



Figure 7.12

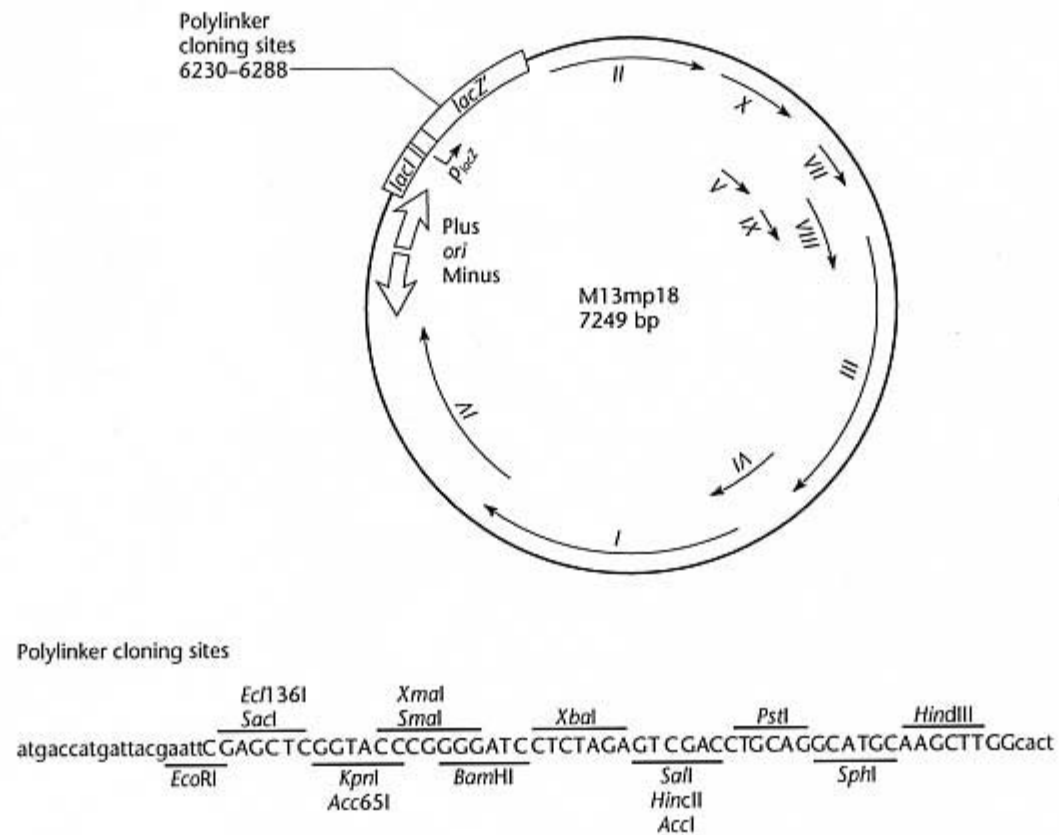


Figure 7.13

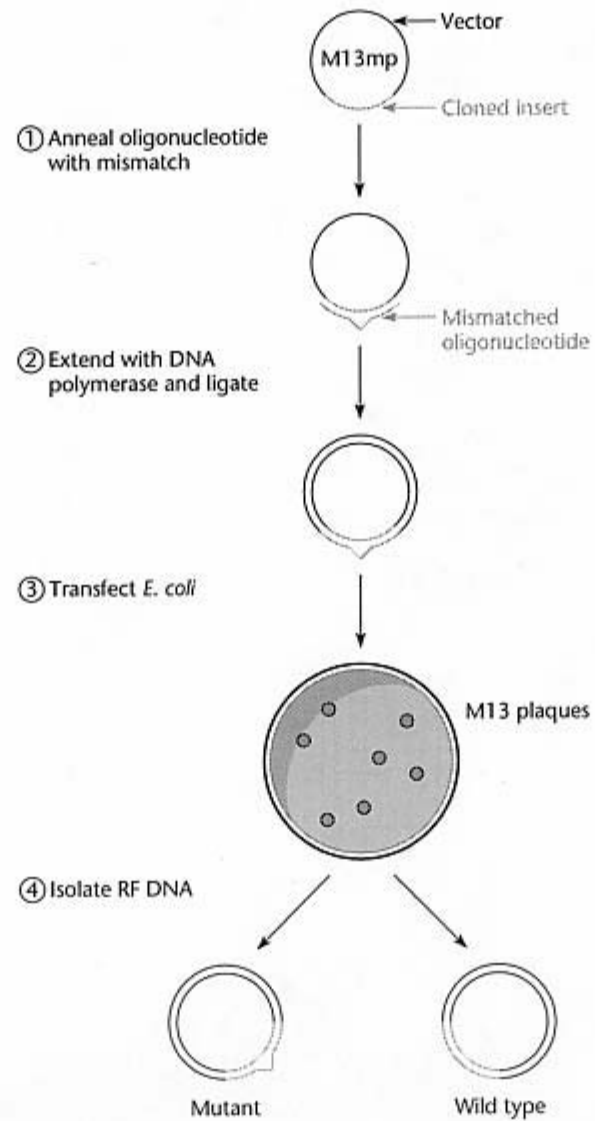




Figure 7.14

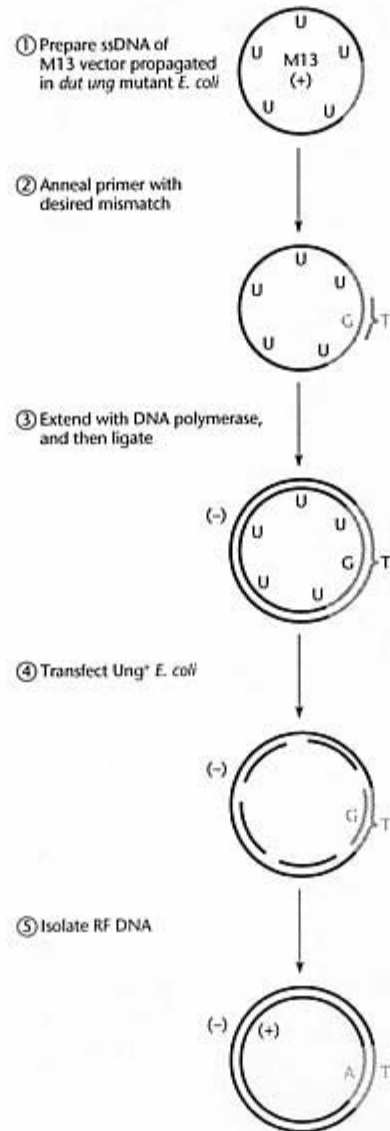


Figure 7.15

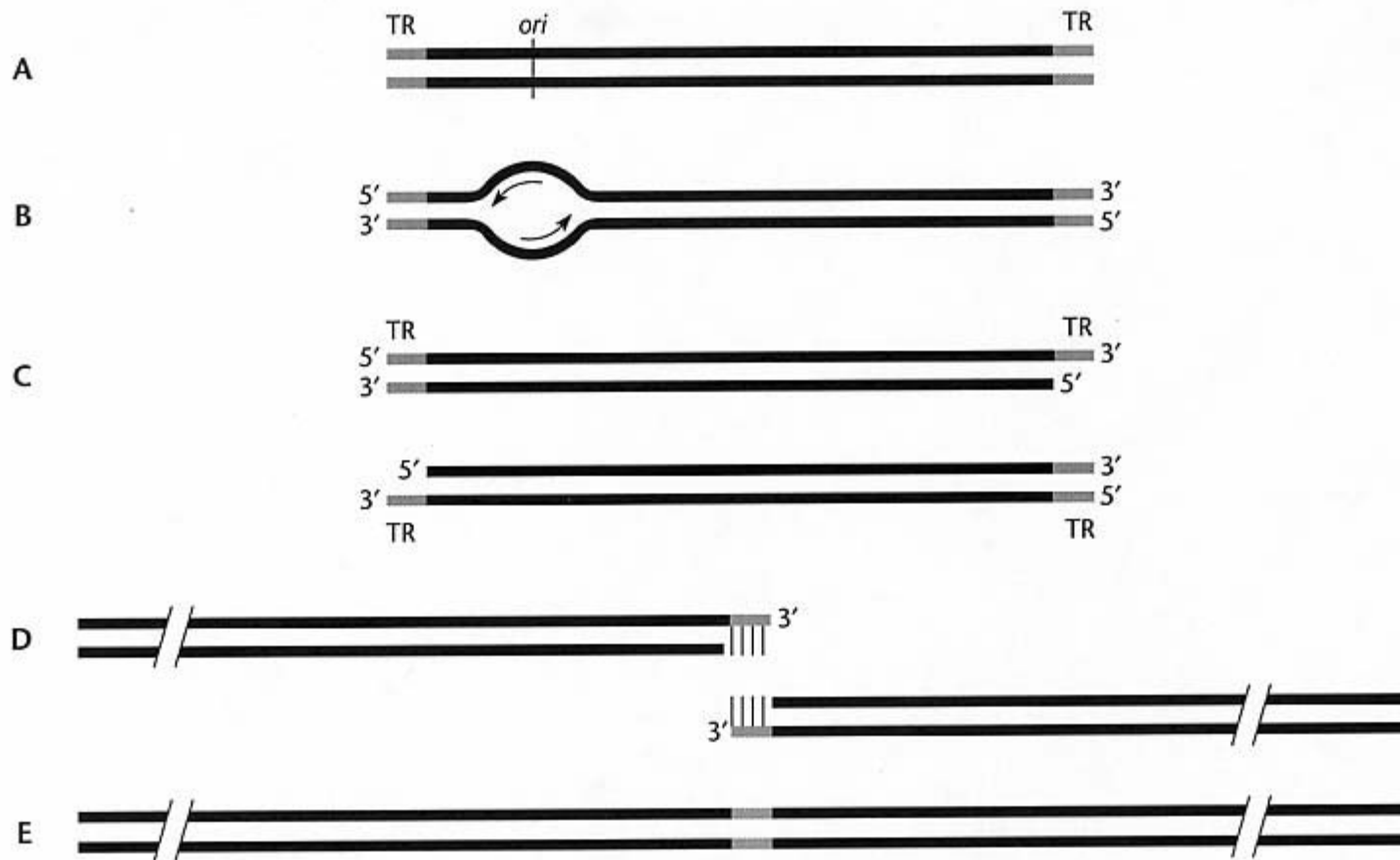


Table 7.1

TABLE 7.1 T4 gene products involved in replication and their homologs in <i>E. coli</i> and eukaryotes		
T4 gene product	<i>E. coli</i> function	Eukaryotic function ^b
