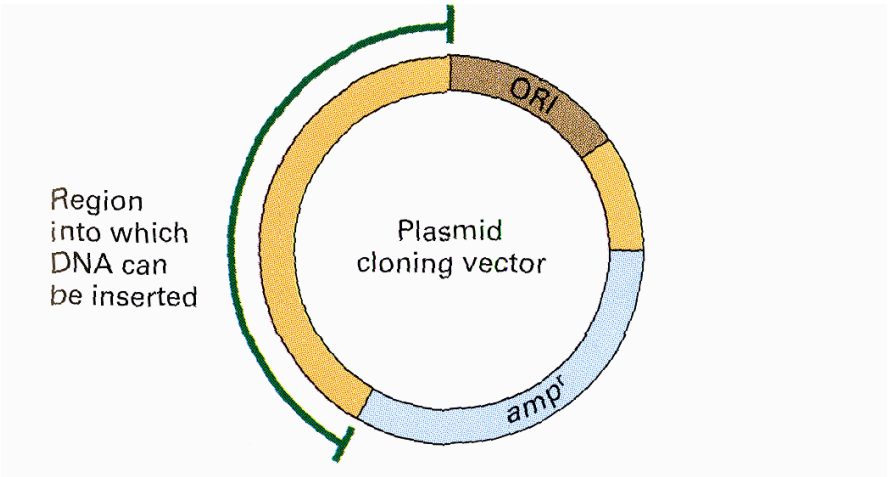
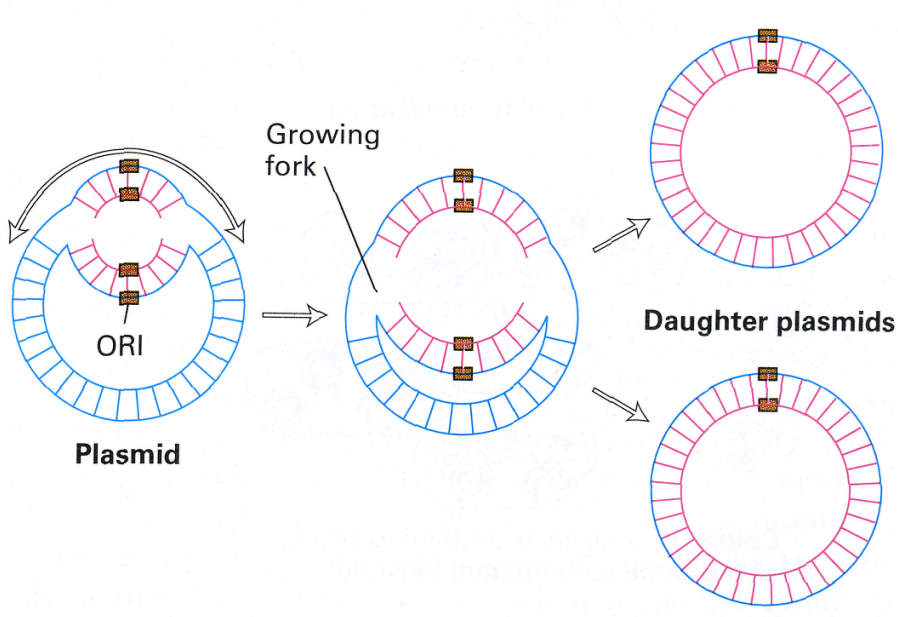
