

Mutagenesi in vitro

Overlap extension PCR

Costruzione di un frammento di DNA sintetico con una mutazione predefinita

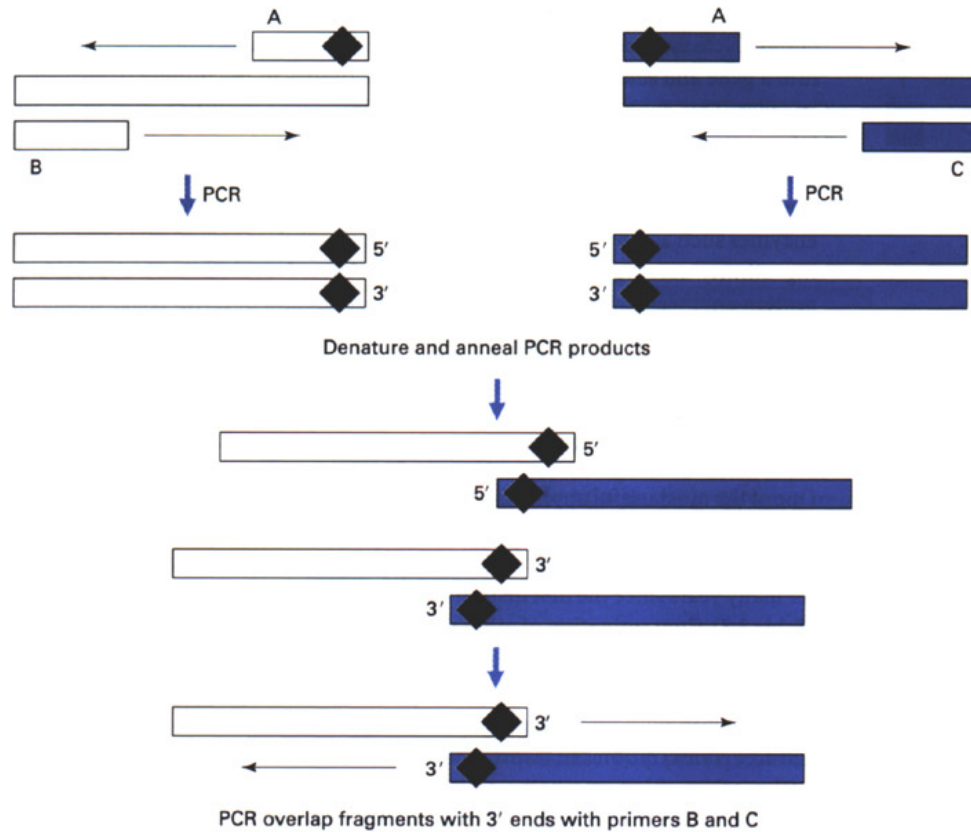
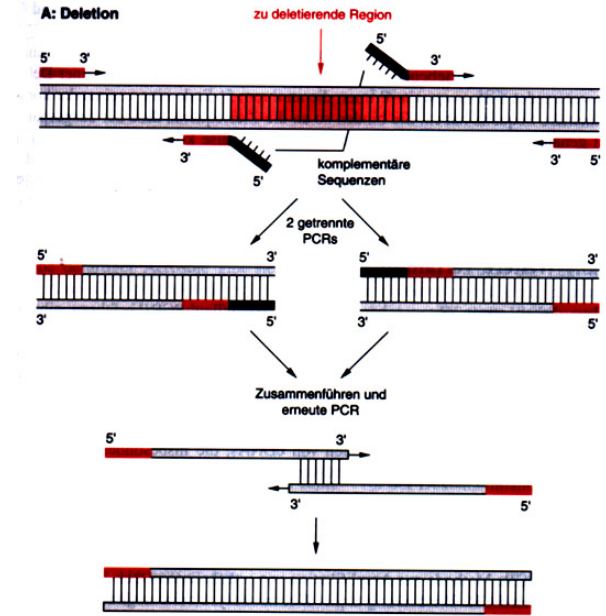
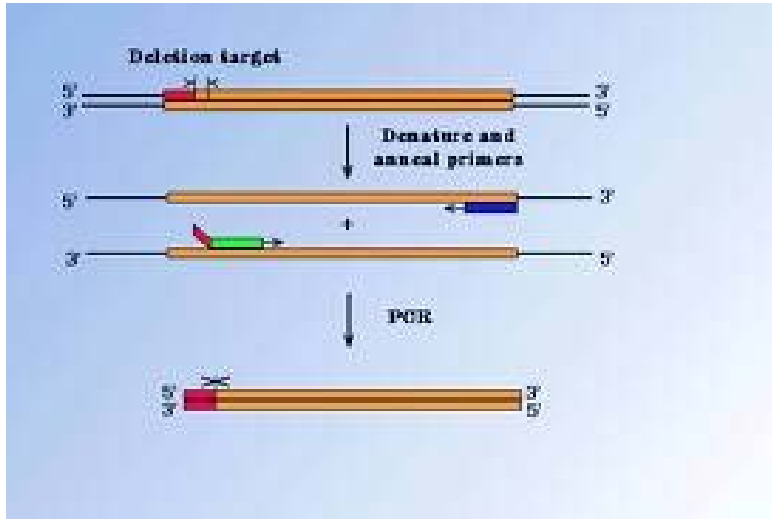