Origin-specific replication		
gp43	Pol III α and ϵ	DNA pol α , β , γ
gp45	β sliding clamp	PCNA
gp44, gp62	Clamp loader	— ^a
gp41	Replicative helicase	MCM
gp59	DnaC	Edc6
gp61	Primase	—
gp39, gp52, gp60	GyrAB, TopoIV	TopoII
gp30	DNA ligase	—
Rnh	RNase H	—
Recombination-dependent replication		
UvsW	RecG	—
UvsX	RecA	Rad51p (yeast)
UvsY	—	Rad52 (yeast)
gp46, gp47	RecBCD, SbcCD	Rad50p, Mrellp (yeast)
gp32	SSB	RPA
gp59	PriA	—
gp49	RuvABC	—

^a—, not identified.

^b PCNA, proliferating-cell nuclear antigen; RPA, SV40 replication protein A.

Figure 7.16

Stage 1:
specific
origins



Stage 2:
no specific
origins;
recombination
dependent

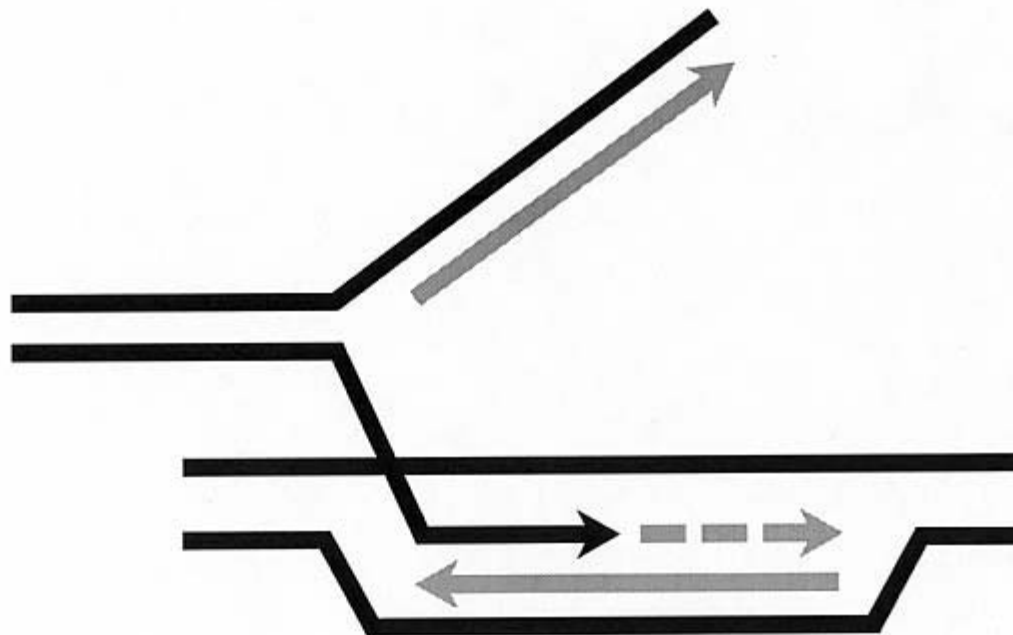




Figure 7.17

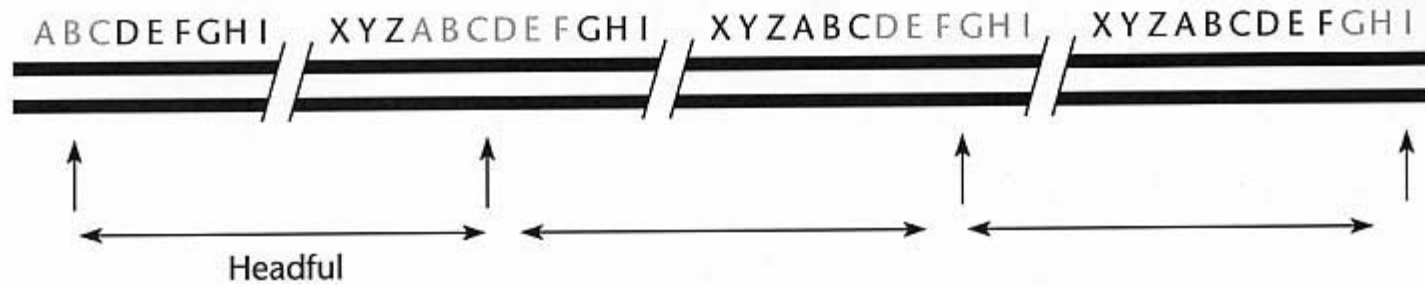


Figure 7.18