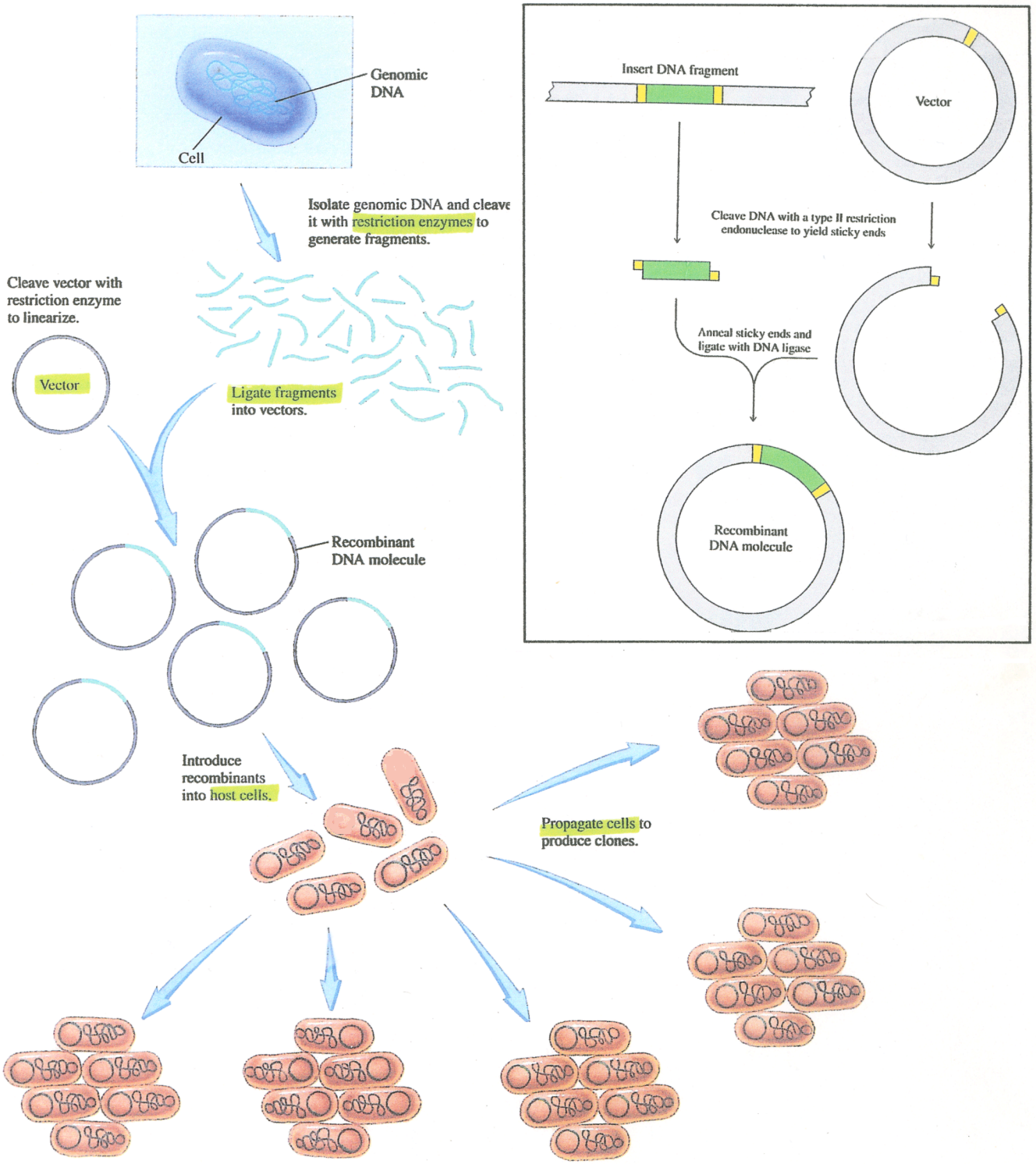
PLASMID CLONING VECTORS



