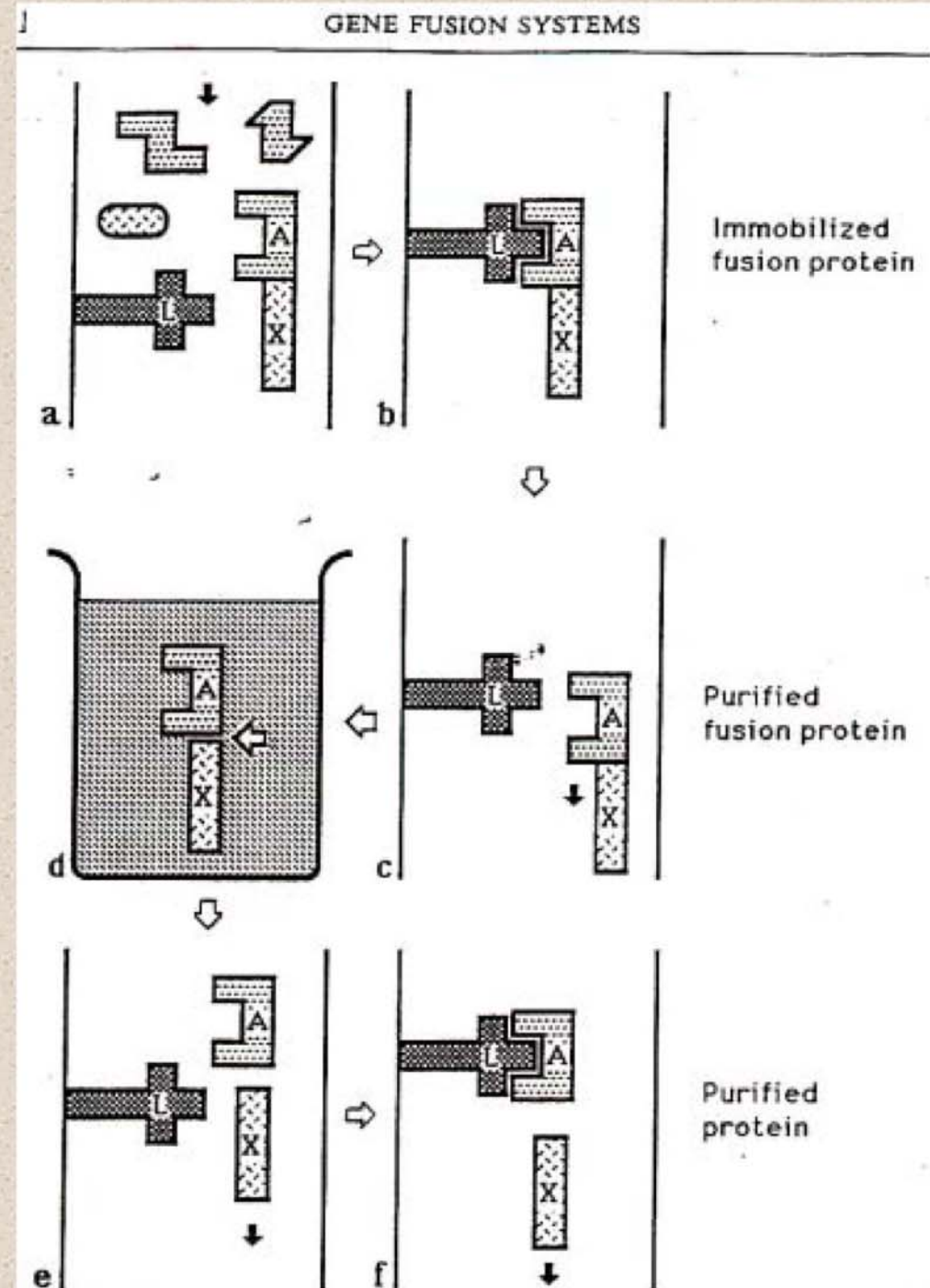


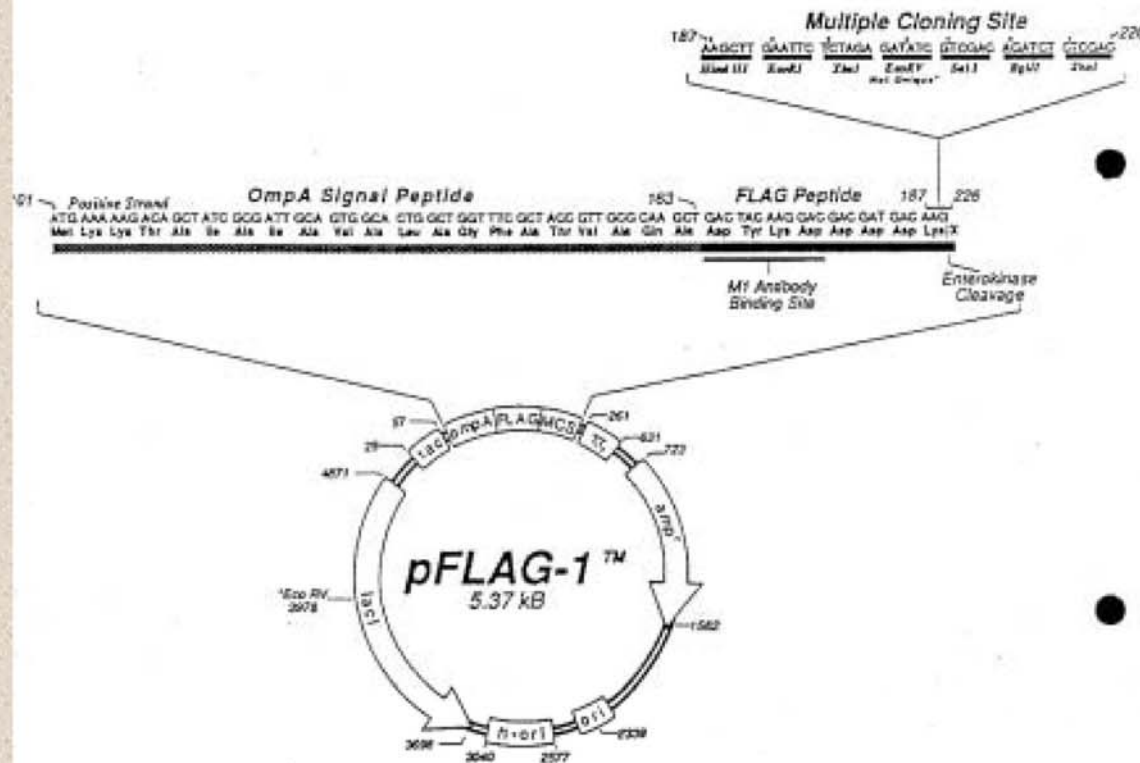
Bakterielle Expression

Zur schnellen
Reinigung des
exprimierten
Proteins dienen
