

## Interaction of Cdc2 with the Origin Recognition Complex at Origins of Replication in *Schizosaccharomyces Pombe*



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*Totally one of the better publication I have actually read through. It really is rally fascinating throgh studying time period. Its been printed in an extremely simple way and is particularly just following i finished reading through this ebook in which basically modified me, modify the way i think.*




***(Mrs. Maudie Weimann)***

## INTERACTION OF CDC2 WITH THE ORIGIN RECOGNITION COMPLEX AT ORIGINS OF REPLICATION IN SCHIZOSACCHAROMYCES POMBE



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GRIN Verlag Jul 2007, 2007. Taschenbuch. Book Condition: Neu. 210x148x3 mm. This item is printed on demand - Print on Demand Neuware - Research Paper from the year 2004 in the subject Biology - Genetics / Gene Technology, grade: 1,0, TU Bergakademie Freiberg, 34 entries in the bibliography, language: English, abstract: Eukaryotic DNA replication depends on the origin recognition complex (ORC) which is conserved from yeast to humans. Activity of replication factors including ORC is coordinated with the cell cycle progression to ensure that the entire genome is copied exactly once per cell cycle. This coordination depends on Cdc2 (cell division cycle 2), also highly conserved across all eukaryotes, which binds to the origin recognition complex. This book presents research results of the chromatin cross-linking immuno-precipitation (ChIP) procedure to determine (1) if Cdc2 kinase is localized at DNA replication origin as predicted by current models, (2) when this happens and (3) what the genetic requirements for that localization are. Furthermore the binding ability of different ORC and cdc2 mutants was tested, as well as the influence of Cdc18 on the ORC-Cdc2 interaction. This is particularly interesting, since those regulations ensure genome stability. Studying these pathways in yeast gives us insights into the mechanisms that are critical in mammalian cells to prevent cancer. 44 pp. Englisch.

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