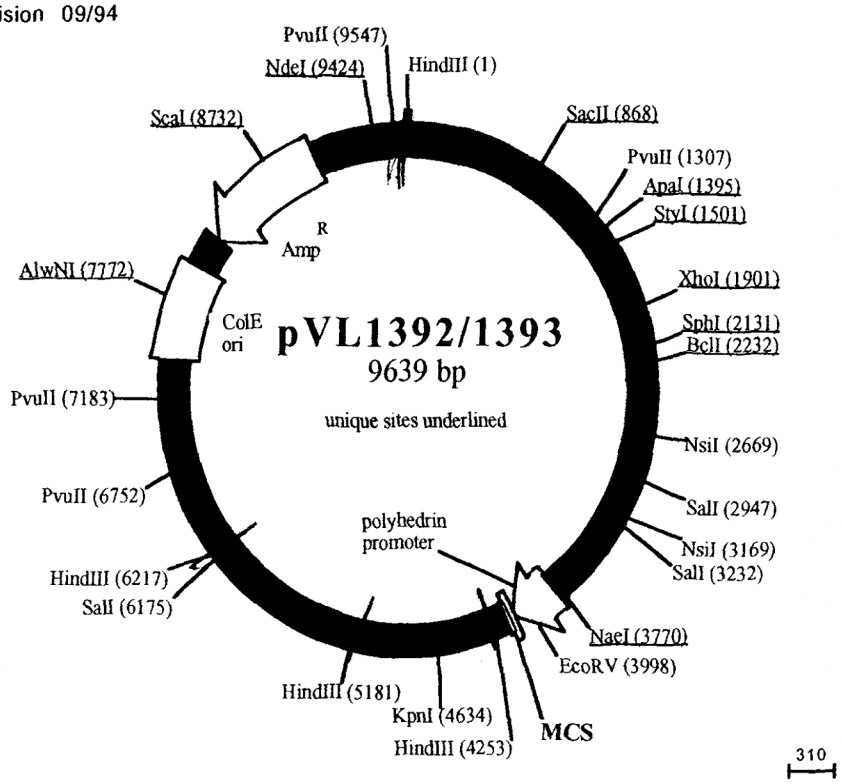


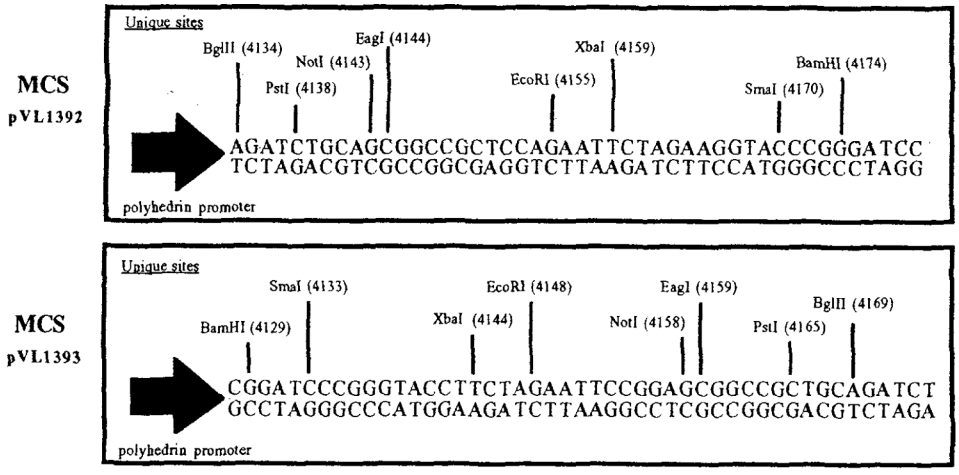
MOLECULAR CLONING



pVL1392/1393 Baculovirus Transfer Vector Set

Revision 09/94





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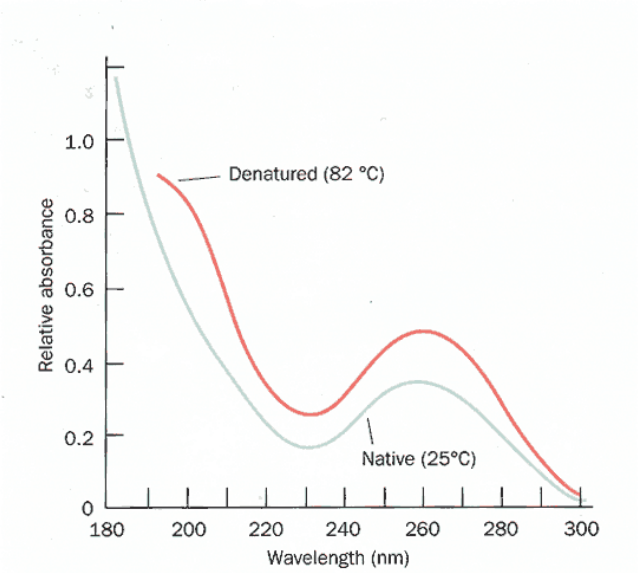
DNA DETERMINATION



