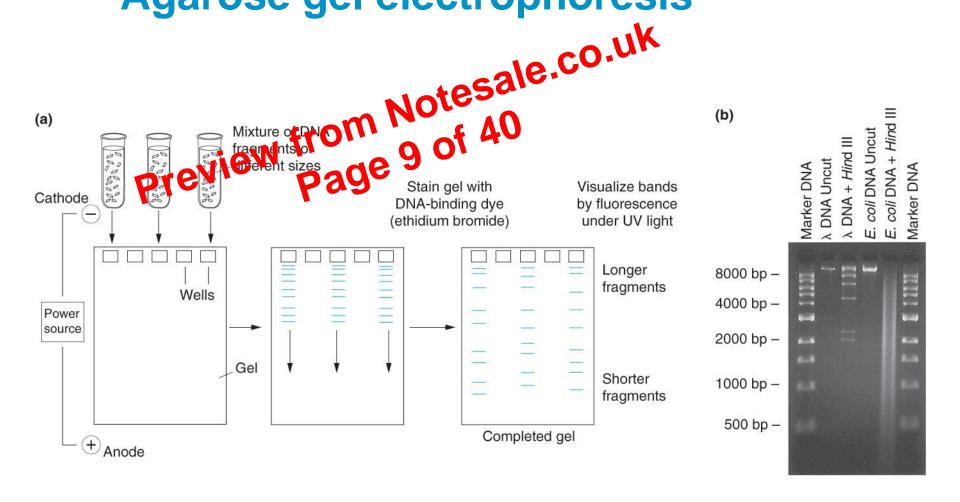
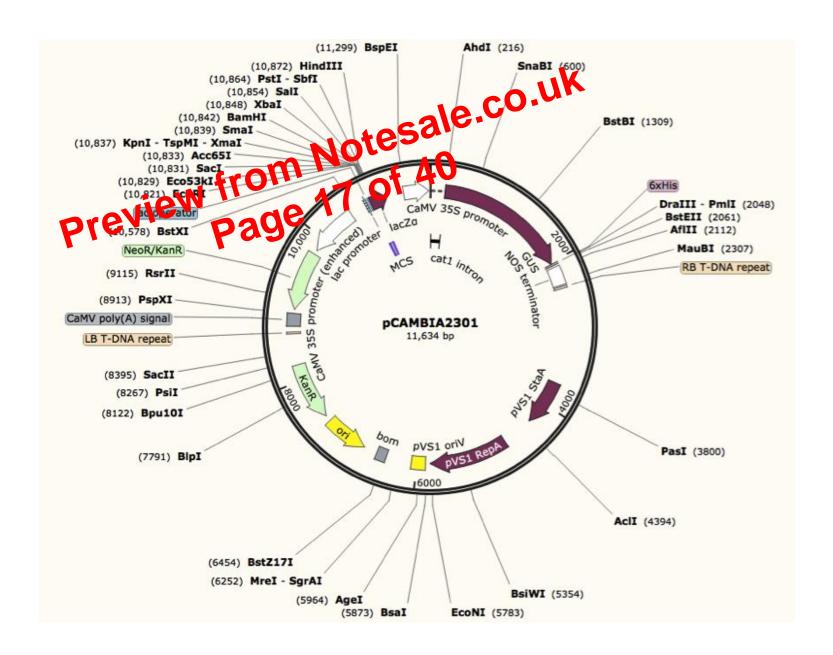
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Gene Technology

Agarose gel electrophoresis





1. Introduction to Recombinant DNA Technology and DNA Cloning

- Transformation of Bacterial Cells
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 - A process for inserting foreign DNA into bacteria
 - Treat bacterial cells with calcium chloride
 - Add plasmid DNA to cells chilled on ice
 - Heat the cell and DNA mixture
 - Plasmid DNA enters bacterial cells and is replicated and express their genes
 - electroporation
 - Apply brief pulse of high voltage electricity to create tiny holes in the bacteria cell wall that allow the DNA to enter

Introduction to Recombinant

- Technology and DNA Cloning
 Selection of recombinant bacteria after transformation
 selection page process designed to facilitate the
 - identification of recombinant bacteria while preventing the growth of non-transformed bacteria and bacteria that contain plasmid without foreign DNA
 - 1. Antibiotic selection plate transformed cells on plates containing different antibiotics to identify recombinant bacteria and non-transformed bacteria
 - Does not select for plasmid containing foreign DNA vs. recircularized plasmid

- -Some recombinates plasmids now contain hummingolfd DNAf 40

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 -Some recombinates plasmids now contain
- pred DNA Sture is added to bacteria that have been genetically engineered to accept it
- -The bacteria are plated on a type of agar that selects for the bacteria with recombinant plasmids
- -This results in the cloning of many hummingbird DNA fragments, including the β -globin gene