

RNA聚合酶的模板特异性

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摘要 研究了多种动物、植物、酵母及细菌RNA聚合酶对不同DNA模板的转录活性, 结果表明, 各种RNA聚合酶都表现出对同源模板比对异源模板具有更高的转录活性; 对热变性DNA比对天然DNA有更高的转录活性。用混合DNA作为转录模板时, 玉米RNA聚合酶B和615小鼠RNA聚合酶B都能优先转录其同源模板。

关键词

分类号

Template Specificity of RNA polymerase

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Abstract

 The activities of several animal, plant, yeast as well as bacterial RNA polymerases on different template DNAs were studied. Results indicated that RNA polymerases gave higher activities on their homologous template than on heterologous template and that RNA polymerases gave higher activities on heat denatured DNA than on native, DNA. When mixed DNAs was served as template, both maize and 615 mouse RNA polymerases B preferentially transcribed their homologous DNA.

Key words

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