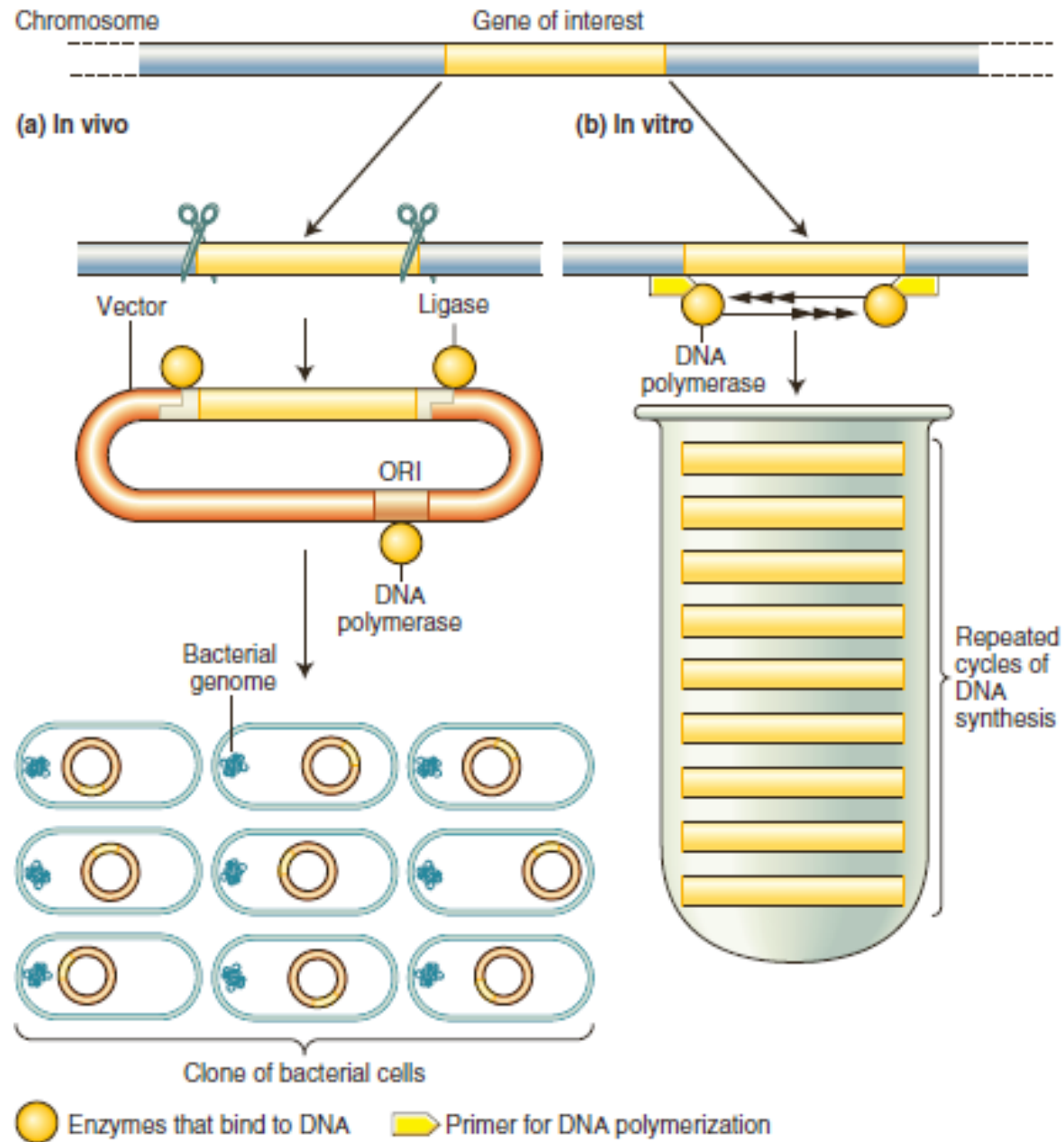
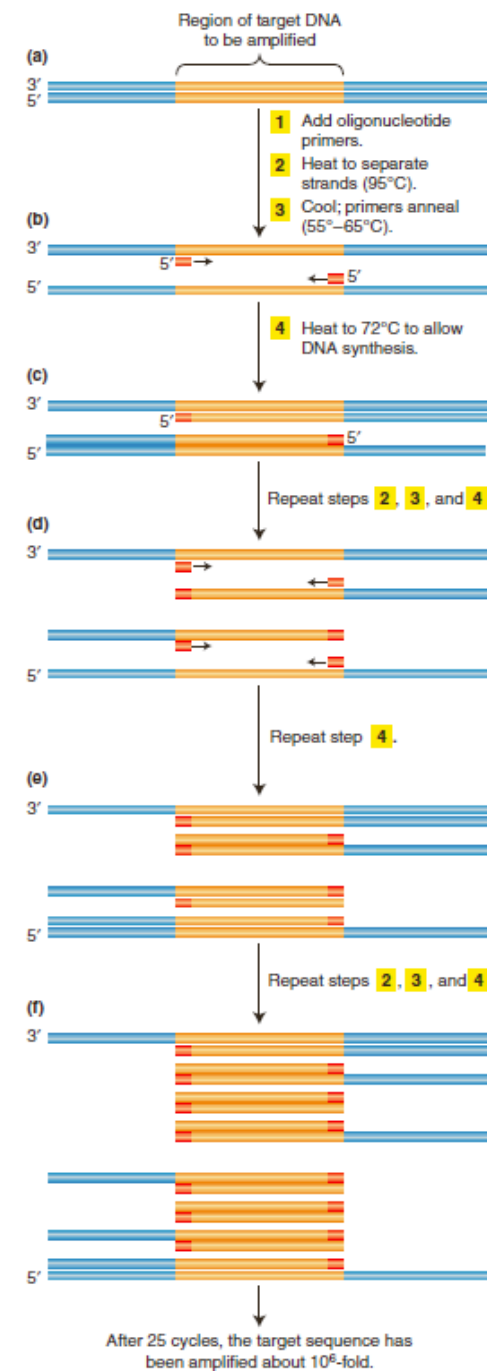
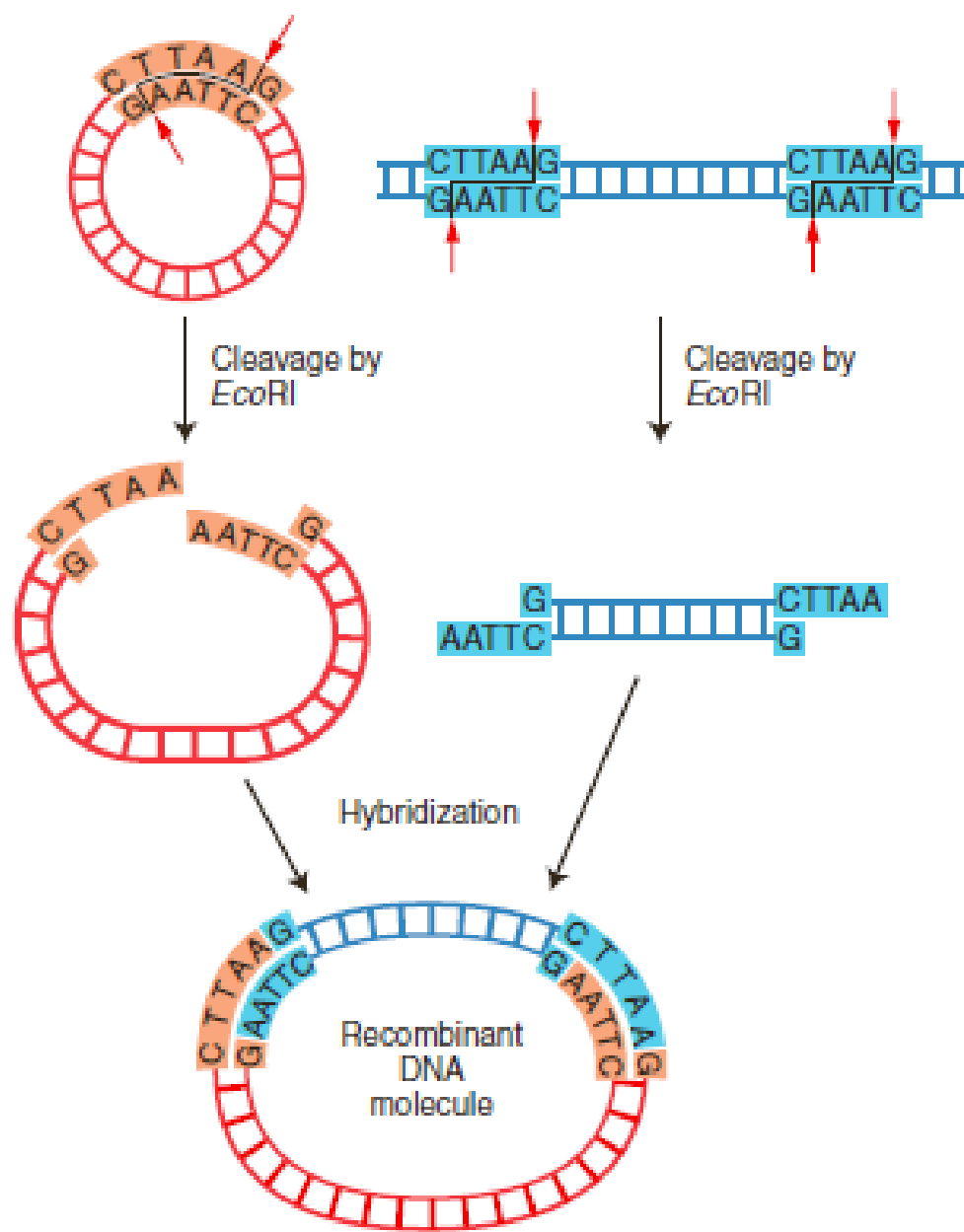
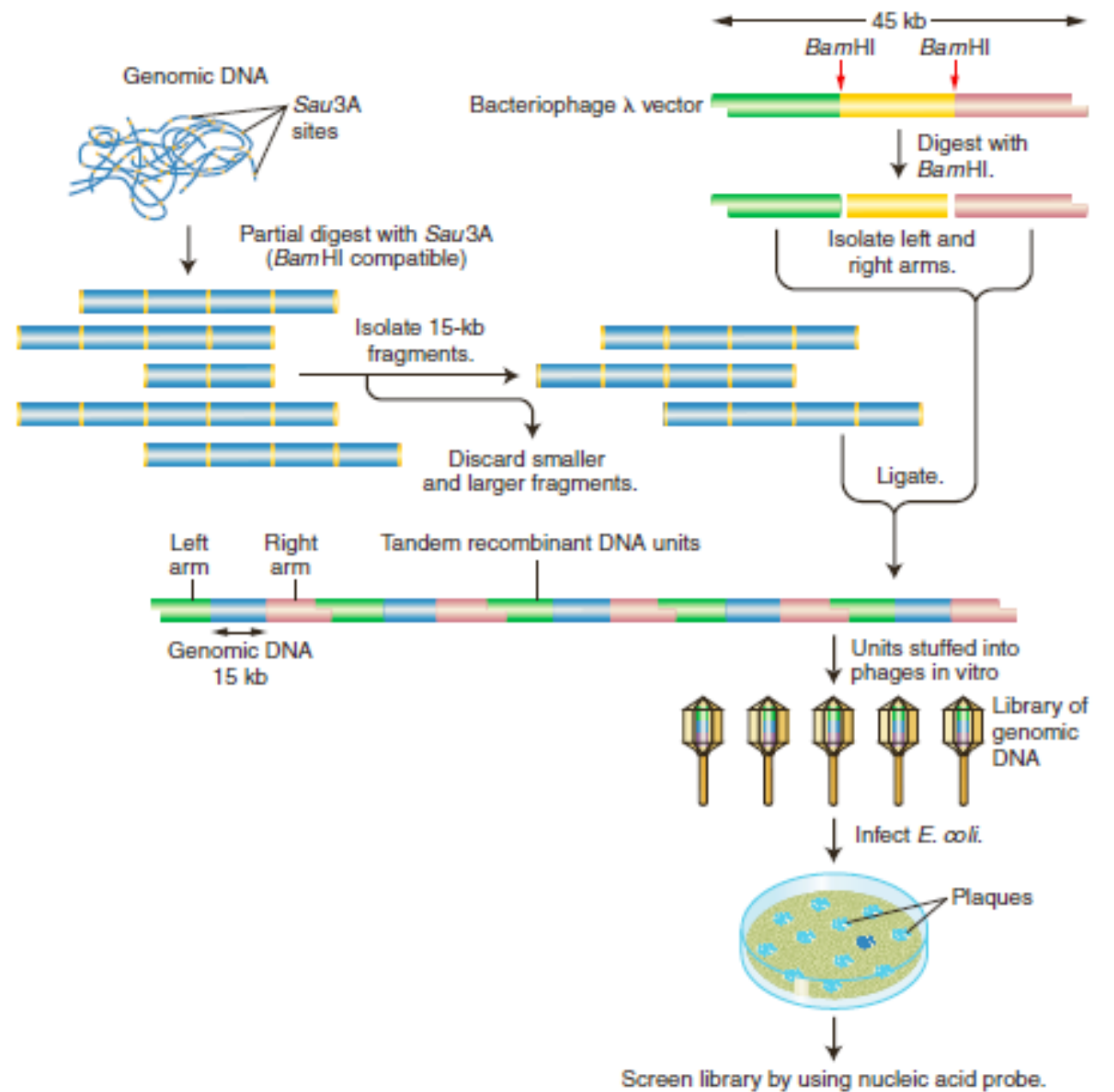
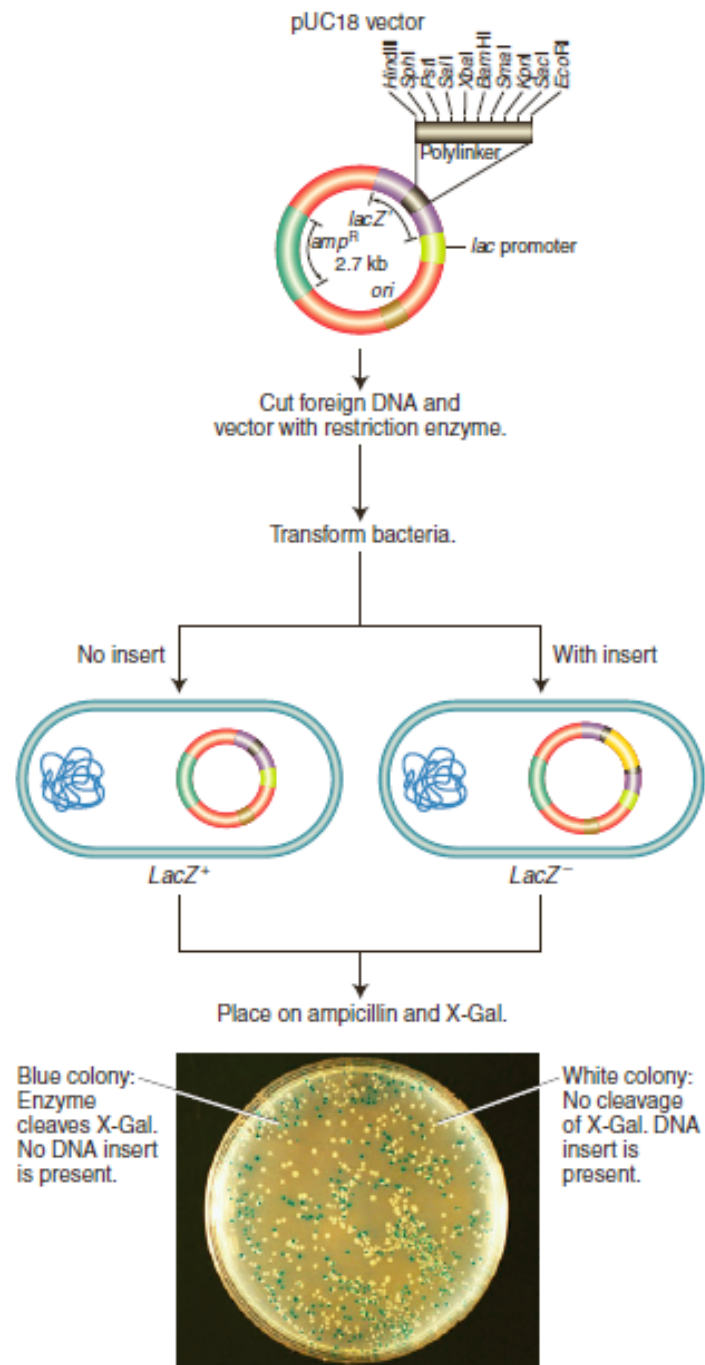
