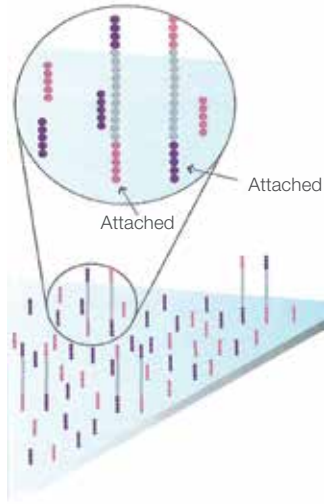
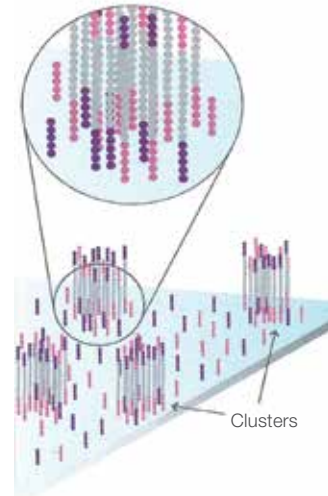


Figure 6: Denature the Double-Stranded Molecules



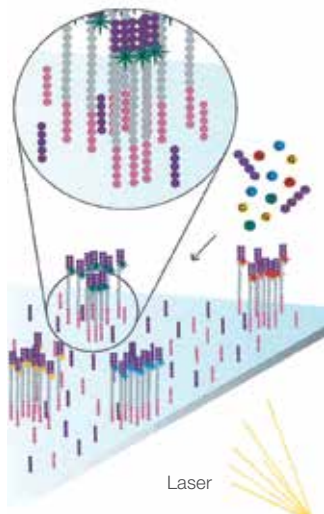
Denaturation leaves single-stranded templates anchored to the substrate.

Figure 7: Complete Amplification



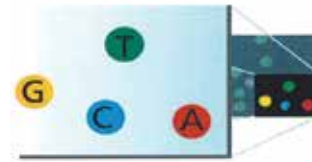
Several million dense clusters of double-stranded DNA are generated in each channel of the flow cell.

Figure 8: Determine First Base



The first sequencing cycle begins by adding four labeled reversible terminators, primers, and DNA polymerase.

Figure 9: Image First Base



After laser excitation, the emitted fluorescence from each cluster is captured and the first base is identified.

AAAGAATGATAACAGTAAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC
AATCAACGTACCGTAAACGAACGTATCAATTGAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC
AACGACGAAAAGAATGATAACAGTAAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC
TTAAGGTACCATTAAGAGCTACCGTCAACAGTAAACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC
TTAAGGATTGATAACAGTAAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC
AAGATTACTTGATCCACTGATTC AACGTAAAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC
AACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGATTACTTGATCCACTGATTC AACGTACCGTAAACGAACGTATCAATTGAGACTAAATATTAACGTACCATTAAAGAGCTACCGTCTTCTGTTAACCTTAAGATTACTTGATCCACTGATTC

