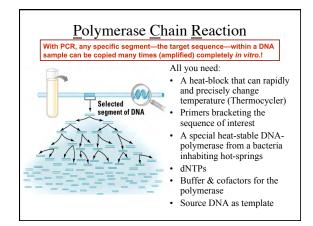
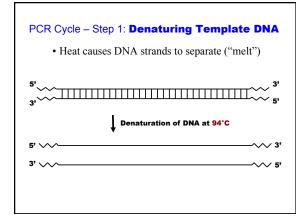


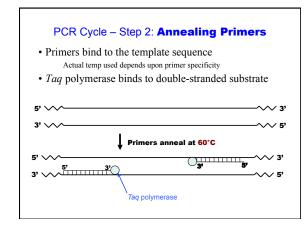


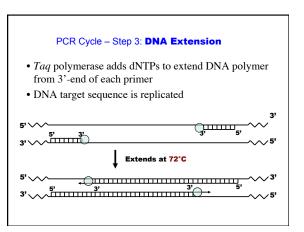
## What Is PCR?

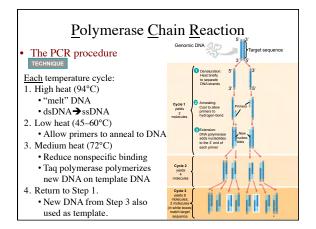
- Polymerase Chain Reaction
- DNA replication gone crazy in a test tube!
- Makes millions of copies of a specific target sequence from template DNA
- Uses heat-resistant *Taq* polymerase from *Thermus aquaticus*

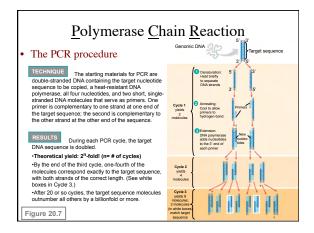


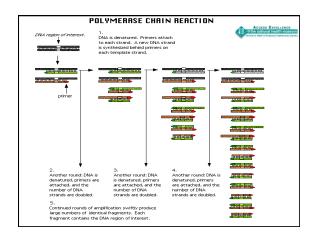


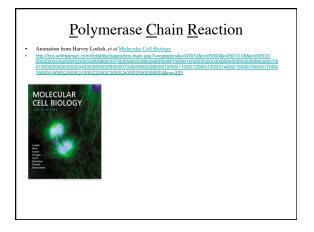


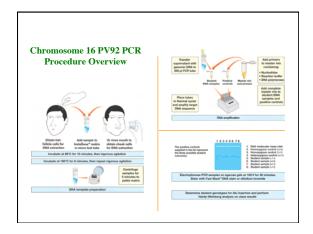


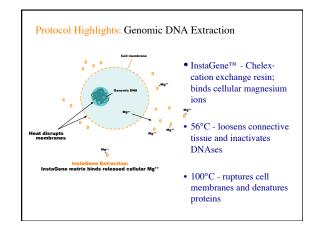


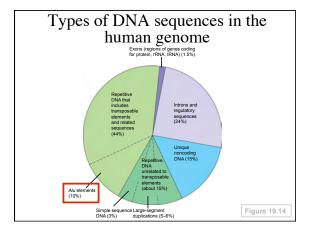












## **Alu Repeats**

- Classified as SINEs (Short Interspersed Repetitive Element) ~300 bp; highly conserved
- Mobilized by an RNA polymerase-derived intermediate (retroposition)
- Approx. 500,000 *Alu* copies per haploid genome, representing about 5% of the genome
- Named for the *Alu* I restriction site within the element

