technology is relatively easy and inexpensive PCR applications are well within the reach of every research lab In this sense PCR has become the equalizer between small and big labs since its use makes certain projects especially those related to molecular cloning now far more feasible for the small lab with a modest budget This new volume on PCR Protocols does not attempt the impossible task of representing all PCR based protocols Rather it presents a range of protocols both analytical and preparative that provide a

solid base of knowledge on the use of PCR in many common research problems The first six chapters provide some basic information on how to get started Chapters 7-19 represent primarily analytical uses of PCR both for simple DNA and RNA detection as well as for more complex analyses of nucleic acid e.g. DNA footprinting RNA splice site localization The remaining chapters represent synthetic or preparative uses of PCR

Chemokine Protocols Amanda E.I. Proudfoot, Timothy N.C. Wells, Christine Power, 2008-02-05 The chemokines family of small proteins are involved in numerous biological processes ranging from hematopoiesis angiogenesis and basal leukocyte trafficking to the extravasation and tissue infiltration of leukocytes in response to inflammatory agents tissue damage and bacterial or viral infection Chemokines exert their effects through a family of seven G protein coupled transmembrane receptors Worldwide interest in the chemokine field surged dramatically early in 1996 with the finding that certain chemokine receptors were the elusive coreceptors required along with CD4 for HIV infection Today though over 40 human chemokines have been described the number of chemokine receptors lags behind only 17 human chemokine receptors have been identified so far What has emerged over the years is that most chemokine receptors bind several distinct ligands and indeed the majority of chemokines are able to bind to multiple chemokine receptors explaining to some extent the apparent disparity in the numbers of chemokines and receptors Yet in spite of the apparent redundancy in chemokine receptor interactions it is clear that in vivo spatial temporal and indeed cell and tissue specific expression of both chemokines and their receptors are important factors in determining the precise nature of cellular infiltrates in physiological and pathological processes

Adrenergic Receptor Protocols Curtis A. Machida, 2008-02-03 Adrenergic receptors are important modulators in the sympathetic control of various metabolic processes in the central and peripheral nervous systems These receptors are localized at multiple sites throughout the central nervous system CNS and serve as important regulators of CNS mediated behavior and neural functions including mood memory neuroendocrine control and stimulation of autonomic function Adrenergic Receptor Protocols consists of 35 chapters dealing with various aspects of adrenergic receptor analyses including the use of genetic RNA protein expression transactivator second messenger immunocytochemical electrophysiological transgenic and in situ hybridization approaches This volume details the use of various methods to examine the adrenergic receptor system using aspects of the genetic flow of information as a guide DNA RNA transactivator protein expression second messenger analyses cellular analyses transgenic whole animal approaches Adrenergic Receptor Protocols displays step by step methods for successful replication of experimental procedures and would be useful for both experienced investigators and newcomers in the field including those beginning graduate study or undergoing postdoctoral training The Notes section contained in each chapter provides valuable troubleshooting guides to help develop working protocols for your laboratory With Adrenergic Receptor Protocols it has been my intent to develop a comprehensive collection of modern molecular methods for analyzing adrenergic receptors I would like to thank the many chapter authors for their contributions

Introduction to Experimental Biophysics Jay L. Nadeau, 2017-10-10 Praise for

the First Edition essential reading for any physical scientist who is interested in performing biological research

Contemporary Physics an ambitious text Each chapter contains protocols and the conceptual reasoning behind them which is often useful to physicists performing biological experiments for the first time

Physics Today This fully updated and expanded text is the best starting point for any student or researcher in the physical sciences to gain firm grounding in the techniques employed in molecular biophysics and quantitative biology It includes brand new chapters on gene expression techniques advanced techniques in biological light microscopy super resolution two photon and fluorescence lifetime imaging holography and gold nanoparticles used in medicine The author shares invaluable practical tips and insider s knowledge to simplify potentially confusing techniques The reader is guided through easy to follow examples carried out from start to finish with practical tips and insider s knowledge The emphasis is on building comfort with getting hands wet with basic methods and finally understanding when and how to apply or adapt them to address different questions Jay L Nadeau is a scientific researcher and head of the Biomedical Engineering in Advanced Applications of Quantum Oscillatory and Nanotechnological Systems BEAQONS lab at Caltech and was previously associate professor of biomedical engineering and physics at McGill University

Generation of cDNA Libraries Shao-Yao Ying,2008-02-03 Since its invention and subsequent development nearly 20 years ago polymerase chain reaction PCR has been extensively utilized to identify numerous gene probes in vitro and in vivo However attempts to generate complete and full length complementary cDNA libraries were for the most part fruitless and remained elusive until the last decade when simple and rapid methods were developed With current decoding and potential application of human genome information to genechips there are urgent needs for identification of functional significance of these decoded gene sequences Inherent in bringing these applications to fruition is the need to generate a complete and full length cDNA library for potential functional assays of specific gene sequences

Generation of cDNA Libraries Methods and Protocols serves as a laboratory manual on the evolution of generation of cDNA libraries covering both background information and step by step practical laboratory recipes for which protocols reagents operational tips instrumentation and other requirements are detailed The first chapter of the book is an overview of the basics of generating cDNA libraries which include the following a the definition of a cDNA library b different kinds of cDNA libraries c differences between methods for cDNA library generation using conventional approaches and novel strategies including reverse generation of RNA repertoires from cDNA libraries and d the quality of cDNA libraries

Molecular Biomethods Handbook Ralph Rapley,John M. Walker,2007-10-09 An authoritative team of investigators illuminate the core bioanalytical techniques used every day in their own laboratories and laboratories throughout the world These highly experienced scientists fully explain both the theory behind and the application of these key techniques and include extensive references for those seeking detailed laboratory protocols The techniques covered range from the extraction separation detection and characterization of nucleic acids to gene cloning and library production mapping expression transgenesis

differential display and DNA profiling to name a few Numerous key protein methods as well as support and related techniques are also included The goal is to provide established scientists and novices who are new to these techniques with a deeper understanding of the widest variety of biotechniques and their applications

Natural Killer Cell Protocols Kerry S. Campbell,Marco Colonna,2008-02-03 In Natural Killer Cell Protocols Cellular and Molecular Methods Kerry S Campbell and Marco Colonna have assembled a comprehensive collection of readily reproducible methods designed to study natural killer NK cells from the broadest variety of viewpoints These include not only classic techniques but also new approaches to standard methods newly evolved techniques that have become valuable for specific applications and unique models for manipulating and studying NK cells Among the advanced methods covered are those for in vitro transendothelial migration in vivo detection of cells migrating into tumors immunofluorescence staining of intracellular cytokines and in vitro NK cell development Valuable techniques for specific applications include vaccinia virus protein expression soluble KIR Fc fusions for HLA class I binding assays calcium mobilization in cell conjugates and identification of heterodimeric receptor complexes using cDNA library expression cloning No less important are accounts of such classic methods as hybrid resistance ADCC viral defense target cell cytotoxicity assays cloning and culturing tumor immunotherapy and generation of HLA class I transfected target cells Natural Killer Cell Protocols Cellular and Molecular Methods offers immunologists cancer researchers virologists and cell biologists today s most comprehensive collection of both established and cutting edge techniques methods that will contribute significantly to advancing our understanding of this fascinating and critically important class of cells

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