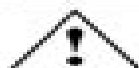


Gateway™ LR Clonase™ II Enzyme Mix

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.

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

(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

Guillaume Favre



Gateway Clonase Manual:

The Enigmatic Realm of **Gateway Clonase Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Gateway Clonase Manual** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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