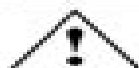


# Gateway™ LR Clonase™ II Enzyme Mix

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.

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

(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

**Julia Schneider**



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