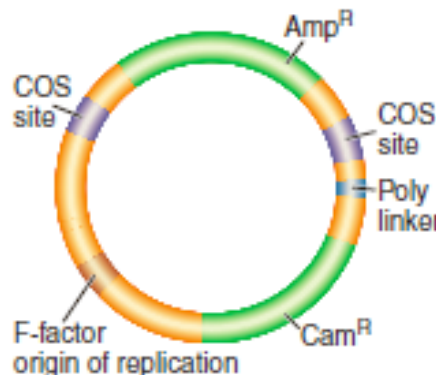
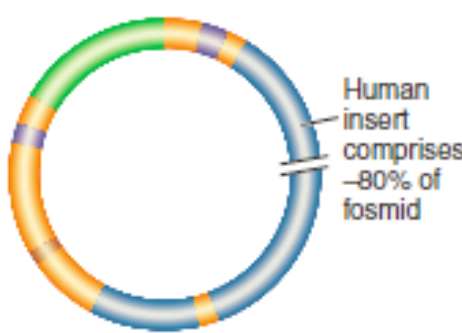
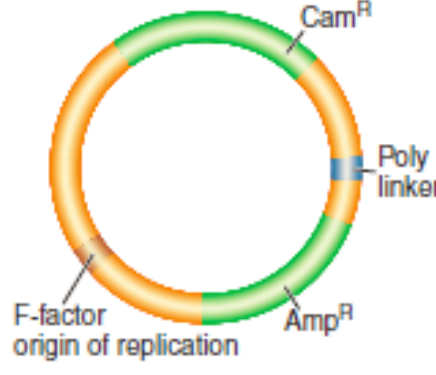
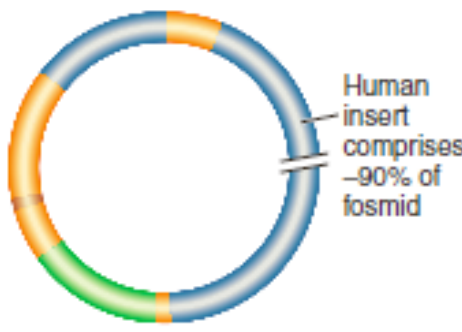


10. Gen İzolasyonu ve Manipülasyonu

