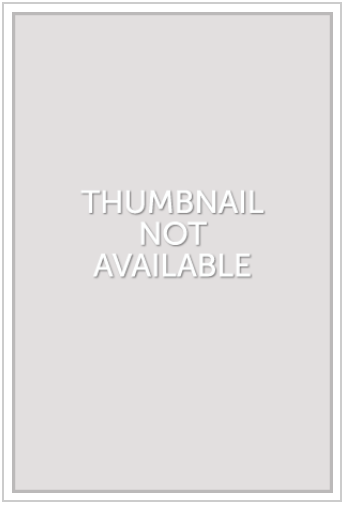

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DNA Clamp

By Iustinus T Avery

B O D - Books On Demand Jun 2010, 2010. Taschenbuch. Book Condition: Neu. Neuware - Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. A DNA clamp, also known as a sliding clamp, is a protein fold that serves as a processivity-promoting factor in DNA replication. As a critical component of the DNA polymerase III holoenzyme, the clamp protein binds DNA polymerase and prevents this enzyme from dissociating from the template DNA strand. The clamp-polymerase protein-protein interactions are stronger and more specific than the direct interactions between the polymerase and the template DNA strand; because the rate-limiting step in the DNA synthesis reaction is the association of the polymerase with the DNA template, the presence of the sliding clamp dramatically increases the number of nucleotides that the polymerase can add to the growing strand per association event. The presence of the DNA clamp can increase the rate of DNA synthesis up to 1,000-fold compared with a nonprocessive polymerase. Englisch.

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