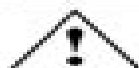


Gateway™ LR Clonase™ II Enzyme Mix

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.

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).

Technology With Clonase Ii Manual

**Vijai Kumar Gupta, Maria G.
Tuohy, Manimaran Ayyachamy, Kevin
M. Turner, Anthonia O'Donovan**

Technology With Clonase Ii Manual:

Genetics of Apicomplexans and Apicomplexan-Related Parasitic Diseases Moses Okpeku, Matthew Adekunle Adeleke, Jun-Hu Chen, 2022-03-28 Primary and Stem Cells Uma Lakshmipathy, 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 Intra- and inter-species interactions in microbial communities Luis Raul Comolli, Birgit Luef, Manfred Auer, 2015-03-03 Recent developments in various OMICs fields have revolutionized our understanding of the vast diversity and ubiquity of microbes in the biosphere However most of the current paradigms of microbial cell biology and our view of how microbes live and what they are capable of are derived from in vitro experiments on isolated strains Even the co culturing of mixed species to interrogate community behavior is relatively new But the majority of microorganisms lives in complex communities in natural environments under varying conditions and often cannot be cultivated Unless we obtain a detailed understanding of the near native 3D ultrastructure of individual community members the 3D spatial community organization their metabolic interdependences coordinated gene expression and the spatial organization of their macromolecular machines inventories as well as their communication strategies we won't be able to truly understand microbial community life How spatial and also temporal organization in cell cell interactions are achieved remains largely elusive For example a key question in microbial ecology is what mechanisms microbes employ to respond when faced with prey competitors or predators and changes in external factors Specifically to what degree do bacterial cells in biofilms act individually or with coordinated responses What are the spatial extent and coherence of coordinated responses In addition networks linking organisms across a dynamic range of physical constraints and connections should provide the basis for linked evolutionary changes under pressure from a changing environment Therefore we need to investigate microbial responses to altered or adverse environmental conditions including phages predators and competitors and their macromolecular metabolic responses according to their spatial organization We envision a diverse set of tools including optical spectroscopical chemical and ultrastructural imaging techniques that will be utilized to address questions regarding e.g intra and inter organism interactions linked to ultrastructure and correlated adaptive responses in gene expression physiological and metabolic states as a consequence of the alterations of their environment Clearly strategies for co evolution and in general the display of adaptive strategies of a microbial network as a response to the altered environment are of high interest While a special focus will be placed on terrestrial sole species or mixed biofilms we are also interested in aquatic systems biofilms in general and microbes living in

symbiosis In this Research Topic we wish to summarize and review results investigating interactions and possibly networks between microbes of the same or different species their co occurrence as well as spatiotemporal patterns of distribution Our goal is to include a broad spectrum of experimental and theoretical contributions from research and review articles to hypothesis and theory aiming at understanding microbial interactions at a systems level 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 **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

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

Insights in Infectious Agents and Disease: 2022 Axel Cloeckert, 2024-07-18 We are now entering the third decade of the 21st Century and especially in the last years the achievements made by scientists in the field of Microbiology have been exceptional leading to major advancements Frontiers has organized a series of Research Topics to highlight the latest advancements in science in order to be at the forefront of science in different fields of research This specific editorial initiative led by Dr Axel Cloeckert is focused on new insights novel developments current challenges latest discoveries recent advances and future perspectives in the field The Research Topic solicits brief forward looking contributions from the editorial board members that describe the state of the art outlining recent developments and major achieved accomplishments future challenges and how to address those challenges to move the field forward Reviews Mini Reviews Perspectives and Opinions summarizing the current state and future directions of the field are particularly welcome in this collection

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 compiled 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 Goyal Manoharachary Future Challenges in Crop Protection Against Fungal Pathogens Mart n Garc a Estrada Zeilinger Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Zeilinger Mart n Garc a Estrada Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Volume 2 van den Berg Maruthachalam Genetic Transformation Systems in Fungi Schmoll Dattenbock Gene Expression Systems in Fungi Dahms Advanced Microscopy in Mycology

Gene Transfer Theodore Friedmann, John J. Rossi, 2007 Understanding gene function and regulation requires rigorous testing in live cells and organisms Recent advances have provided a variety of new

strategies for delivering DNA and RNA into cells and probing their expression as well as new clinical applications that rely upon the introduction of genetic material The vast number of available techniques for clinical and laboratory research often makes selecting the optimal method a difficult process Gene Transfer Delivery and Expression of DNA and RNA provides the first comprehensive guide to technical approaches for delivering nucleic acids into cells and organisms and of ensuring even manipulating appropriate expression The detailed step by step protocols cover a variety of methods both well established and newly evolving These include viral and nonviral methods of gene delivery transgenic approaches strategies for the regulation of transgene expression and modification of the host response The introductory matter to each chapter includes concise technical and theoretical discussions with considerations for selection of the appropriate system and strategies for delivery

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 The Advertising Red Books ,2008-07 **Technology** ,2010 **Technology Manual** Singh Kelly, Augustin Vukov, Anne Drougas, 2005-07

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properties of logarithms these will be very helpful as we continue to solve both exponential and logarithmic equations the first two properties derive from the definition of logarithms

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web 1 5 7 identify the hyperbolic functions their graphs and basic identities in this section we examine exponential and logarithmic functions we use the properties of these functions to solve equations involving exponential or logarithmic terms and we study the meaning and importance of the number e

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web the function defined by $f(x) = b^x$ $b > 0$ $b \neq 1$ is called an exponential function with base b and exponent x here the domain of f can be explained as a set of all real numbers let m and n be positive numbers and let a and b be real numbers then the exponential function $y = b^x$ $b > 0$ $b \neq 1$ is associated with the following properties the domain is

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web mar 27 2022 a common technique for solving equations with unknown variables in exponents is to take the log of the desired base of both sides of the equation then you can use properties of logs to simplify and solve the equation take the following equation to solve for t you should first simplify the expression as much as possible and then take

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web mth 5107 2 exponential and logarithmic functions and equations sofad 1 graphing an exponential function graph an exponential function of the form $f(x) = acb^x + h$ k and determine the characteristics of the function and the connections between the change in a parameter of the rule and the transformation of the corresponding cartesian

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web in this section we will discuss logarithmic functions and exponential functions the exponent rules we learned last section also apply to the exponents we see in exponential functions so here we will focus on the relationship

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web oct 3 2022 just as many physical phenomena can be modeled by exponential functions the same is true of logarithmic functions in exercises 75 76 and 77 of section 6 1 we showed that logarithms are useful in measuring the intensities of earthquakes the richter scale sound decibels and acids and bases ph

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