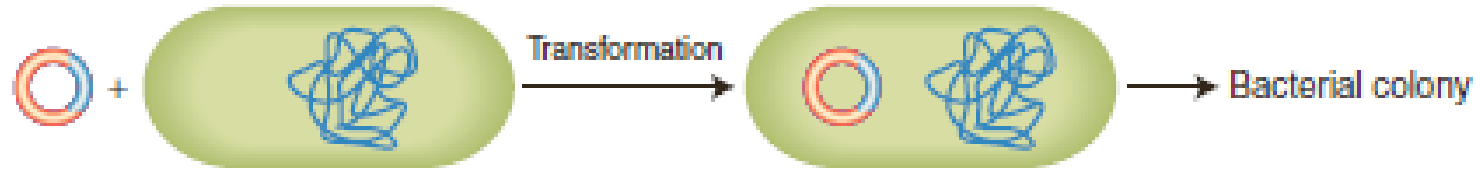




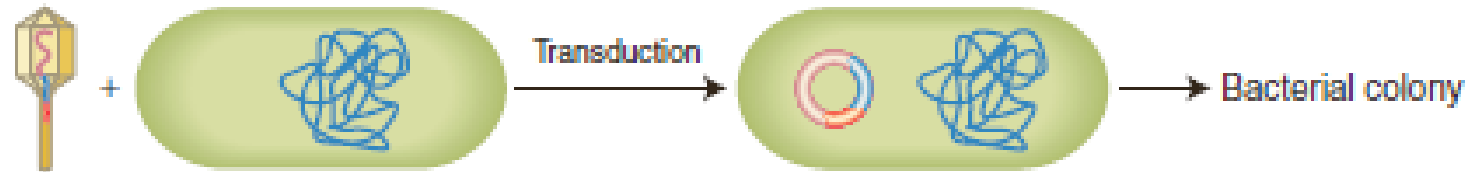


	Vector	Size of partially digested of genomic DNA	Large-insert clone	Copy Number	Number of clones for 1× human coverage
