

## Gateway<sup>®</sup> LR Clonase<sup>™</sup> II Enzyme Mix

Cat. No. 11791-020 Cat. No. 11791-100 Size: 20 reactions Size: 100 reactions Store at -20°C (non-frost-free freezer)

## Gateway® Technology

The Gateway® Technology is a universal cloning method that takes advantage of the site-specific recombination properties of bacteriophage lambda (1) to provide a rapid and highly efficient way to move DNA sequences into multiple vector systems. The Gateway® Technology is schematically represented below.

attB1-gene- $attB2 \times attP1$ -ccdB- $attP2 \Leftrightarrow attL1$ -gene- $attL2 \times attR1$ -ccdB-attR2 (expression clone) (pDONR $^{\circ}$ ) (entry clone) (destination vector)

The  $attB \times attP$  reaction is mediated by Gateway® BP Clonase™ II enzyme mix; the  $attL \times attR$  reaction is mediated by Gateway® LR Clonase™ II enzyme mix. ccdB is the F plasmid-encoded gene that inhibits growth of E. coli (2,3) and "gene" represents any DNA segment of interest (e.g. PCR product, cDNA, genomic DNA).

## Description

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) (1), 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.

Components Supplied	20 rxns	100 rxns
Gateway® LR Clonase™ II Enzyme Mix	40 µl	200 µl
Proteinase K Solution (2 μg/μl)	40 µl	200 µl
pENTR™-gus Positive Control (50 ng/μl)	20 µl	20 µl

#### Quality Control

LR Clonase<sup>™</sup> II enzyme mix is functionally tested in a 1 hour recombination reaction followed by a transformation assay.

Part No. 11791.II.pps

Rev. Date: 31 January 2011

This product is distributed for laboratory research only. CAUTION: Not for diagnostic use. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

For technical questions about this product, call the Invitrogen Tech-Line U.S.A. 800 955 6288

# **Gateway Clonase Ii Manual**

Shasha Hu



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