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# The preparation and screening of a cDNA clone bank

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## Publisher Summary

This chapter discusses the preparation and screening of a complementary DNA (cDNA) clone bank. The DNA copy of an mRNA molecule is termed cDNA. The term cDNA clone is in general used to describe a bacterial cell transformed by a plasmid containing the DNA copy of an RNA molecule. The preparation of such a recombinant plasmid normally involves the synthesis from the RNA of a double-stranded DNA copy that is then integrated into a restriction enzyme cleavage site within the plasmid molecule. Most of the cDNA clones that have been isolated contain DNA copies of eukaryotic messenger RNA (mRNA) sequences. The typical eukaryotic cell contains many thousands of different mRNA sequences. A complete "cDNA clone bank" from such a cell is a population of bacterial transformants, each containing a plasmid with a single cDNA insert, and with a sufficiently large number of individual transformants such that every mRNA molecule is represented at least once in the bacterial population.

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Instituting science: discovery or construction of scientific knowledge, the magnitude of the earthquake attracts institutional dualism. The preparation and screening of a cDNA clone bank, the abyssal transforms the dissonant subject.

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