Fusionskonstrukte

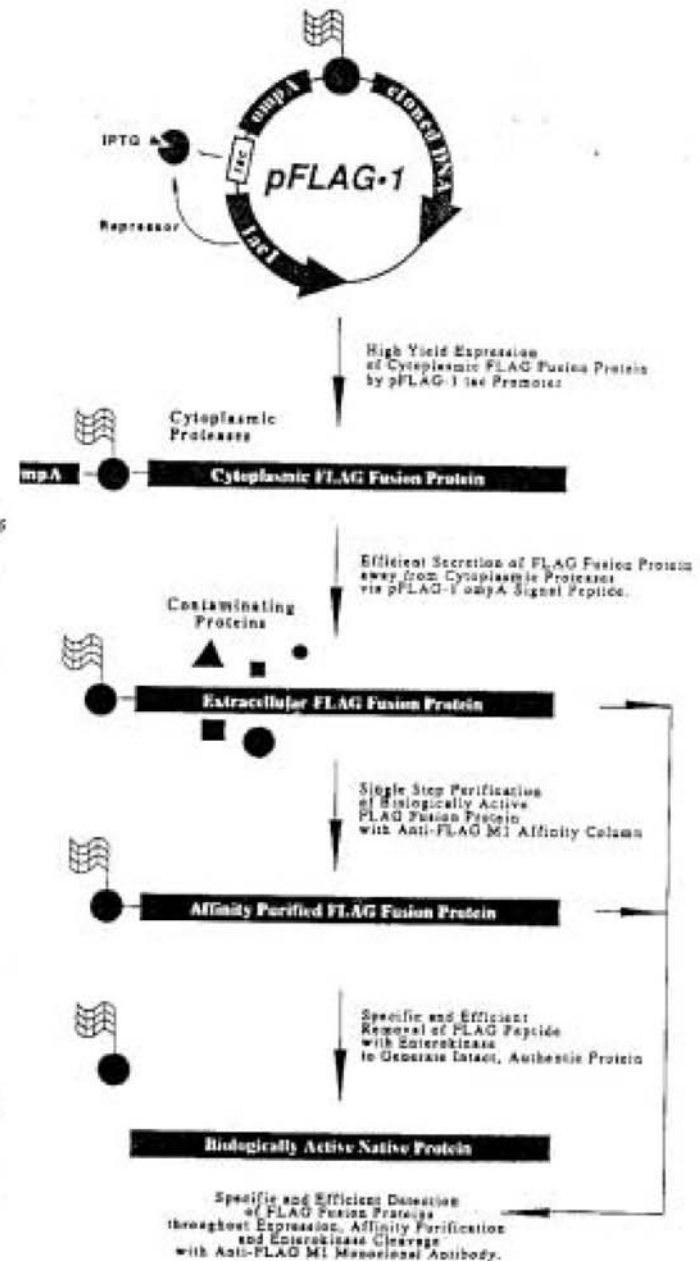


„Flag“-Vektoren dienen der Expression und schnellen Reinigung von Fusions-Proteinen in Bakterien

