

Methods in Molecular Biology™

VOLUME 192

PCR Cloning Protocols

Second Edition

Edited by

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HUMANA PRESS

Pcr Cloning Protocols Methods In Molecular Biology

Shasha Hu



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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

PCR Cloning Protocols Bruce A. White, 1997 Distinguished scientists and researchers present a comprehensive collection of current preparative PCR techniques that can be used in cloning and modifying DNA and cDNA Topics include performing and optimizing PCR including long PCR cloning PCR products cloning unknown neighboring DNA and library construction and screening Also covered are mutagenesis recombination and in vitro selection differential and subtractive approaches to cDNA analysis and screening and cloning members of gene families The techniques bring to both new and established researchers the power to apply PCR based methodology to the cloning and modification of DNA either through innovative protocols or by fostering individual creativity to modify and customize the protocols to best fit their own needs

Methods in Molecular Biology: PCR cloning protocols John M. Walker, 1984

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PCR Cloning Protocols Bruce Alan White, 1997 This book provides extensive protocols on the use of PCR for molecular cloning including the cloning of known sequences cloning of unknown sequences and cloning of gene family members

PCR Cloning Protocols Bing-Yuan Chen, Harry W. Janes, 2002-04-01 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

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 acids, e.g., DNA footprinting, RNA splice site localization. The remaining chapters represent synthetic or preparative uses of PCR.

PCR in Bioanalysis Stephen J. Meltzer, 2008-02-03. PCR in Bioanalysis offers powerful PCR-based protocols and assays in actual use or potential use in clinical medicine and commercial biology. The main focus of the book is on the commercial applications of PCR as opposed to basic research uses. Topics covered include the measurement of hormone levels using PCR, transcription factor isolation, detection of viruses using PCR, detection of tumor contamination of stem cells, evaluation of grafts for tumor cells, and more.

PCR Protocols Daniel J. Park, 2011-04-06. Known for flexibility and robustness, PCR techniques continue to improve through numerous developments, including the identification of thermostable DNA polymerases which exhibit a range of properties to suit given applications. PCR Protocols, Third Edition, selects recently developed tools and tricks contributed by field-leading authors for the significant value that they add to more generally established methods. Along with the cutting-edge methodologies, this volume describes many core applications such as PCR cloning and sequencing, expression copy number or methylation profile analysis, DNA fingerprinting, diagnostics, protein engineering, interaction screening, as well as a chapter highlighting workflow considerations and contamination control, crucial for all PCR methods. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary reagents and materials, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and up-to-date, PCR Protocols, Third Edition, seeks to further elucidate this essential technique while also providing core principles with broad applications for scientists of all backgrounds.

Confocal Microscopy Stephen W. Paddock, 2008-02-03. Practical Protocols in Molecular Biology Yongming Li, Yuqi Zhao, 1996. **Biochemicals and Reagents**, PCR Protocols in Molecular Toxicology John P. Vanden Heuvel, 2019-05-07. Molecular toxicology is an emerging discipline that utilizes molecular and cell biology to understand how drugs and chemicals result in their unwanted effects. PCR Protocols in Molecular Toxicology is a practical guide to the use of polymerase chain reaction (PCR) to help examine on a molecular and cellular level how toxic responses are manifested. It offers a basic understanding of PCR and its optimization, as well as describing specific high-impact areas of molecular toxicology and recent advances. The following techniques are described in detail: Quantitative

reverse transcriptase PCR and methods to examine gene expression Differential display cloning Cloning and library screening by PCR Genotype and polymorphism analysis of drug and toxicant metabolizing enzymes Basic non PCR based molecular biology methods PCR Protocols in Molecular Toxicology will aid both novices and experienced PCR practitioners in using PCR to its fullest potential ICN ICN Pharmaceuticals, inc,1999 **Current Protocols in Molecular Biology** Frederick M. Ausubel,1987 *Biochemicals and Reagents for Life Science Research* Sigma Chemical Company,1999 **DNA and Cell Biology** ,2009 **PCR** Lucília Domingues,2023-08-22 This second volume focuses on PCR methods and PCR application specificities to the biotechnology and bioengineering field New and updated chapters detail real time PCR protocols synthetic biology applications pathogen detection microfluidics digital multiplex detection recent advances 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 cutting edge PCR Methods and Protocols Second Edition aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge PCR Protocols Michael A. Innis,David H. Gelfand,John J. Sninsky,Thomas J. White,2012-12-02 The correct procedures you need for frustration free PCR methods and applications are contained in this complete step by step clearly written inexpensive manual Avoid contamination with specific instructions on setting up your lab Avoid cumbersome molecular biological techniques Discover new applications **Report of the Council for Tobacco Research--U.S.A., Inc** Council for Tobacco Research--U.S.A.,1996

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