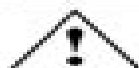


# Gateway™ LR Clonase™ II Enzyme Mix

Catalog Number 11791-020 and 11791-100

Doc. Part No. 11791.II.pps Pub. No. MAN0001032 Rev. A.0



**WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](http://thermofisher.com/support).

## Product description

Invitrogen™ Gateway™ LR Clonase™ II enzyme mix is a proprietary enzyme and buffer formulation containing the bacteriophage lambda recombination proteins Integrase (Int) and Excisionase (Xis), the *E. coli*-encoded protein Integration Host Factor (IHF), and reaction buffer provided in a single mix for convenient reaction set up. Gateway™ LR Clonase™ II enzyme mix catalyzes in vitro recombination between an entry clone (*attL*-flanked “gene”) and an *attR*-containing destination vector to generate an *attB*-containing expression clone. Store Gateway™ LR Clonase™ II enzyme mix at –20°C (non-frost-free freezer) for up to 6 months. For long-term storage, store at –80°C.

## Gateway™ technology

Gateway™ Technology is a universal cloning method that takes advantage of the site-specific recombination properties of bacteriophage lambda to provide a rapid and highly efficient way to move DNA sequences into multiple vector systems. The Gateway™ Technology is schematically represented below.

$$attB1\text{-gene-}attB2 \times attP1\text{-}ccdB\text{-}attP2 \Leftrightarrow attL1\text{-gene-}attL2 \times attR1\text{-}ccdB\text{-}attR2$$

(expression clone)      (pDONR™)      (entry clone)      (destination vector)

The *attB* × *attP* reaction is mediated by Gateway™ BP Clonase™ II enzyme mix; the *attL* × *attR* reaction is mediated by Gateway™ LR Clonase™ II enzyme mix. *ccdB* is the F plasmid-encoded gene that inhibits growth of *E. coli* and “gene” represents any DNA segment of interest (e.g. PCR product, cDNA, genomic DNA).

# Gateway Clonase Manual

**Carl W. Dieffenbach, Gabriela S.  
Dveksler**



## **Gateway Clonase Manual:**

**The Plant Cell Wall Methods and Protocols** Zoë A. Popper,      **Genetics of Apicomplexans and Apicomplexan-Related Parasitic Diseases** Moses Okpeku, Matthew Adekunle Adeleke, Jun-Hu Chen, 2022-03-28

**Holland-Frei Cancer Medicine** Robert C. Bast, Jr., Carlo M. Croce, William N. Hait, Waun Ki Hong, Donald W. Kufe, Martine Piccart-Gebhart, Raphael E. Pollock, Ralph R. Weichselbaum, Hongyang Wang, James F. Holland, 2017-03-13  
Holland Frei Cancer Medicine Ninth Edition offers a balanced view of the most current knowledge of cancer science and clinical oncology practice This all new edition is the consummate reference source for medical oncologists radiation oncologists internists surgical oncologists and others who treat cancer patients A translational perspective throughout integrating cancer biology with cancer management providing an in depth understanding of the disease An emphasis on multidisciplinary research driven patient care to improve outcomes and optimal use of all appropriate therapies Cutting edge coverage of personalized cancer care including molecular diagnostics and therapeutics Concise readable clinically relevant text with algorithms guidelines and insight into the use of both conventional and novel drugs Includes free access to the Wiley Digital Edition providing search across the book the full reference list with web links illustrations and photographs and post publication updates      **RNA Interference** Dr. Tim Doran, Chris Helliwell, 2009 This methods manual provides an introduction to RNA interference the theory behind its many applications and specific protocols for RNAi in organisms from plants and C elegans to Drosophila and mammals There are also chapters covering small hairpin RNAs and viral induced gene silencing      **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      **Macromolecular Crystallography Protocols, Volume 1** Sylvie Doublié, 2008-02-04 Macromolecular Crystallography Protocols now in two volumes examines major developments that have occurred since publication of the acclaimed first edition nearly a decade ago Volume 1 Preparation and Crystallization of Macromolecules and Volume 2 Structure Determination explore recent advances that have accelerated the pace of structural determination and made crystallography accessible to a broader range of investigators Volume 1 is composed of detailed protocols for the preparation and optimization of crystals including tips from the experts on the best methods for inducing proteins to adopt their crystalline form Volume 2 complements the first