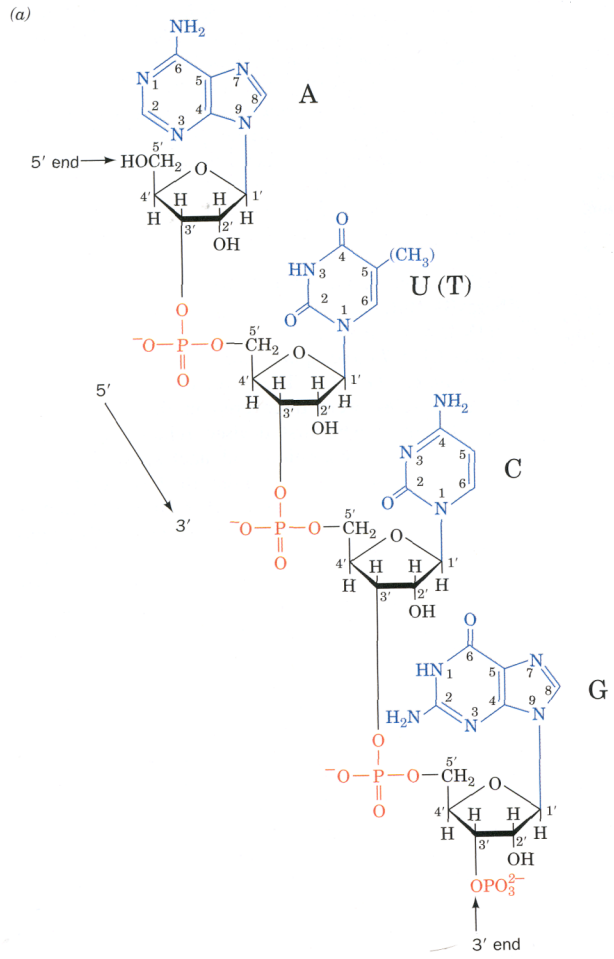
OD_{260} = 1 for 50 μg/ml dsDNA
40 μg/ml dsRNA
20 μg/ml ssDNA/RNA

OD_{280} = 1 for 1 mg/ml dsDNA

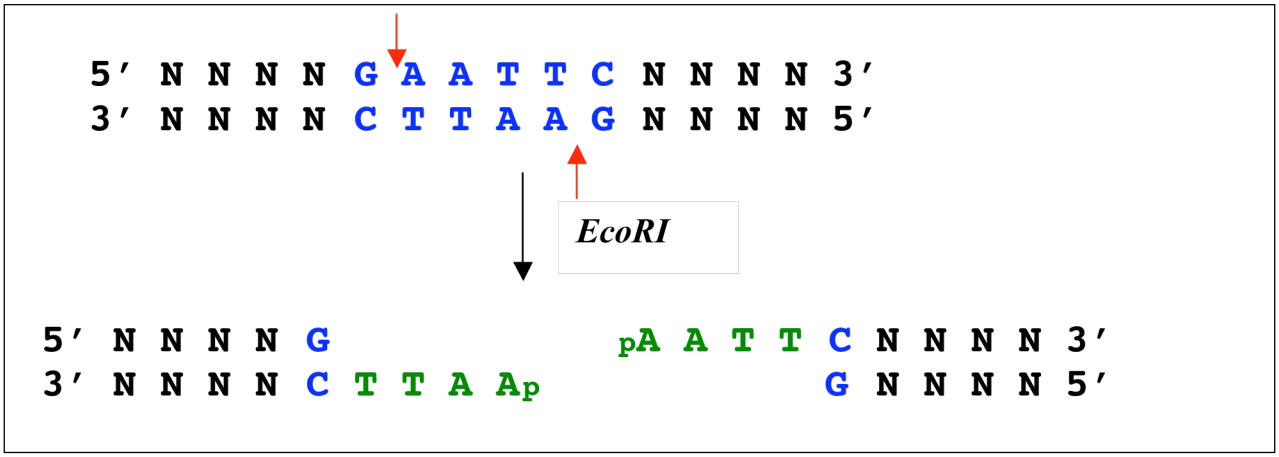
OD_{260} / OD_{280} = 1.65-1.85 for pure DNA
2.0 for pure RNA

