

Recombinant DNA Methodology II

Edited by

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Recombinant DNA methods are powerful, revolutionary techniques that allow the isolation of single genes in large amounts from a pool of thousands or millions of genes and the modification of these isolated genes or their regulatory regions for reintroduction into cells for expression at the RNA or protein levels. These attributes lead to the solution of complex biological problems and the production of new and better products in the areas of medicine, agriculture, and industry.

Recombinant DNA Methodology II, a volume in the *Selected Methods in Enzymology* series produced in benchtop format, contains a selection of key articles from Volumes 216, 217, and 218 of *Methods in Enzymology*. The essential and widely used procedures provided at an affordable price will be an invaluable aid to the graduate student and the researcher.

Key Features

Methods for

- DNA isolation and cloning
- Synthesizing complementary DNA (cDNA)
- Cleaving and manipulating DNA
- Selecting useful reporter genes
- Constructing vectors for cloning genes
- Constructing expression vectors
- Site-directed mutagenesis and gene disruption
- Identifying and mapping genes
- Transforming animal and plant cells
- Sequencing DNA
- Amplifying and manipulating DNA by PCR
- Detecting DNA-protein interaction



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