Fosmid	 <p>Amp^R COS site Poly linker Cam^R F-factor origin of replication</p>	35–45 kb	 <p>Human insert comprises ~80% of fosmid</p>	Single copy	~75,000
BAC	 <p>Cam^R Poly linker Amp^R F-factor origin of replication</p>	100–200 kb	 <p>Human insert comprises ~90% of fosmid</p>	Single copy	15,000–30,000

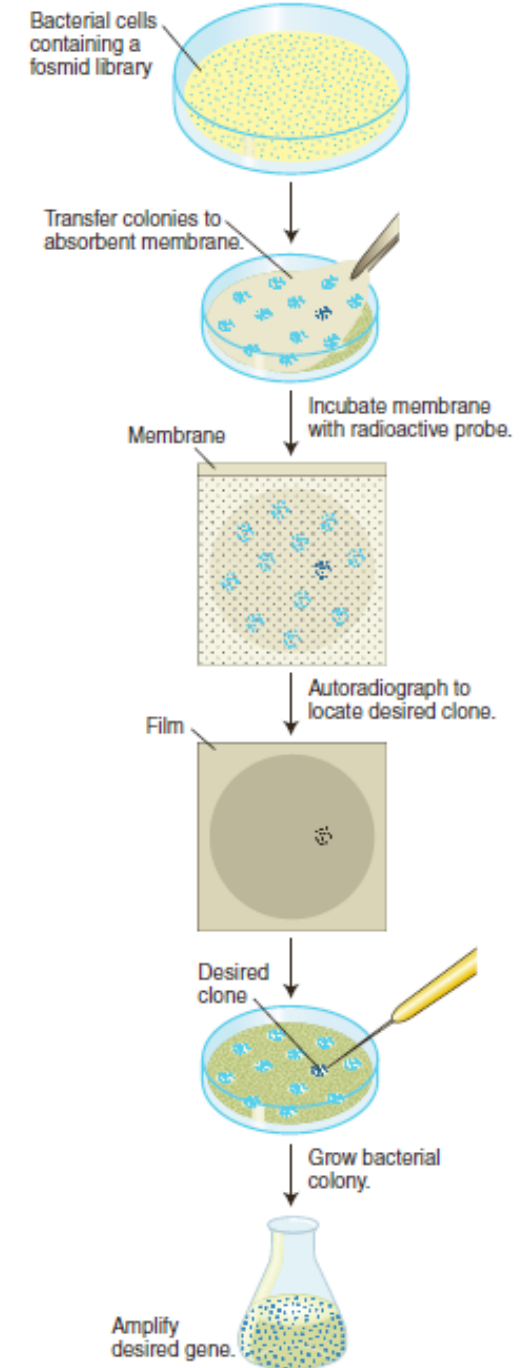
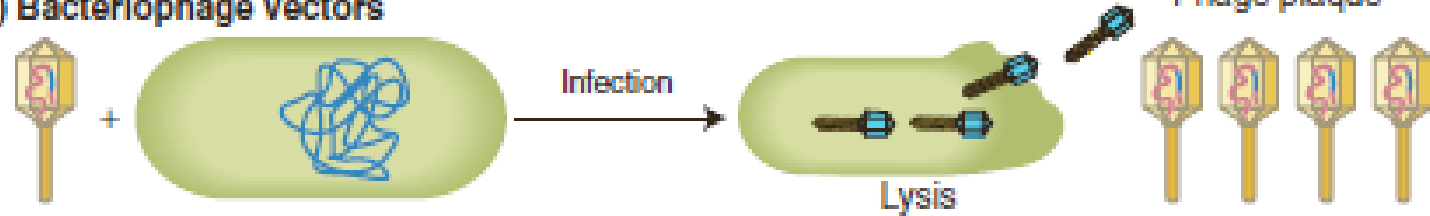
(a) Plasmids, BACs