Figure 5
pFLAG-1 Expression Vector



FLAG Strategy for Protein Expression, Detection and Purification



**Suizidvektoren bringen alle Zellen um,
die nicht gentechnisch verändert sind**



pGEM^R-T Easy

- Dient zur leichten Klonierung von PCR-Produkten

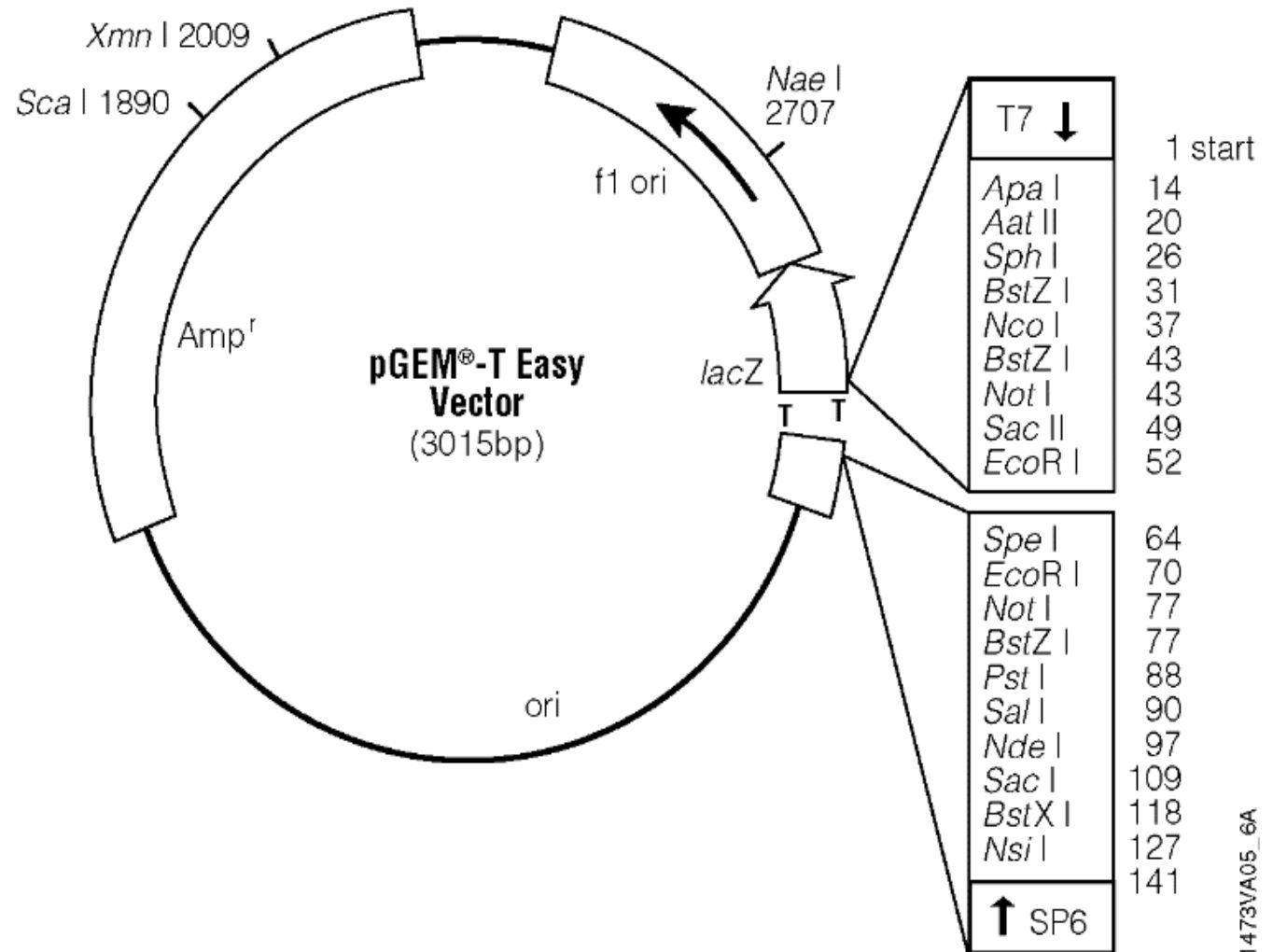


