

Figure 2. GATEWAY Cloning Technology as an operating system for cloning and subcloning DNA. Genes are transferred between vectors easily using LR or BP reactions.

2.1 Recombination Reactions of the GATEWAY Cloning System

Two reactions constitute the GATEWAY Cloning Technology (Figure 2, Table 1). The LR Reaction is a recombination reaction between an Entry Clone and a Destination (pDEST**) Vector, mediated by a cocktail of recombination proteins, to create an Expression Clone. It is used to move the sequence of interest to one or more Destination Vectors in parallel reactions. The BP Reaction is a recombination reaction between an Expression Clone (or an atf8-flanked PCR product) and a Donor (pDONR**) Vector to create an Entry Clone.

Table 1. Summary of reactions and nomenclature.

Reaction	Reacting Sites	Catalyzed by	Product	Product
LR Reaction	ant. x ann	LR CLONASE TM Enzyme Mix	Expression Clone	att81-gene-att82
BP Reaction	att9 x attP	BP CLONASE Enzyme Mix	Entry Clone	attL1-gene-attL2

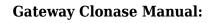
The recombination reactions are equivalent to concerted, highly specific, cutting and ligation reactions. The reactions are conservative, i.e., there is no net synthesis or loss of nucleotides. The DNA segments that flank the recombination sites are merely switched. The recombination (att) sites of each vector comprise a hybrid sequence, donated by the sites on the parental vectors. The recombination can occur between DNAs of any topology (supercoiled, linear, or relaxed), although efficiency varies.

2.1.1 The GATEWAY LR Cloning Reaction

The LR reaction is used to create an Expression Clone (Figure 3). The recombination proteins cut to the left and right of the gene within the art. sites in the Entry Clone and ligate it to the corresponding affR site in the Destination Vector, creating an Expression Clone. The resultant 25-bp affB sites (aff81 on the left (N-

Gateway Clonase Manual

Chao Zhang



Decoding Gateway Clonase Manual: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gateway Clonase Manual**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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