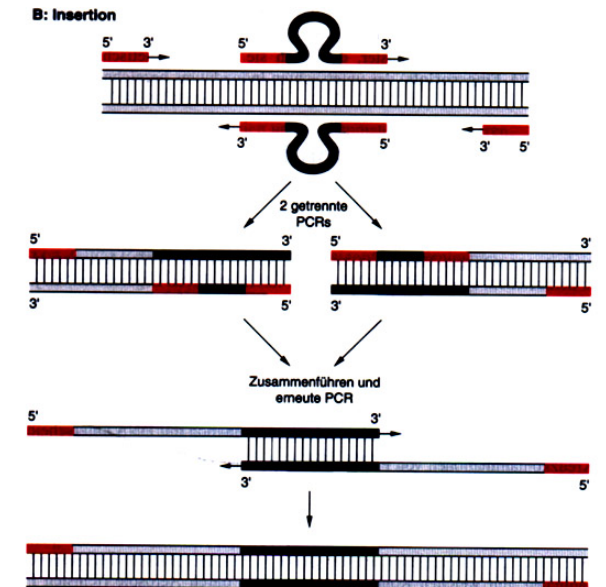
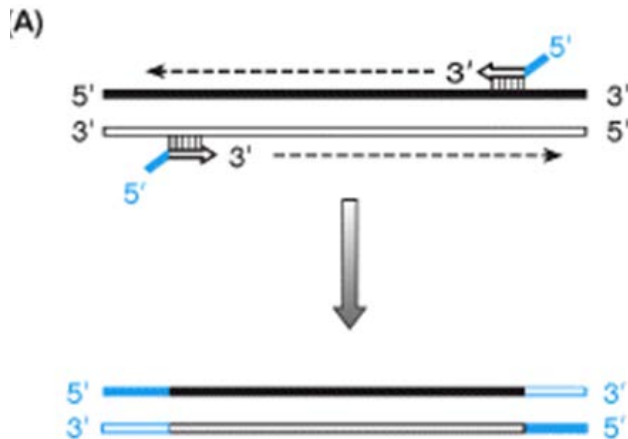
Fig. 3.33. Construction of a synthetic DNA fragment with a predefined mutation using overlap PCR mutagenesis.