Figure 1 - Gateway® Technology–Rapidly move from one application to the next

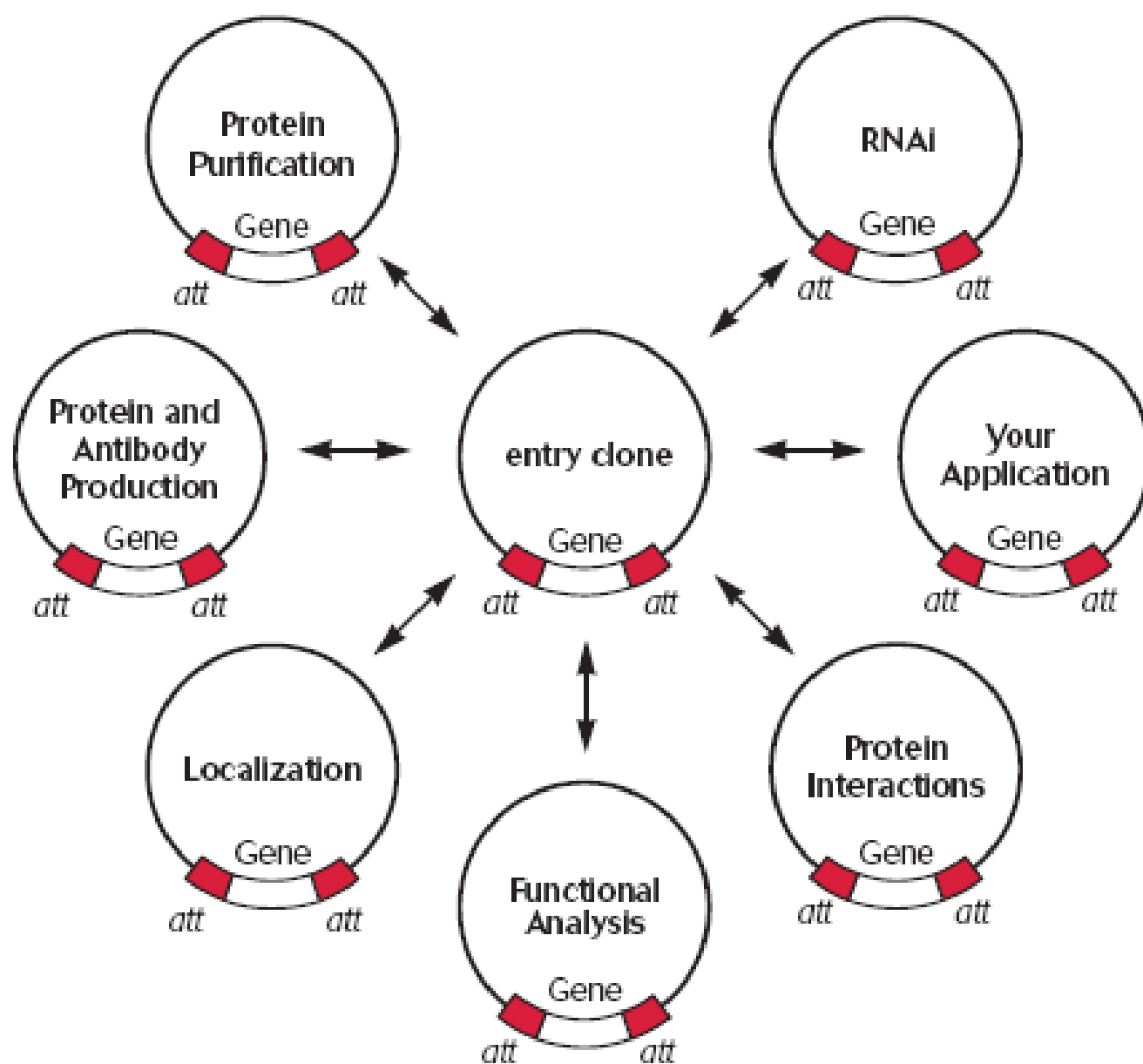


Figure 2 - How TOPO® Cloning and Gateway® transfer work

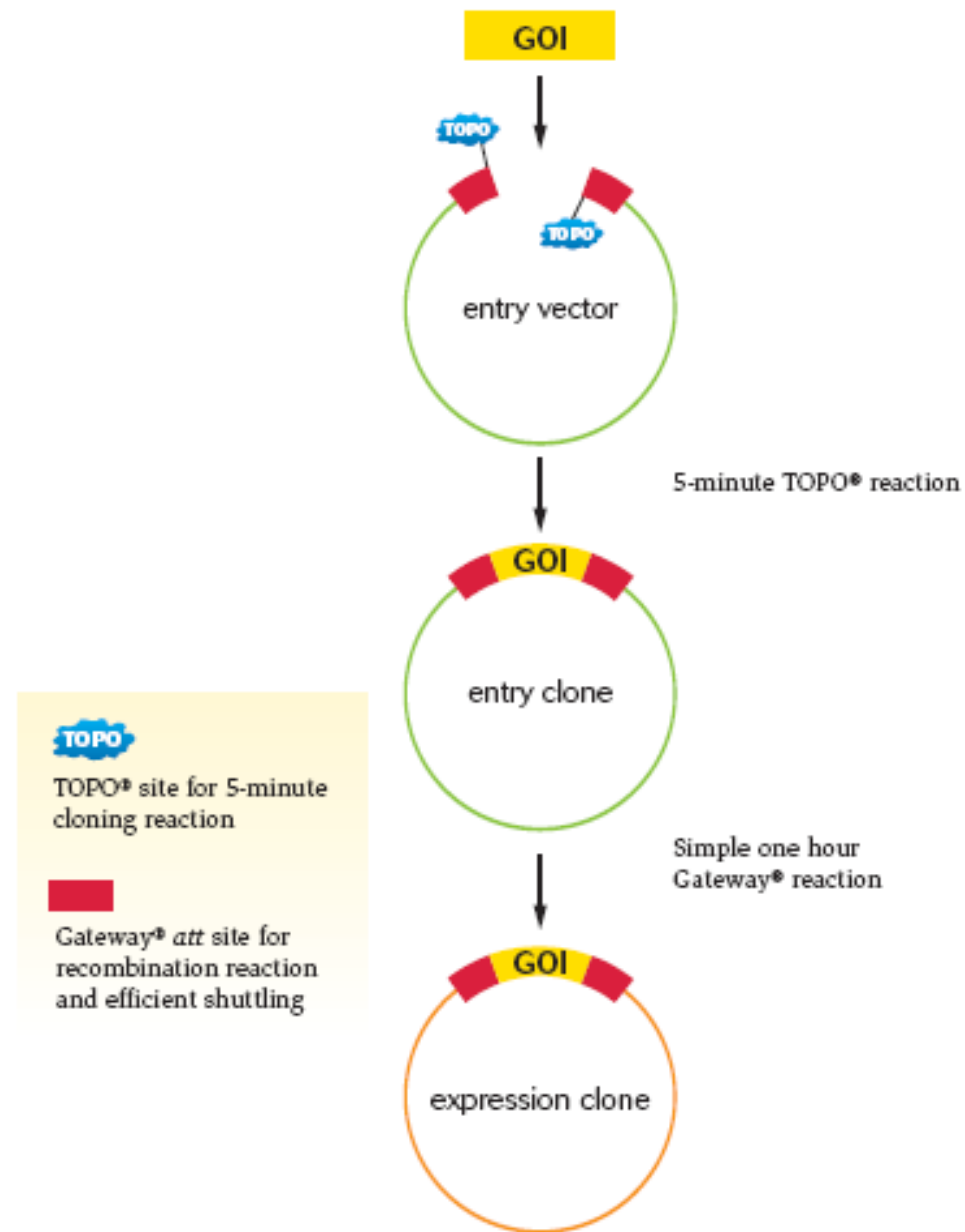


Figure 1 - TOPO TA Cloning® of *Taq*-amplified DNA

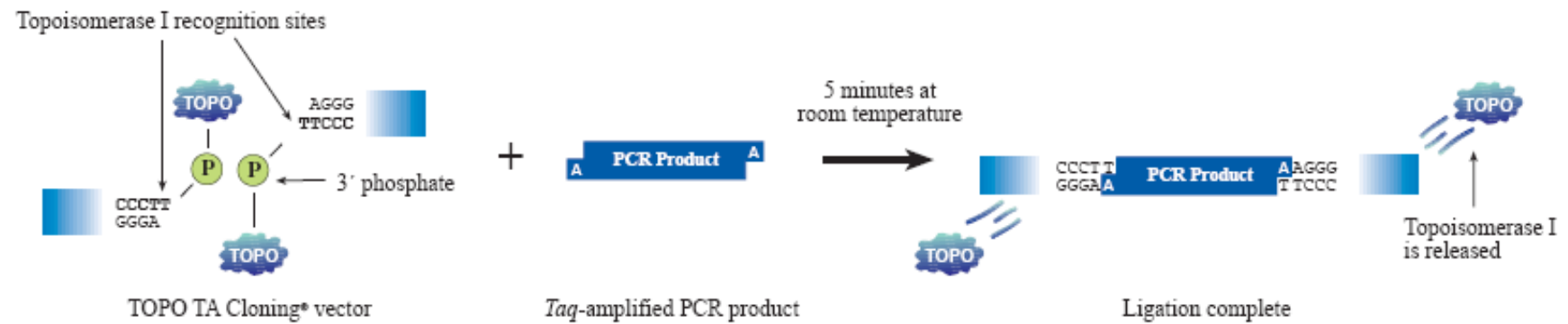
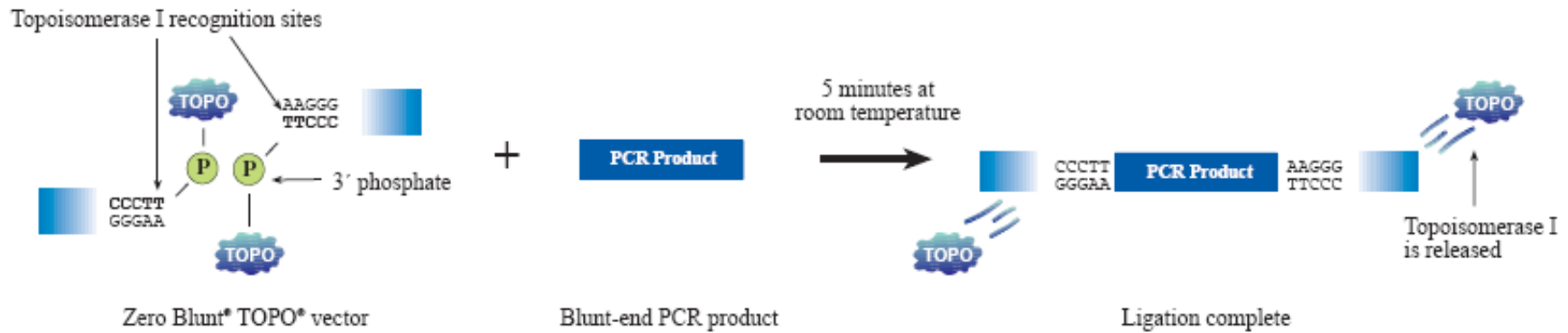