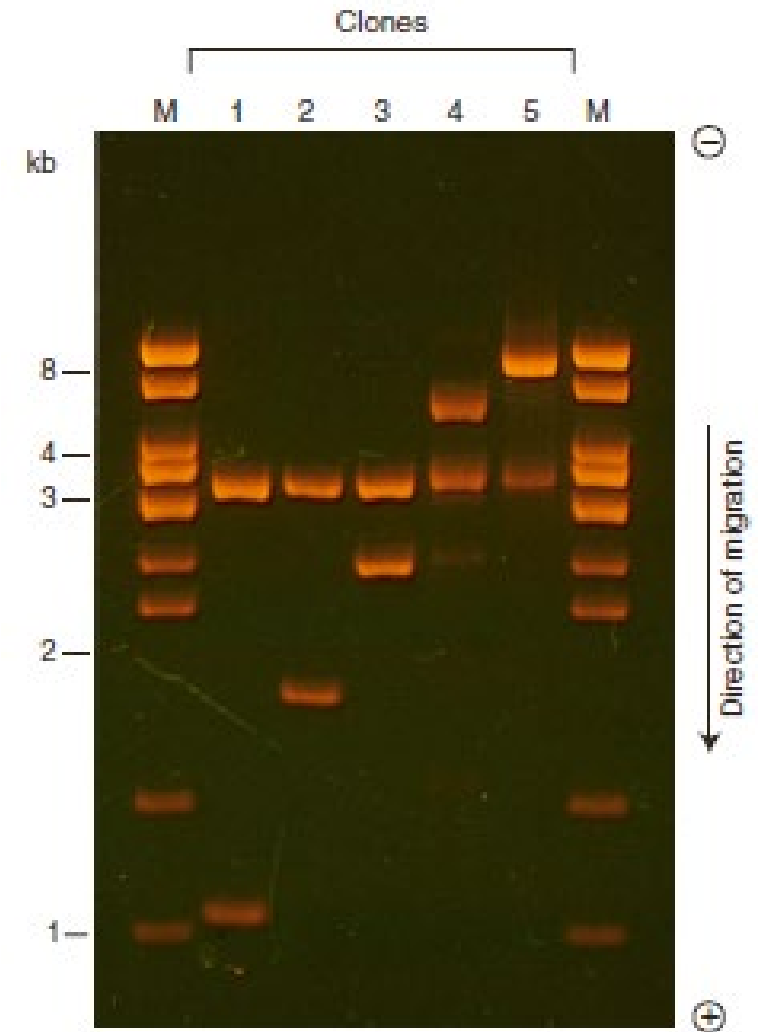
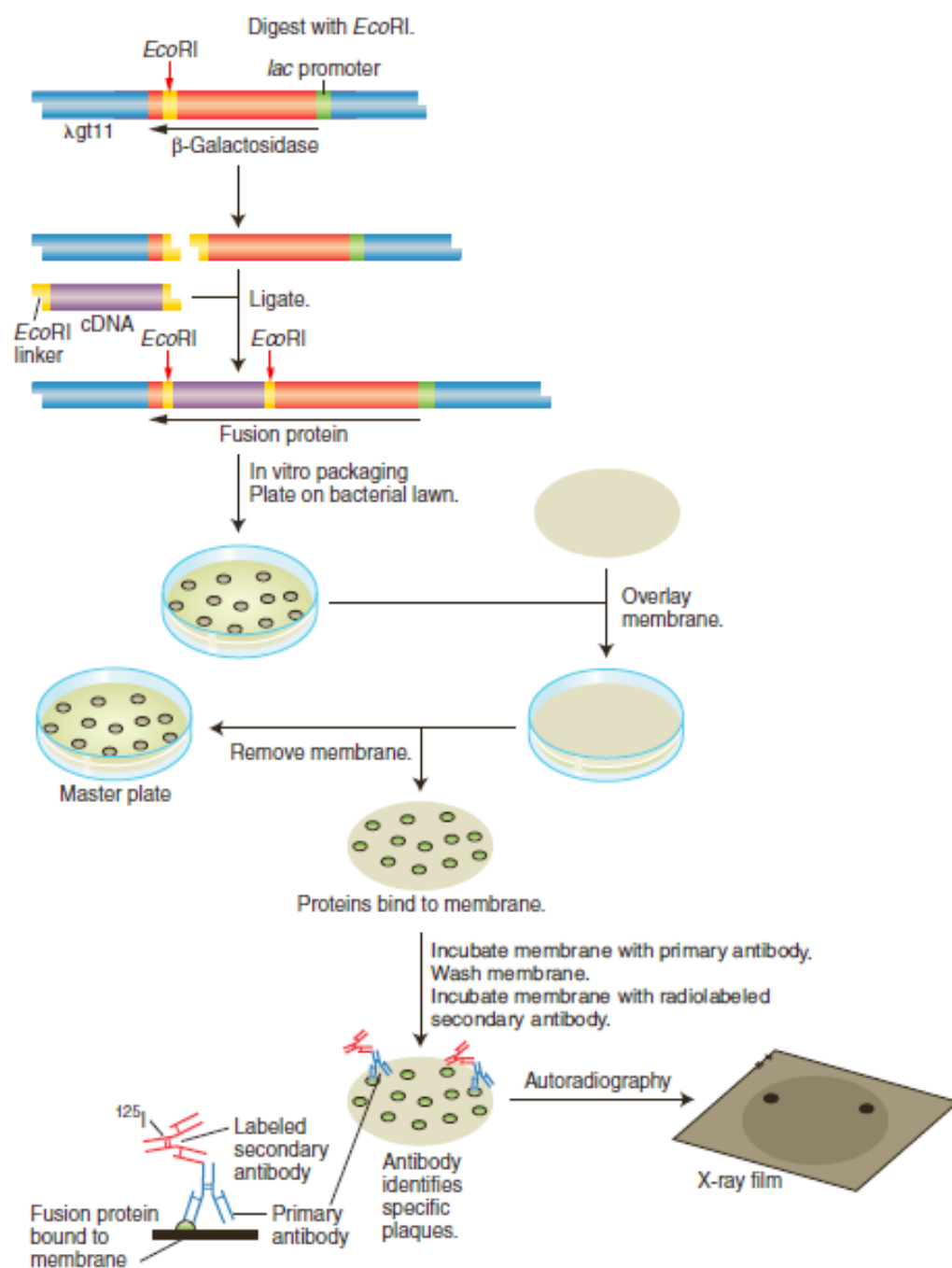


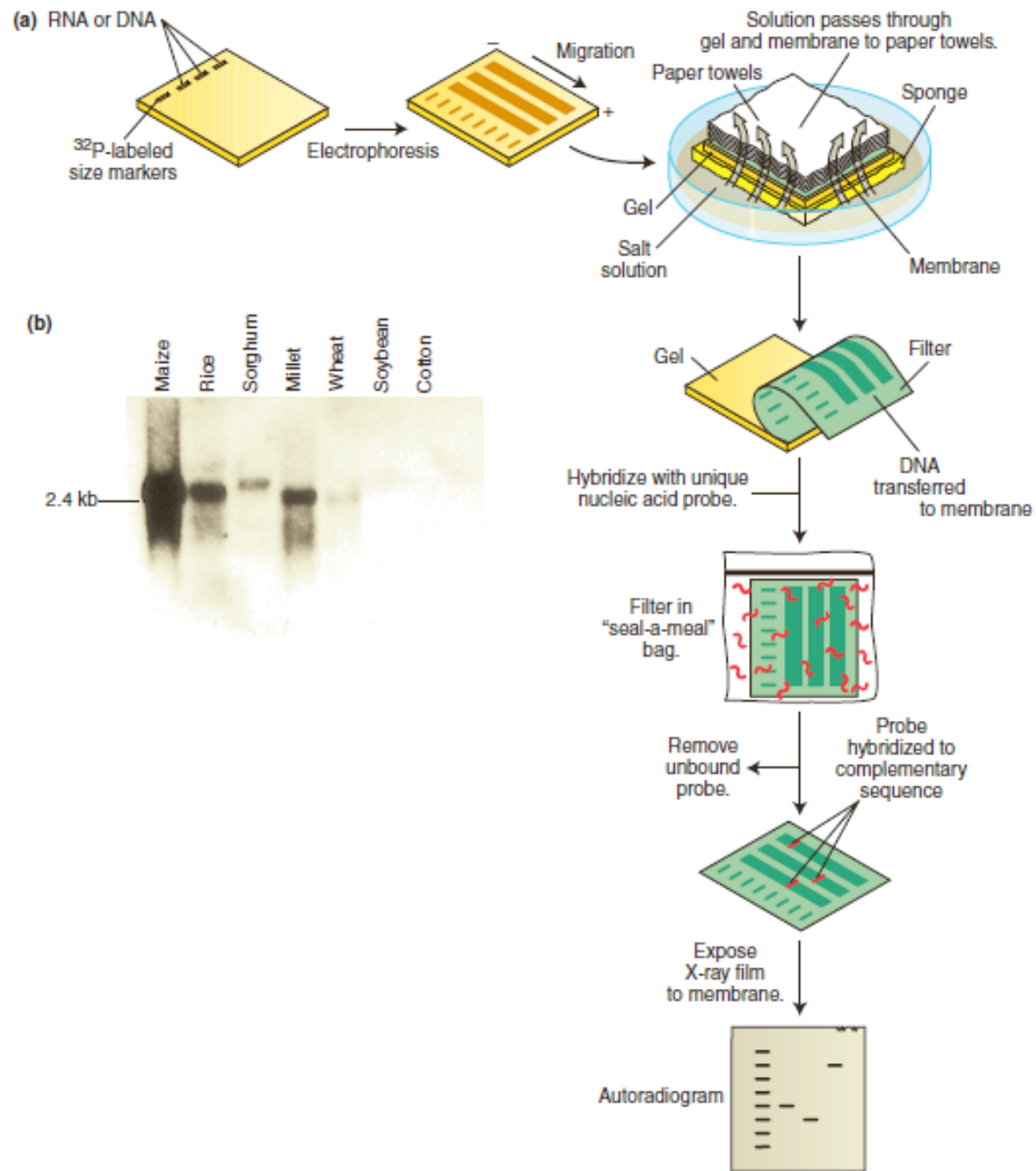
(b) Fosmids

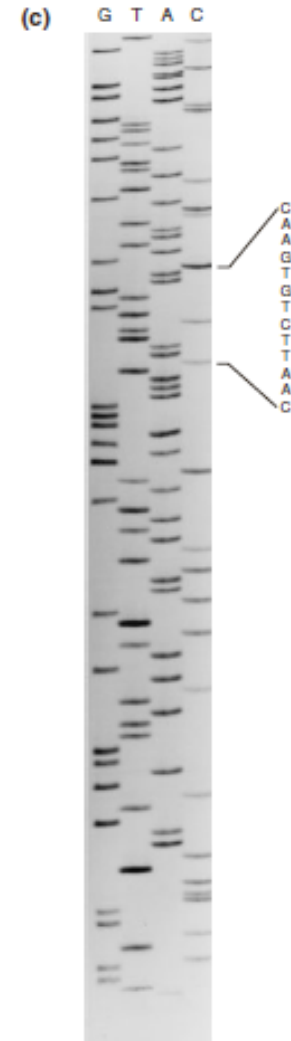
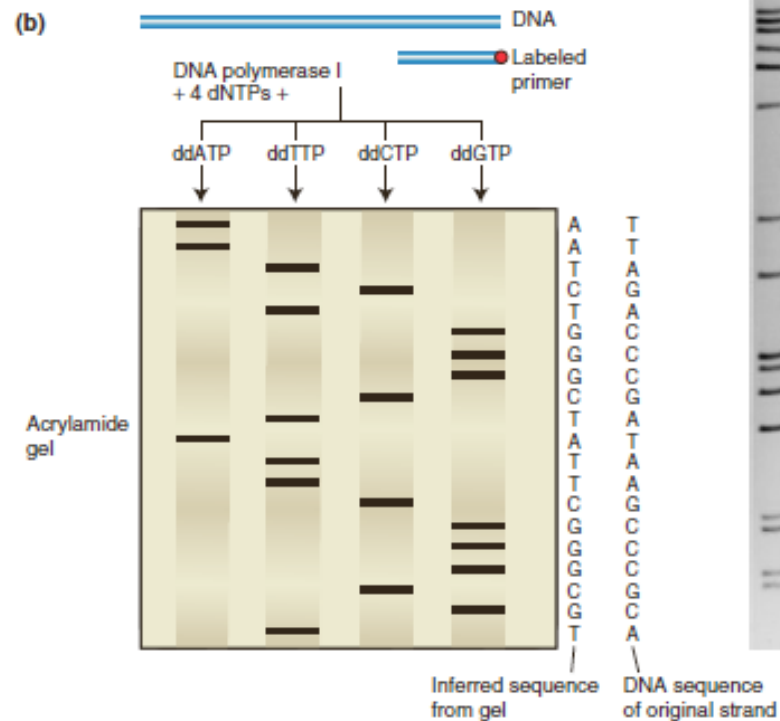