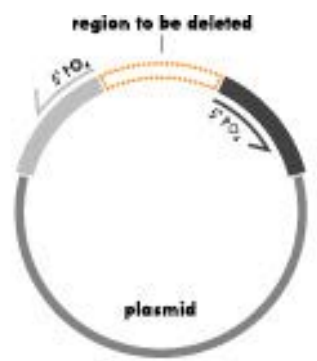
Mutagenesi in vitro

Delezione



Inserzione





PCR

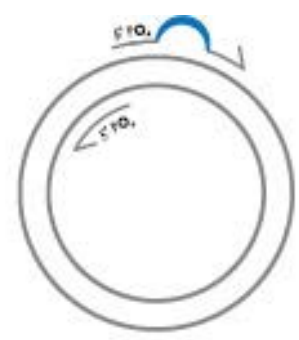


intramolecular ligation



A. Deletion

final product



amplify target DNA

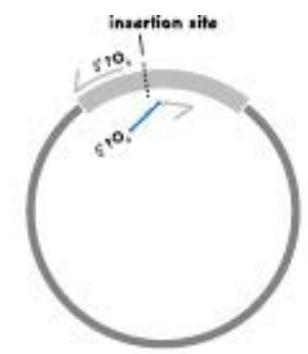


intramolecular ligation



B. Substitution

final product



PCR

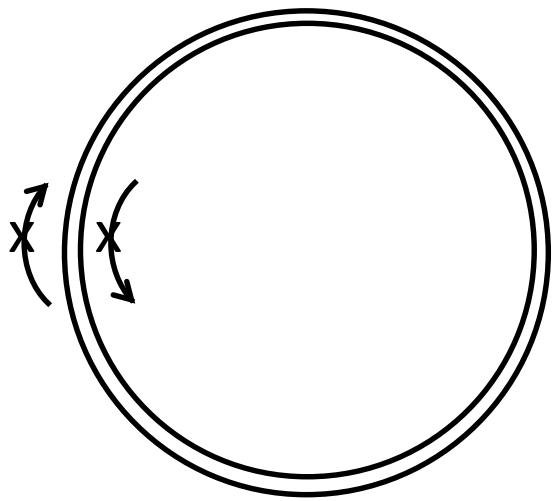