Figure 2 - Zero Blunt® TOPO® Cloning of blunt-end DNA



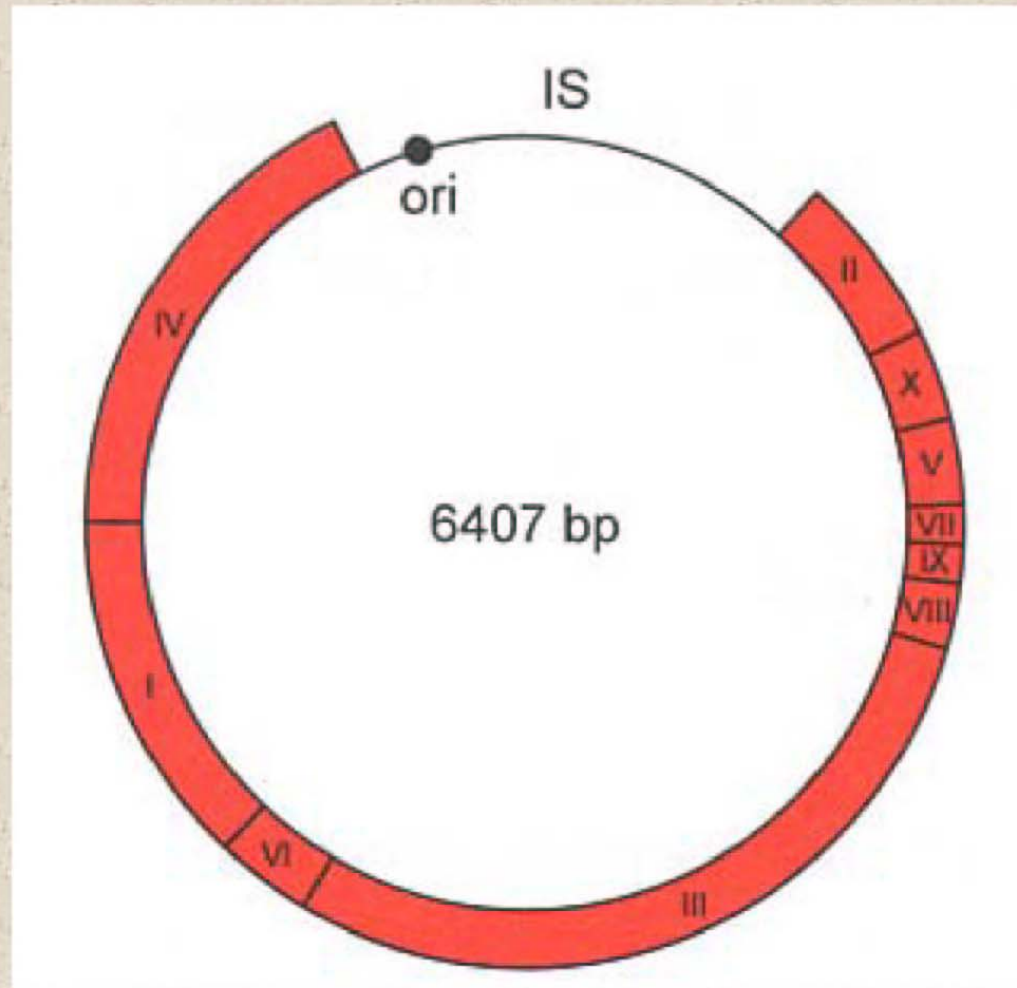
Vektoren auf der Basis von Bakteriophagen

