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Retroviral Integrase Protein and Intasome Nucleoprotein Complex Structures

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Abstract

Retroviral replication proceeds through the integration of a DNA copy of the viral RNA genome into the host cellular genome, a process that is mediated by the viral integrase (IN) protein. IN catalyzes two distinct chemical reactions: 3'-processing, whereby the viral DNA is recessed by a di- or trinucleotide at its 3'-ends, and strand transfer, in which the processed viral DNA ends are inserted into host chromosomal DNA. Although IN has been studied as a recombinant protein since the 1980s,

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