volume by addressing laboratory techniques for crystal handling and structural characterization as well as computational techniques for data collection phasing and refinement The volume concludes with a detailed and insightful survey of available crystallographic software These volumes will be an indispensable reference for obtaining macromolecular crystals and determining their three dimensional structure      Development of Circadian Clock Functions, volume II Daisuke Ono,Takahiro J. Nakamura,Jeff Jones,Jihwan Myung,Rae Silver,2024-07-31 The temporal order of physiological functions such as sleep wakefulness is regulated by the circadian clock This intrinsic clock starts ticking in the embryo and matures during development with attenuation of the clock function in the elderly illustrated by attenuation of synchrony entrainment and outputs of cellular circadian rhythms in the SCN This age related diminution can contribute to the emergence of diseases such as sleep disorders infertility diabetes mental disorders etc Over the course of our lives a variety of internal and external factors are under the influence of the circadian clock This inherent developmental plasticity of the circadian system is critical for the establishment of normal bodily functions to adapt to the changing environment on earth In mammals the central circadian clock is located in the suprachiasmatic nucleus SCN of the hypothalamus Circadian rhythms in the SCN are observed during the embryonic period and input and output pathways from the SCN are formed after birth During postnatal development functions of neurotransmitters in the SCN are changed which have an influence on special temporal patterns of circadian rhythms in the SCN and outputs signals to the outside of the SCN During postnatal development properties of circadian rhythms in the SCN and its inputs and outputs can be modulated by environmental light conditions Recent optical manipulation and imaging techniques have revealed that cell type specific functions for circadian rhythms However it remains unclear which cell types or networks in the brain are modulated during postnatal development and how these cells regulate circadian rhythms depending on postnatal period      Integrated Genomics Guy A. Caldwell,Shelli N. Williams,Kim A. Caldwell,2006-08-04 Integrated Genomics A Discovery Based Laboratory Course introduces the excitement of discovery to the basic molecular biology laboratory Utilizing up to date molecular biology protocols and a basic experimental design this text offers experience with three different model systems Students will become familiar with the simplicity and power of single celled organisms Escherichia coli and Saccharomyces cerevisiae as they search for genes that interact and function within the nematode Caenorhabditis elegans Incorporated throughout the course are exercises designed to offer students familiarity with the wealth of bioinformatics data that can be accessed on the World Wide Web Following completion of interaction studies within the yeast the course is designed to allow students to examine the functional consequences of reducing a gene s function within the multicellular worm that is both simple and inexpensive to maintain within a laboratory The inclusion of alternative experiments allow for flexibility in determining the ending date or goal of the laboratory as well as working within the available budget and resources of most any classroom environment Further striking features of this title are An accompanying Web site providing PowerPoint slides plus links to the internet and regular updates as

bioinformatics databases evolve and methods improve [www.wiley.com/go/caldwell](http://www.wiley.com/go/caldwell) Inclusion of modern genomic proteomic technologies such as the yeast two hybrid system and RNAi Detailed experimental protocols and easy access to instructional materials This discovery based laboratory course provides excellent practical training for those pursuing career paths in biomedicine pharmacy and biotechnology

**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

**E. coli Gene Expression Protocols** Peter E. Vaillancourt, 2008-02-02 Peter E Vaillancourt presents a collection of popular and emerging methodologies that take advantage of E coli's ability to quickly and inexpensively express recombinant proteins The authors focus on two areas of interest the use of E coli vectors and strains for production of pure functional protein and the use of E coli as host for the functional screening of large collections of proteins and peptides Among the cutting edge techniques demonstrated are those for rapid high level expression and purification of soluble and functional recombinant protein and those essential to functional genomics proteomics and protein engineering