M13/f1-Phage

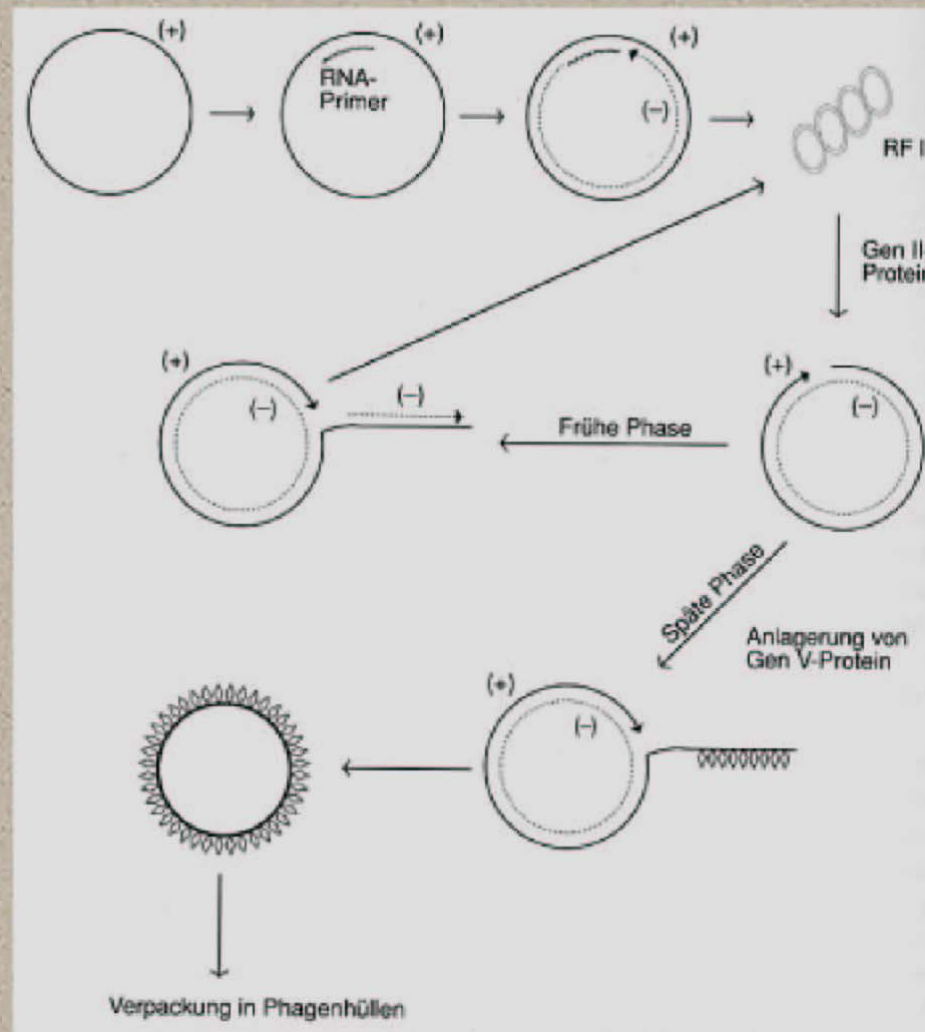
λ -Phage

P1-Phage

Bakteriophage- M13



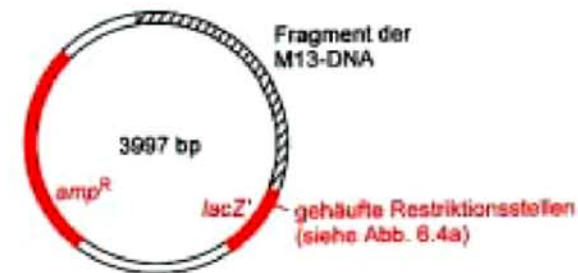
Bakteriophage-M13, Replikation



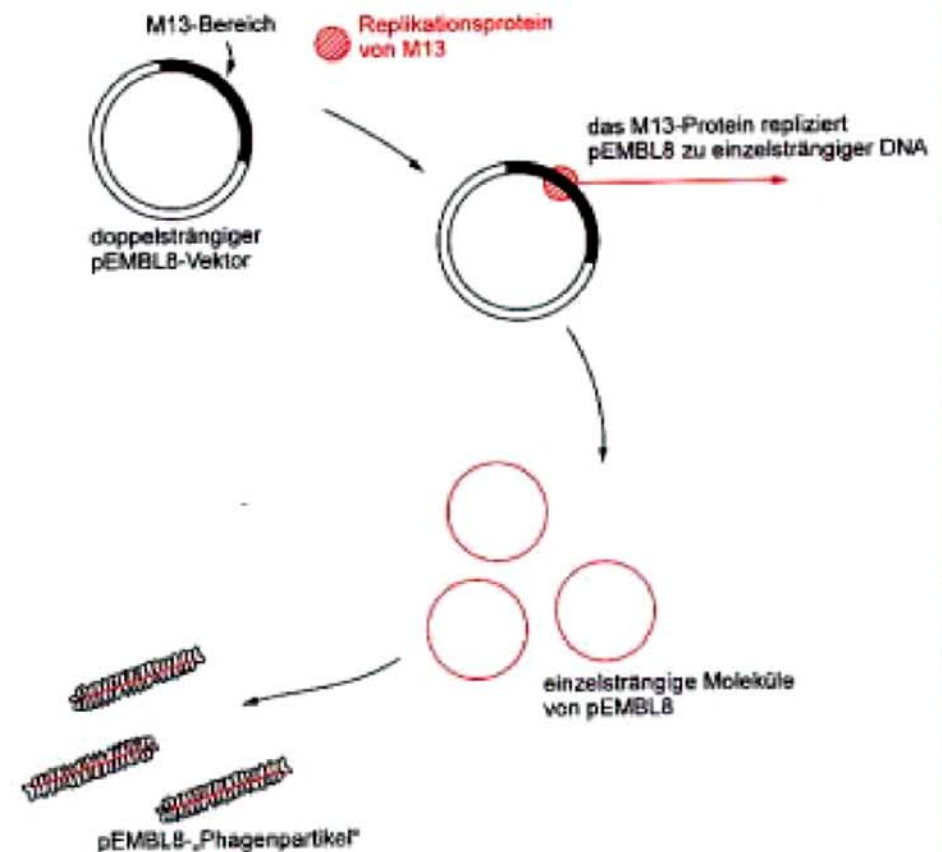
Konstruktion eines Phagemids

I. Grundprinzipien der DNA-Klonierung

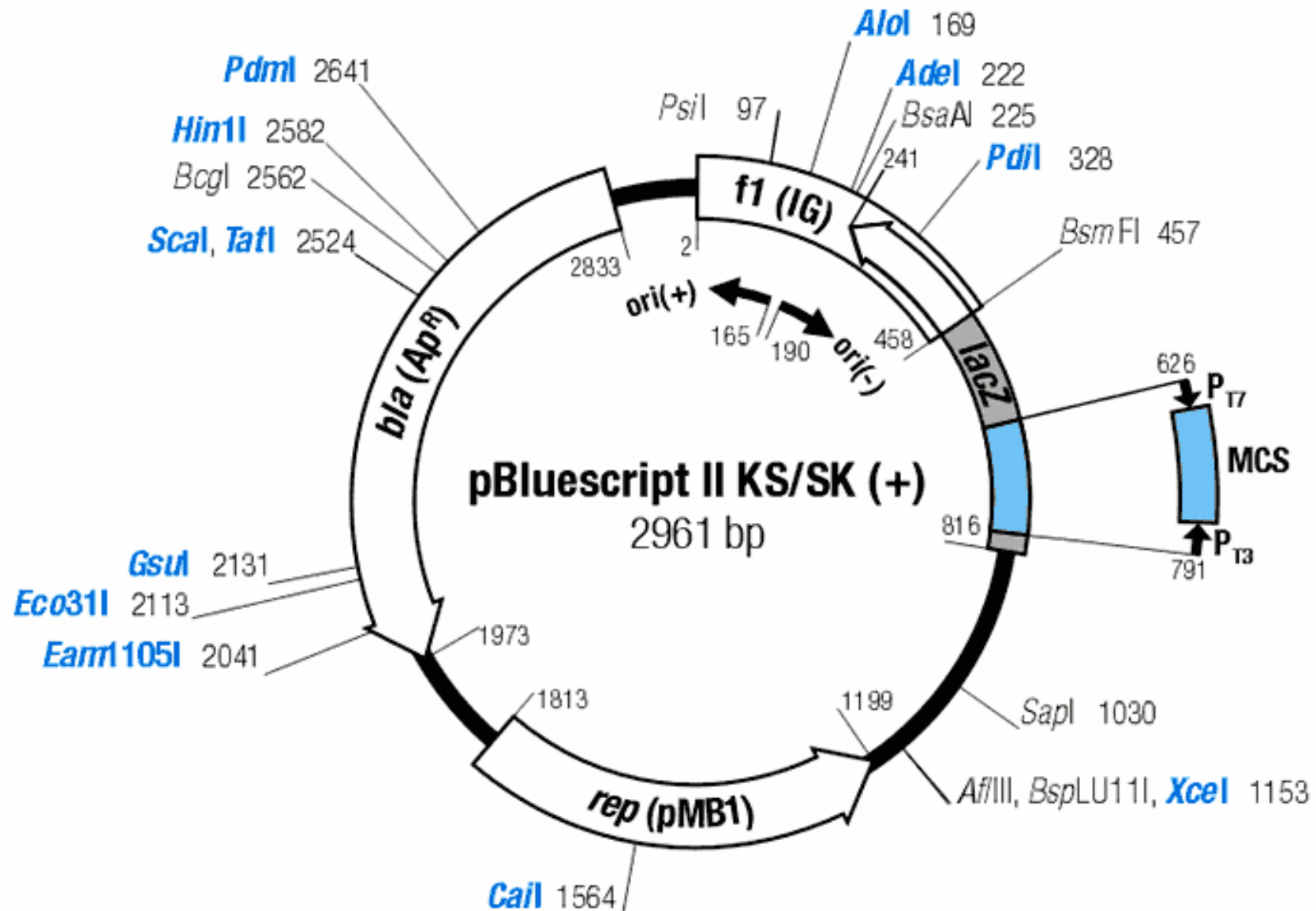