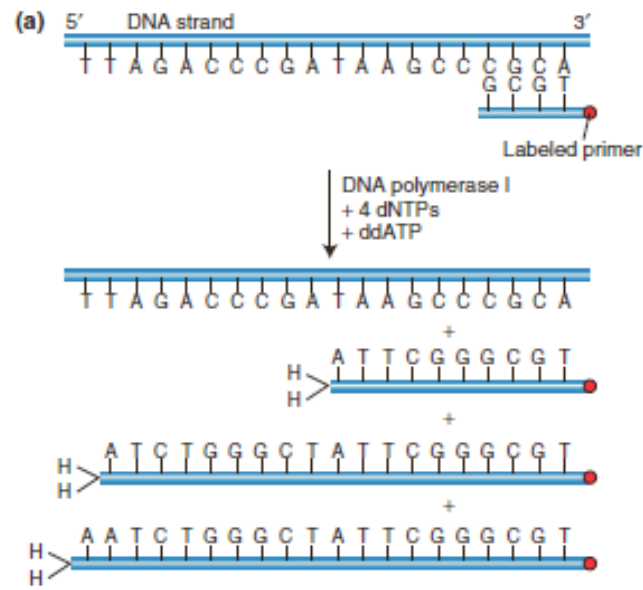


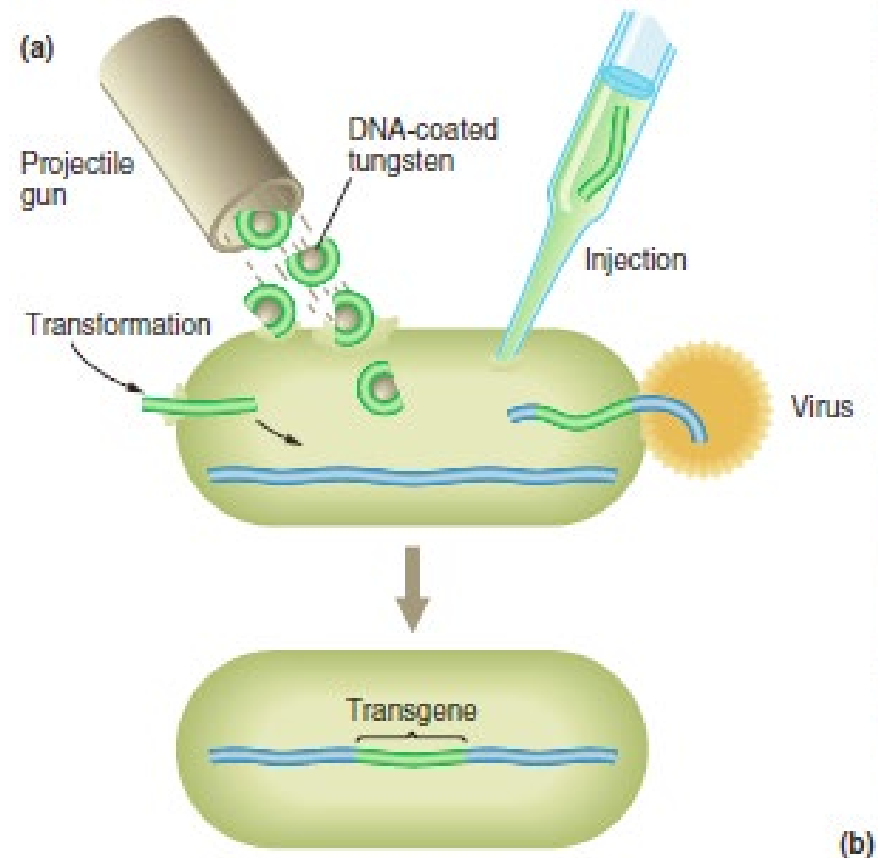
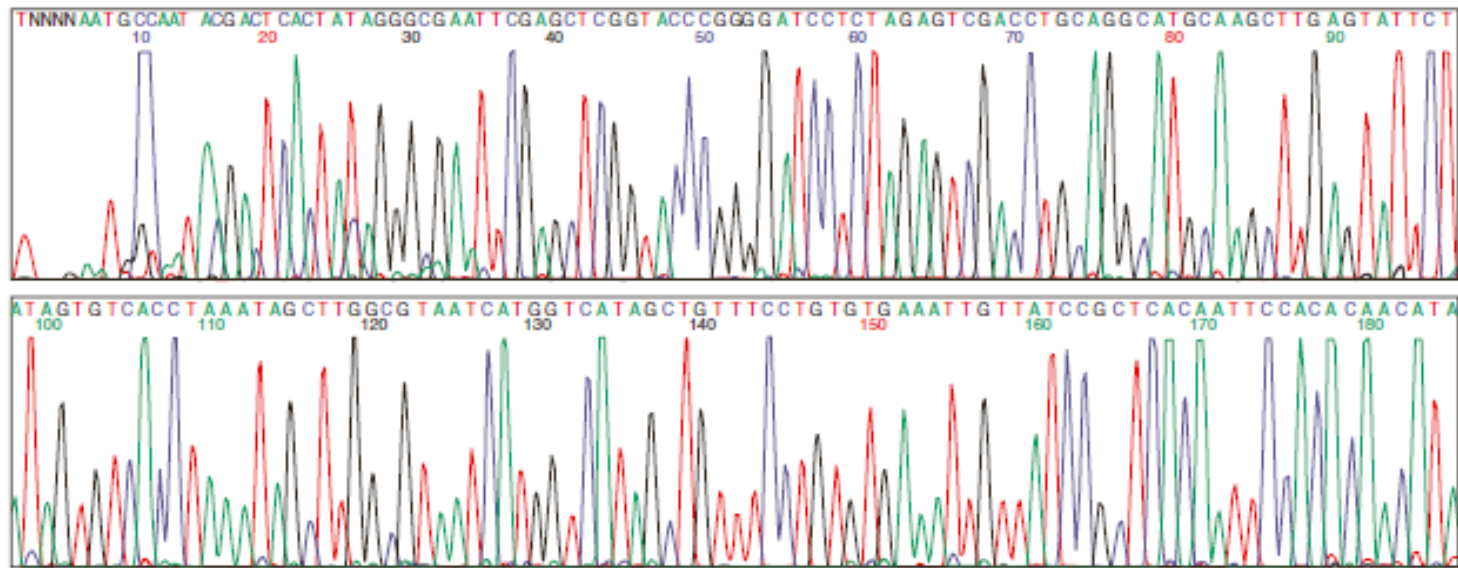
(c) Bacteriophage vectors



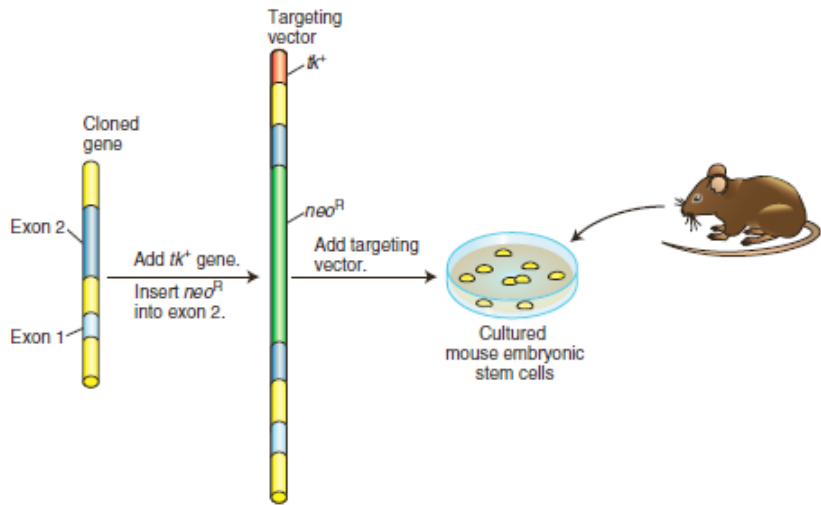