**Model Organisms in Plant Science: Arabidopsis thaliana** Valvya N. Vassileva, Ali Ferjani, Hironaka Tsukagoshi, 2023-10-05

**Primary and Stem Cells** Uma Lakshmi pathy, Bhaskar Thyagarajan, 2011-10-31 This book describes basic cell engineering methods emphasizing stem cell applications and use of the genetically modified stem cells in cell therapy and drug discovery Together the chapters introduce and offer insights on new techniques for engineering of stem cells and the delivery of transgenes into stem cells via various viral and non viral systems The book offers a guide to the types of manipulations currently available to create genetically engineered stem cells that suit any investigator's purpose whether it's basic science investigation creation of disease models and screens or cells for therapeutic applications

**Practical Methods for Biocatalysis and Biotransformations 2** John Whittall, Peter W. Sutton, 2012-04-16 Biocatalysts are increasingly used by chemists engaged in

fine chemical synthesis within both industry and academia Today there exists a huge choice of high tech enzymes and whole cell biocatalysts which add enormously to the repertoire of synthetic possibilities Practical Methods for Biocatalysis and Biotransformations 2 is a how to guide that focuses on the practical applications of enzymes and strains of microorganisms that are readily obtained or derived from culture collections The sources of starting materials and reagents hints tips and safety advice where appropriate are given to ensure as far as possible that the procedures are reproducible Comparisons to alternative methodology are given and relevant references to the primary literature are cited This second volume which can be used on its own or in combination with the first volume concentrates on new applications and new enzyme families reported since the first volume Contents include introduction to recent developments and future needs in biocatalysts and synthetic biology in industry reductive amination enoate reductases for reduction of electron deficient alkenes industrial carbonyl reduction regio and stereo selective hydroxylation oxidation of alcohols selective oxidation industrial hydrolases and related enzymes transferases for alkylation glycosylation and phosphorylation C C bond formation and decarboxylation halogenation dehalogenation heteroatom oxidation tandem and sequential multi enzymatic syntheses Practical Methods for Biocatalysis and Biotransformations 2 is an essential collection of biocatalytic methods for chemical synthesis which will find a place on the bookshelves of synthetic organic chemists pharmaceutical chemists and process R D chemists in industry and academia

*PCR Primer* Carl W. Dieffenbach, Gabriela S. Dveksler, 2003 The Polymerase Chain Reaction PCR technique was invented nearly 20 years ago Its subsequent variations and applications were many and varied and today molecular biology clinical and forensic laboratories make almost daily use of PCR This second edition of the much praised PCR Primer A Laboratory Manual updates the tried and true methods and presents the advances made in the 10 years since the first edition After introducing the basics for PCR and methods of sample preparation PCR Primer provides laboratory tested protocols for RT PCR methods detection of PCR products analysis of differential expression cloning and mutagenesis These step by step methods include extensive background information as well as valuable troubleshooting information provided by the leading experts in this technology This manual is a comprehensive and reliable source of the full range of PCR methods for novices and experienced investigators alike

ROS Regulation during Plant Abiotic Stress Responses Zhulong Chan, Chun-Peng Song, Woe Yeon Kim, Ken Yokawa, 2017-02-08 Plants are continuously exposed to a wide range of environmental conditions including cold drought salt heat which have major impact on plant growth and development To survive plants have evolved complex physiological and biochemical adaptations to cope with a variety of adverse environmental stresses Among them reactive oxygen species ROS are key regulators and play pivotal roles during plant stress responses which are thought to function as early signals during plant abiotic stress responses ROS were long regarded as unwanted and toxic by products of physiological metabolism However ROS are now recognized as central players in the complex signaling network of cells Therefore a fine tuning control between ROS production and scavenging pathways is essential to maintain non toxic levels in

planta under stressful conditions through enzymatic and non enzymatic antioxidant defense systems We focus on the roles of ROS during plant abiotic stress responses in this Research Topic Plant responses to multiple abiotic stresses and effects of hormones and chemicals on plant stress responses have been carefully studies Although functions of several stress responsive genes have been characterized and possible interactions between hormones and ROS are discussed future researches are needed to functionally characterize ROS regulatory and signaling transduction pathways