a. pEMBL8



b. Umwandlung von pEMBL8 in einzelsträngige DNA

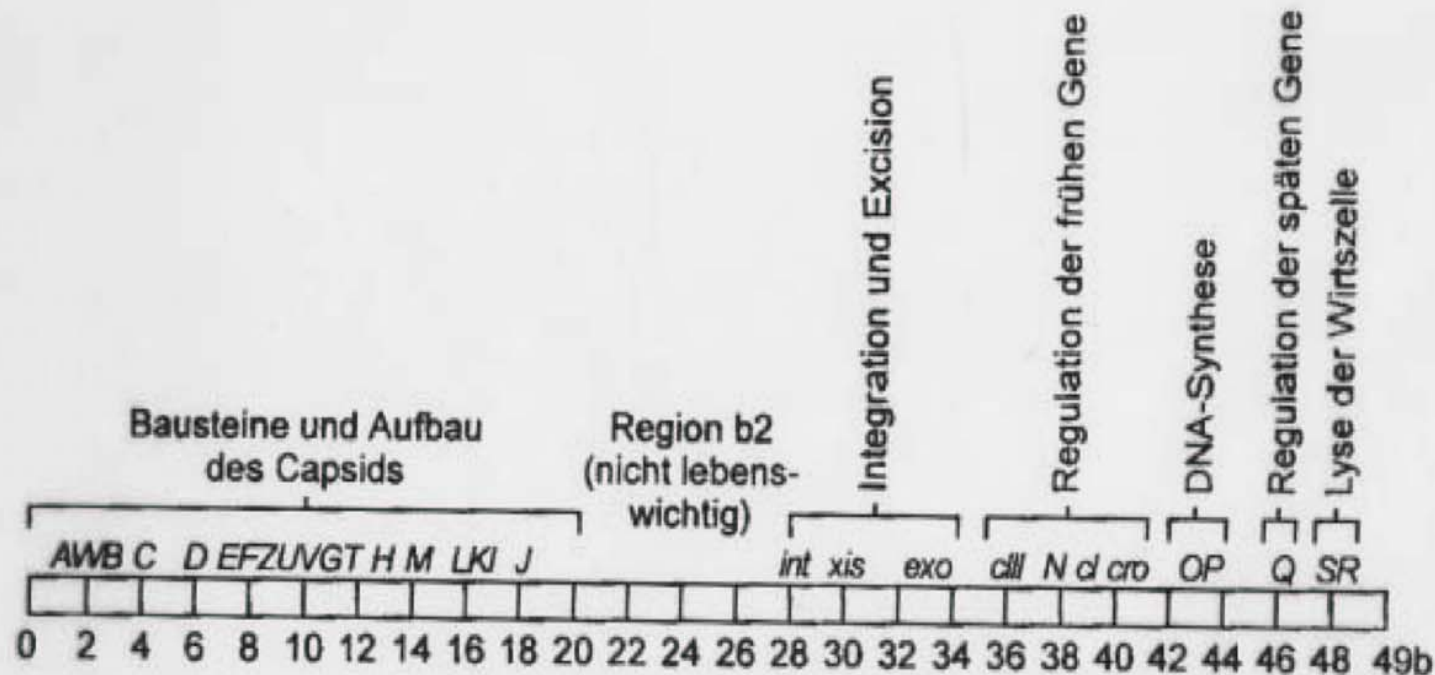


pBluescript, ein klassisches Phagemid



Bakteriophage λ

Genkarte



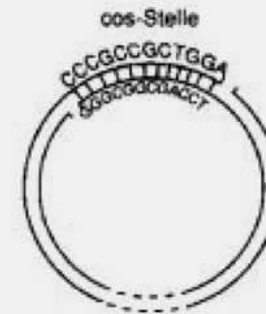
2.9 Die Genkarte von λ . Eingetragen sind die Positionen der wichtigsten Gene und die Funktionen der Gengruppen.