intramolecular ligation

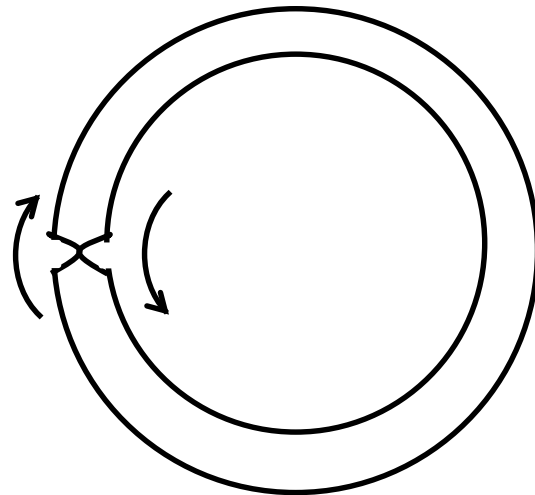


C. Insertion

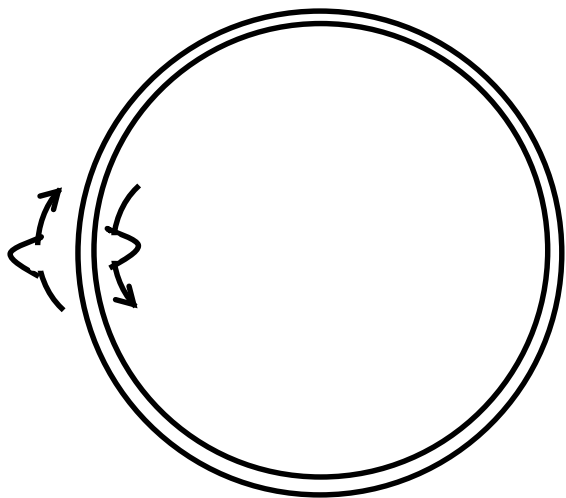
final product



Substitution



Deletion



Insertion

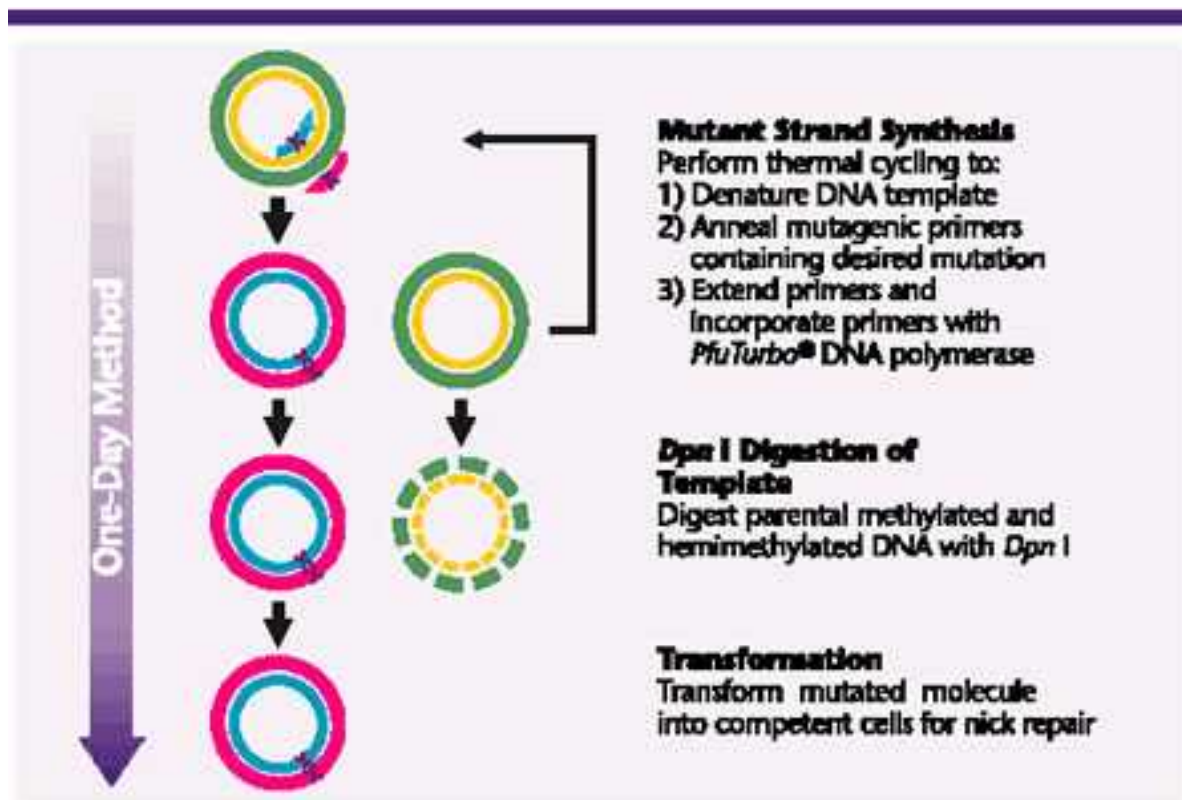


Figure 1

QuikChange™ and QuikChange™ XL Kit Method

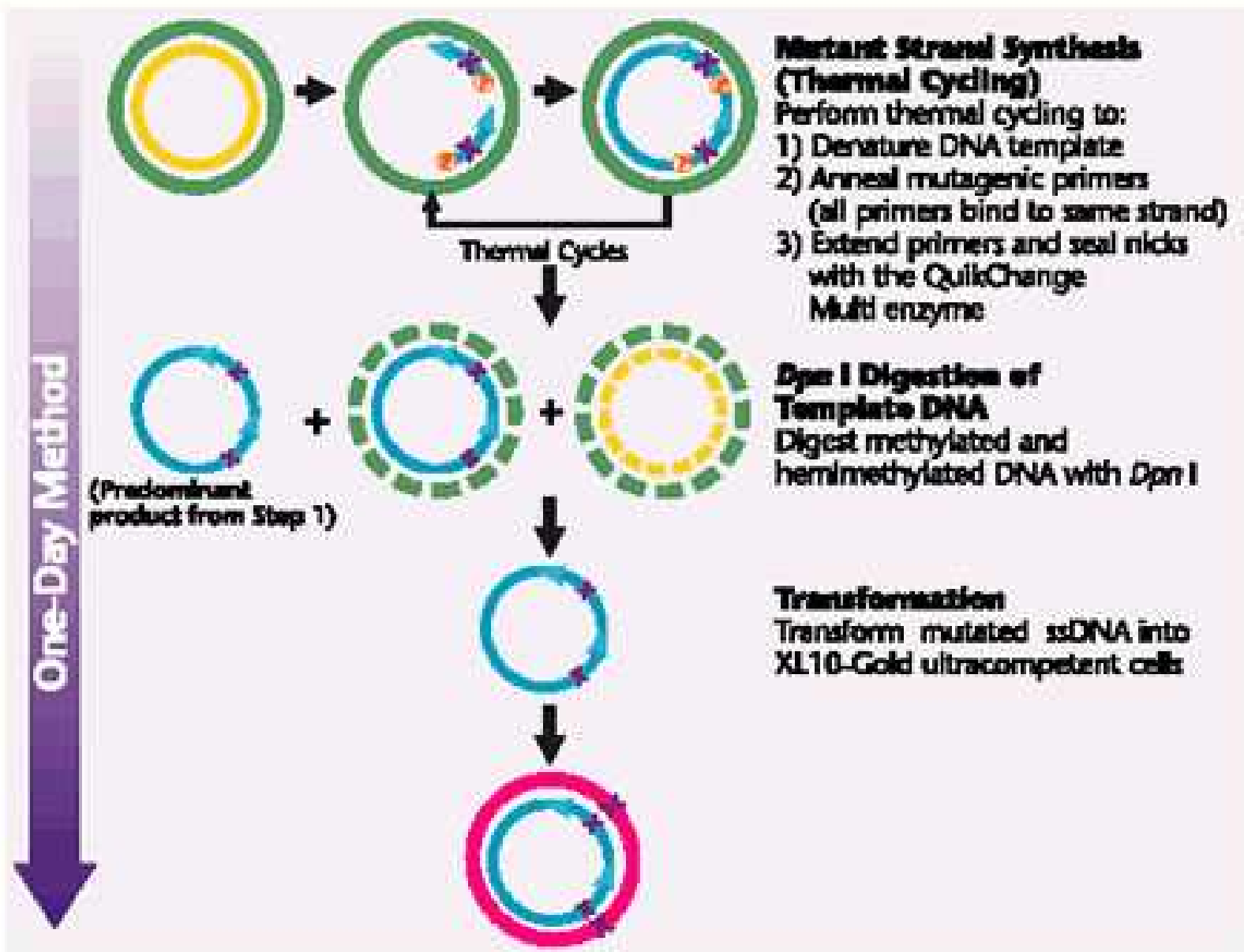


Figure 2

QuikChange™ Multi Site-Directed Mutagenesis Kit Method