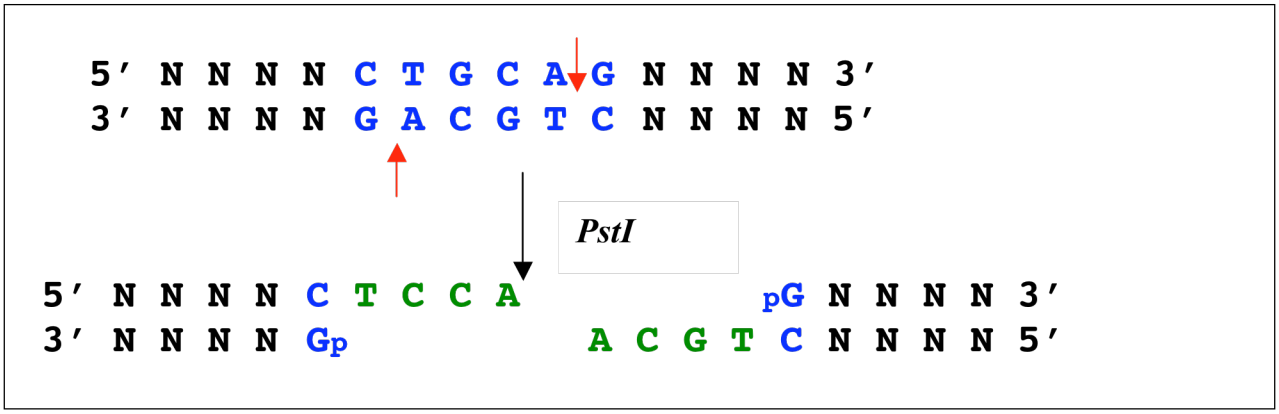
DNA concentration (μg/ml)= OD_{260} x ( ) x ( )