*Trafficking of Cardiac Ion Channels* Marcel Verges,2021-04-27 Protein sorting and trafficking are regulated by well conserved mechanisms These allow a distinctive set of resident proteins to be present in the correct subcellular organelle which is required for proper cell functioning Voltage gated ion channels as responsible for cardiomyocyte action potential must be properly localized They participate in cell excitability and electrical coupling ensuring uninterrupted and rhythmic heart beating Ion channel complexes comprise one or more pore forming subunits associated subunits and additional proteins Channel localization and function are regulated by the subunits and associated proteins such as cytoskeletal elements cell adhesion molecules and adaptors These influence protein targeting anchoring and retention in specific surface domains along the cardiomyocyte sarcolemma such as intercalated discs T tubules or the lateral membrane Alterations in ion channel trafficking are the cause of channelopathies associated with inherited arrhythmias leading to sudden death An outstanding question is how these molecular alterations lead to disease In this volume scientists share their vision to understand how cardiac ion channel trafficking is regulated and how it may become altered leading to channelopathies that often turn into deadly arrhythmias Data generated can be translated to a clinical context hopefully turning into approaches to help prevention and treatment which is of utmost importance both medically and socially

**Laboratory Protocols in Fungal Biology** Vijai Kumar Gupta,Maria G. Tuohy,Manimaran Ayyachamy,Kevin M. Turner,Anthonia O'Donovan,2012-12-09 Laboratory Protocols in Fungal Biology presents the latest techniques in fungal biology This book analyzes information derived through real experiments and focuses on cutting edge techniques in the field The book comprises 57 chapters contributed from internationally recognised scientists and researchers Experts in the field have provided up to date protocols covering a range of frequently used methods in fungal biology Almost all important methods available in the area of fungal biology viz taxonomic keys in fungi histopathological and microscopy techniques proteomics methods genomics methods industrial applications and related techniques and bioinformatics tools in fungi are covered and complied in one book Chapters include introductions to their respective topics list of the necessary materials and reagents step by step readily reproducible laboratory protocols and notes on troubleshooting Each chapter is self contained and written in a style that enables the reader to progress from elementary concepts to advanced research techniques Laboratory Protocols in Fungal Biology is a valuable tool for both beginner research workers and experienced professionals Coming Soon in the Fungal Biology series

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Insights in plant symbiotic interactions: 2021 Andrea Genre,Katharina Pawlowski,Sabine Dagmar Zimmermann,Sergio Saia,2023-03-15      **Effects of Ammonium Or Nitrate Nutrition on Wood Formation of Populus Sp. and Arabidopsis Thaliana** Aileen Kogel,2020 Nitrogen is an essential nutrient taken up by plants from the soil mainly as nitrate and ammonium Poplars are fast growing woody species that use both nitrogen forms for their nutrition However little is known how different forms of nitrogen nutrition influence biomass production and wood formation in poplar The goal of this study was to characterize growth biomass production anatomical effects and the regulation of genes involved in wood formation of poplars in response to nitrate or ammonium feeding A further goal was to characterize a selected candidate gene PtGATA12 functionally using poplar and Arabidopsis as model plants      The Plant Endoplasmic Reticulum Verena Kriechbaumer,2024-02-27 This second edition provides new and updated methods detailing techniques and state of the art approaches on the structure and function of plant endoplasmic reticulum ER Chapters guide readers through modern microscopy techniques software protocols purification and analysis of ER membrane structure 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 The Plant Endoplasmic Reticulum Methods and Protocols Second Edition aims to ensure successful results in the further study of this vital field



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