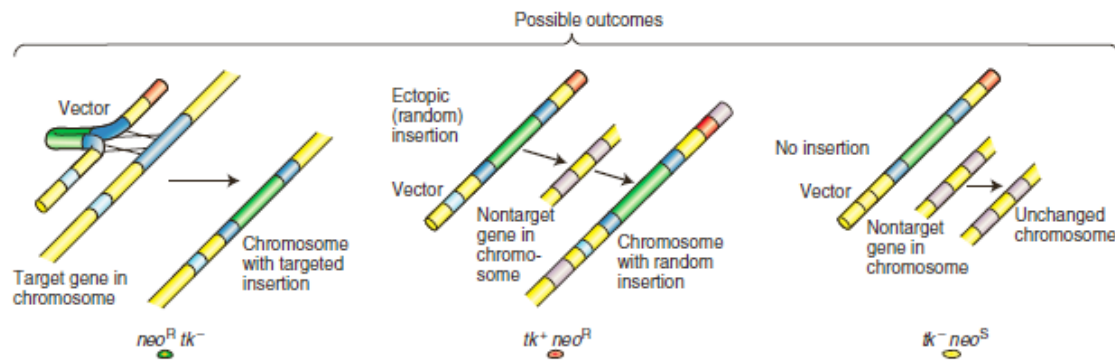




(a) Production of ES cells with a gene knockout



(b) Targeted insertion of vector DNA by homologous recombination



(c) Selection of cells with gene knockout