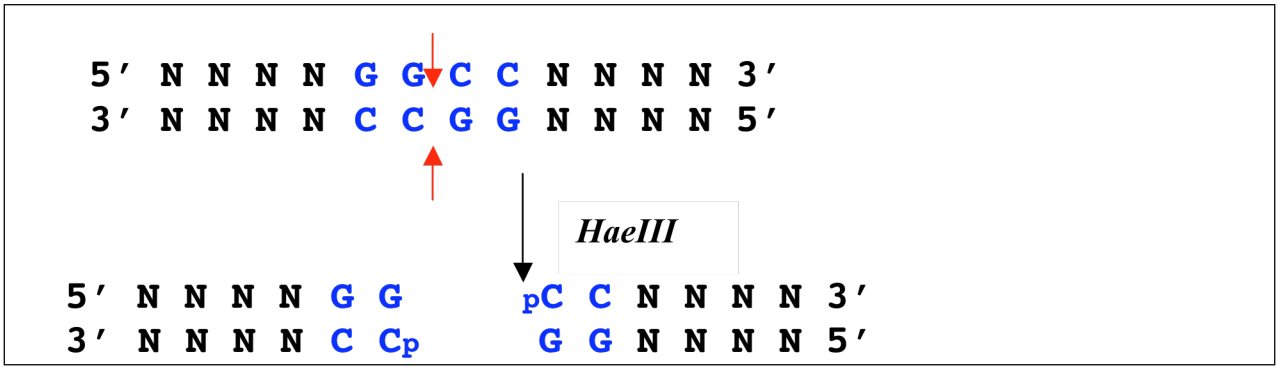
DNA STRUCTURE



RESTRICTION ENZYMES AND RESTRICTION DIGEST







RESTRICTION ENZYME STRUCTURE

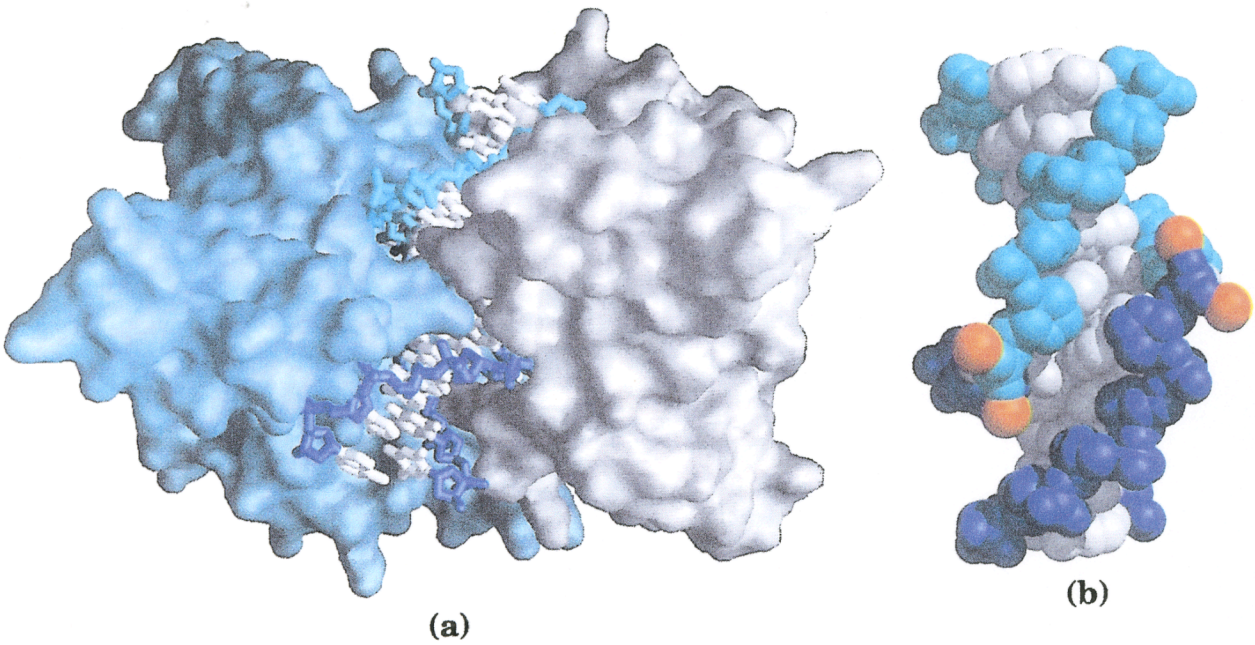


figure 29–2

Interaction of *Eco*RV restriction endonuclease with its target sequence. **(a)** The dimeric enzyme (with its two subunits in light blue and gray) is shown bound to the products of DNA cleavage at the sequence recognized by the EcoRV endonuclease. The DNA backbone is shown in two shades of blue to distinguish the segments separated by cleavage. **(b)** In this view, the protein has been removed and the DNA has been turned 180°. The cleavage points are staggered on the two DNA strands so the enzyme generates sticky ends. Bound magnesium ions, shown in orange, play a role in catalysis of the cleavage reaction.

POLYMERASE CHAIN REACTION