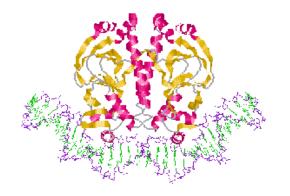


# Introduction to Recombinant DNA technology



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#### Outline of course

- The advent of gene cloning and the polymerase chain reaction
- What is gene cloning?
- What is PCR?
- Why gene cloning and PCR are so important



### What is gene cloning?

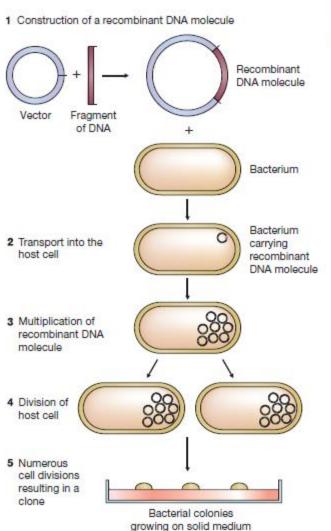


Figure 1.1

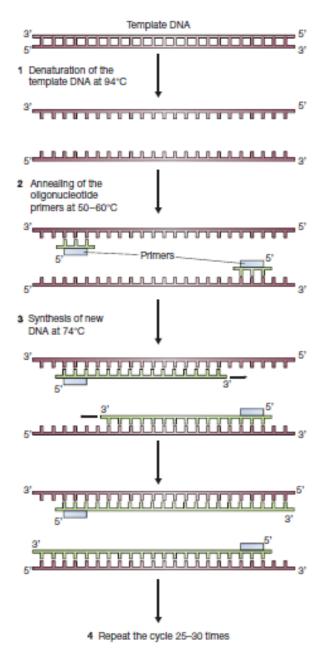
The basic steps in gene cloning.



### What is PCR?

Figure 1.2

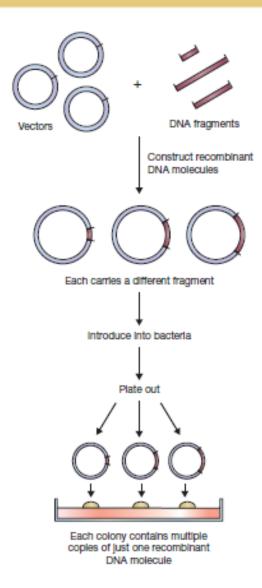
The basic steps in the polymerase chain reaction.





## Why gene cloning and PCR are so important

Figure 1.3
Cloning allows individual fragments of DNA to be purified.





## Why gene cloning and PCR are so important

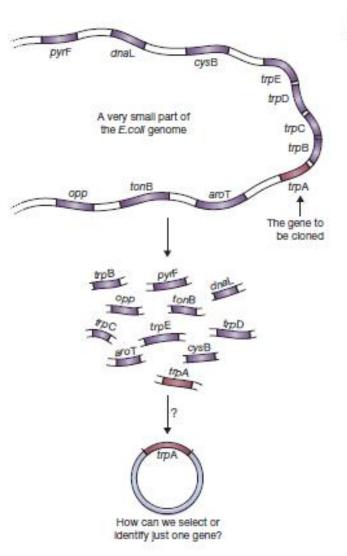


Figure 1.4
The problem of selection.