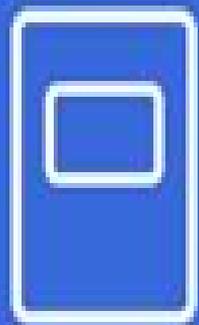


MOLECULAR CLONING

Tutorial: Gateway Cloning



TUTORIAL

Gateway Cloning

Learn how to simulate Gateway® cloning in Gateway Prime, including how to automatically design attB-flanked oligonucleotide primers, simulate BP and LR reactions, and also simulate Multiple Gateway cloning.

Introduction

Gateway Prime provides all of the tools required for primer design and in silico simulation of Gateway® cloning.

Thermo Fisher Scientific describe their Gateway® Technology as "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 a gene of interest into multiple vector systems." See the [Thermo Fisher Scientific website](#) for a full description of Gateway® cloning.

To express a gene of interest using Gateway the following steps are taken:

1. Generate an entry clone by performing a BP recombination reaction between a pDONR™ vector and an attB-PCR product or expression clone.
2. Generate the desired expression clone by performing an LR recombination reaction between the entry clone and a Gateway® destination vector.
3. Introduce your expression clone into the host system of choice for expression of your gene interest.

In this tutorial we will learn how to:

- Design Gateway-compatible oligonucleotide primers to amplify a sequence of interest
- Simulate PCR to create a Gateway-compatible PCR product
- Simulate recombination of PCR product with a donor vector via a BP reaction to create an Entry vector
- Simulate recombination of an Entry vector with a Destination vector via an LR reaction to create an Expression vector
- Simulate multiple Gateway cloning

Tutorial Structure

The first three exercises in this tutorial cover the steps required for simulation of single vector Gateway cloning.

The fourth and fifth exercises cover simulation of multiple Gateway cloning.

Gateway Cloning Handbook

Roger L. Lundblad, Fiona Macdonald



Gateway Cloning Handbook:

Handbook of Biochemistry and Molecular Biology Roger L. Lundblad, Fiona Macdonald, 2018-06-14 Edited by renowned protein scientist and bestselling author Roger L Lundblad with the assistance of Fiona M Macdonald of CRC Press this fifth edition of the Handbook of Biochemistry and Molecular Biology gathers a wealth of information not easily obtained including information not found on the web Presented in an organized concise and simple to use format this popular reference allows quick access to the most frequently used data Covering a wide range of topics from classical biochemistry to proteomics and genomics it also details the properties of commonly used biochemicals laboratory solvents and reagents An entirely new section on Chemical Biology and Drug Design gathers data on amino acid antagonists click chemistry plus glossaries for computational drug design and medicinal chemistry Each table is exhaustively referenced giving the user a quick entry point into the primary literature New tables for this edition Chromatographic methods and solvents Protein spectroscopy Partial volumes of amino acids Matrix Metalloproteinases Gene Editing Click Chemistry

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

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occurring with this convergence if they want to be the ones providing end users with new and efficient services that are as cost effective as they are innovative To provide researchers and technicians with the tools they need to optimize their role in this communication revolution the IP Multimedia Subsystem IMS Handbook presents all the technical aspects of the IMS needed to support the growth of digital traffic and the implementation of underlying networks This guide covers everything from basic concepts to research grade material including the future direction of the architecture Organized in three sections the book brings together the technical savvy of 50 pioneering experts from around the world providing complete coverage of relevant concepts technologies and services Learn How IMS Will Speed Innovation Filling the gap between existing traditional telecommunications and Internet technologies IMS has led to an environment in which new services and concepts are introduced more quickly than ever before such as reusable service components and real time integration The technology promises to be a cost effective evolutionary path to future wireless and wireline convergences that will meet next generation service requirements

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Hoover's Handbook of American Business Hoovers Inc,2006-12

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