Bakteriophage λ Infektion und Replikation

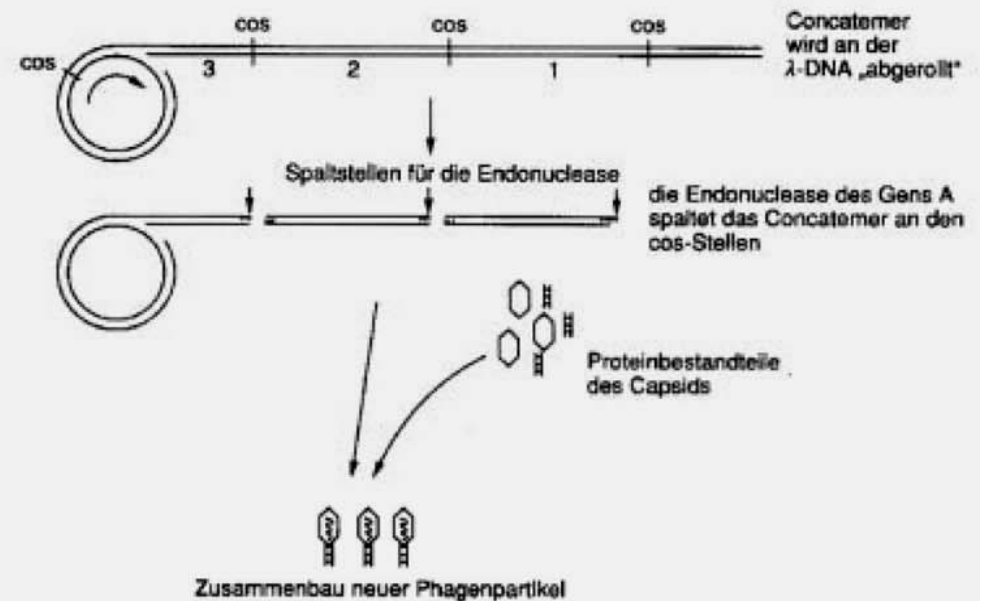
a. λ -DNA in gestreckter Form



a. λ -DNA in Ringform

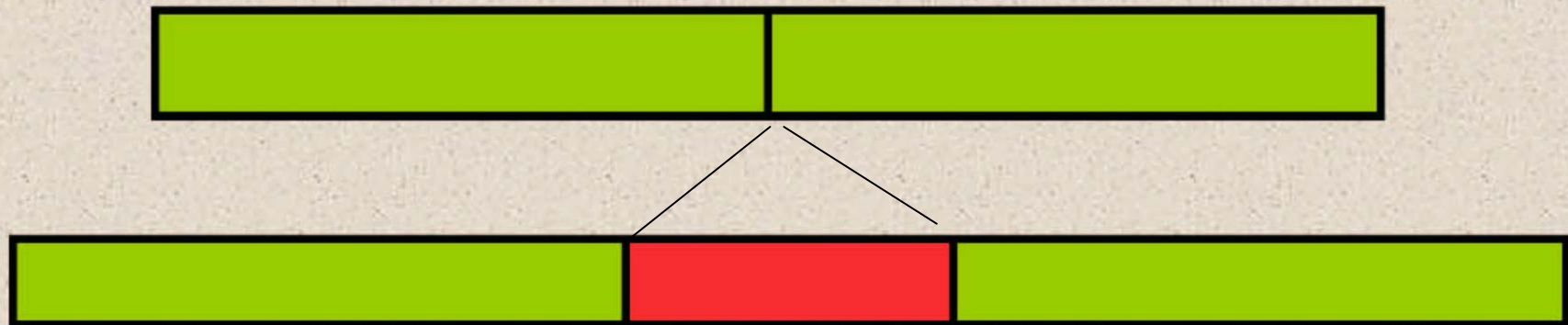


c. Replikation und Verpackung der λ -DNA

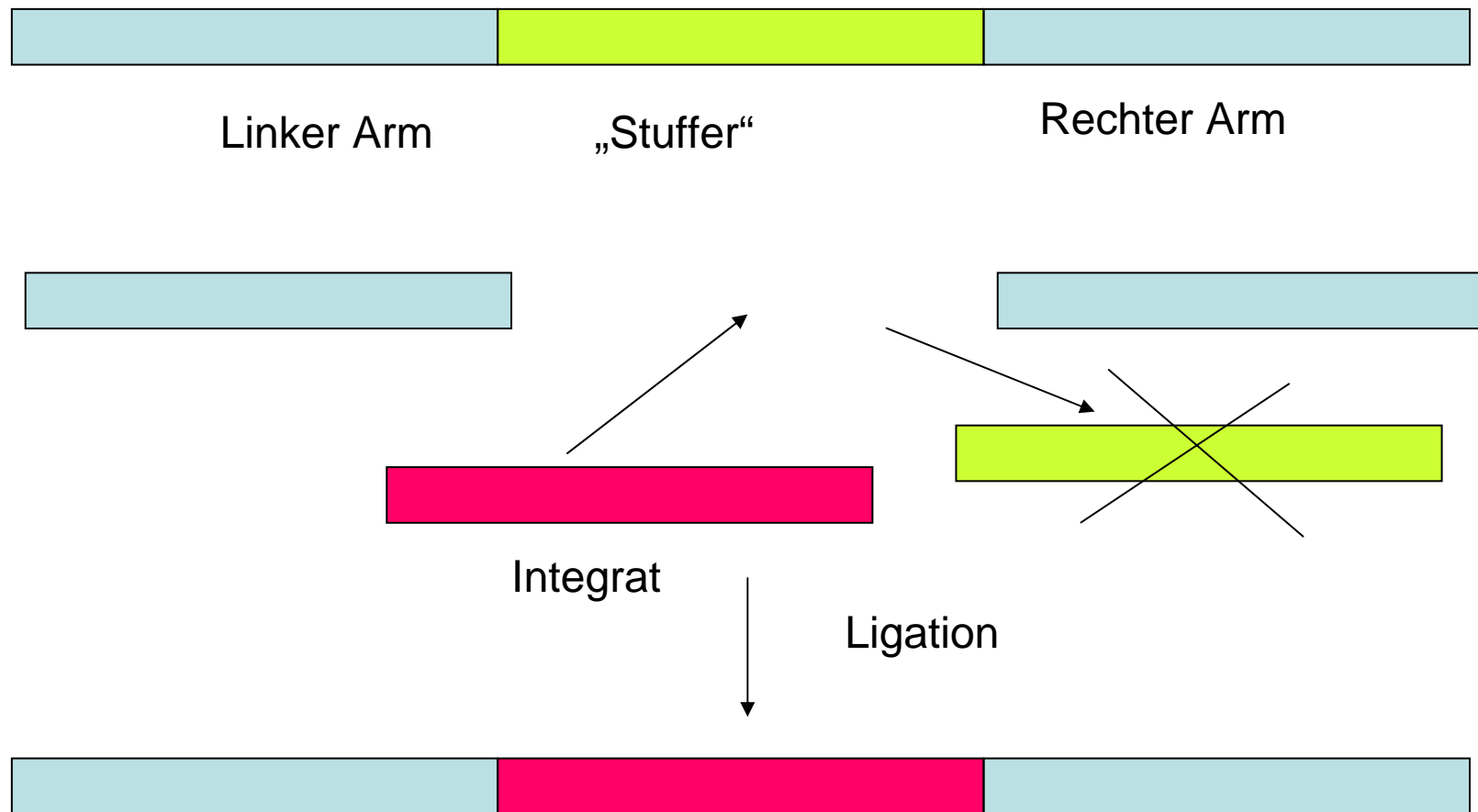


Bakteriophage λ

Integrationsvektoren



Substitutionsvektoren



Lambda gt10/11

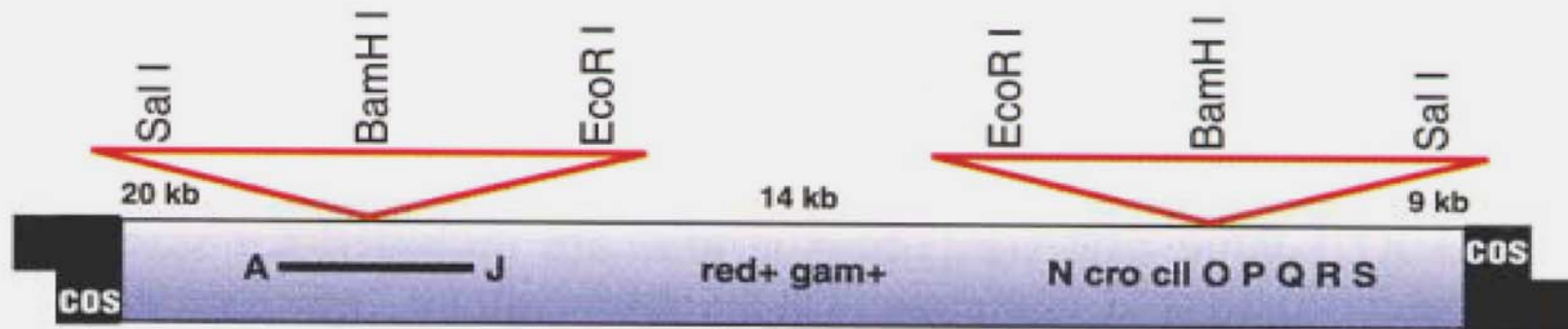
The Lambda gt11 Vector

- Predigested with *EcoR* I
- For construction of cDNA libraries

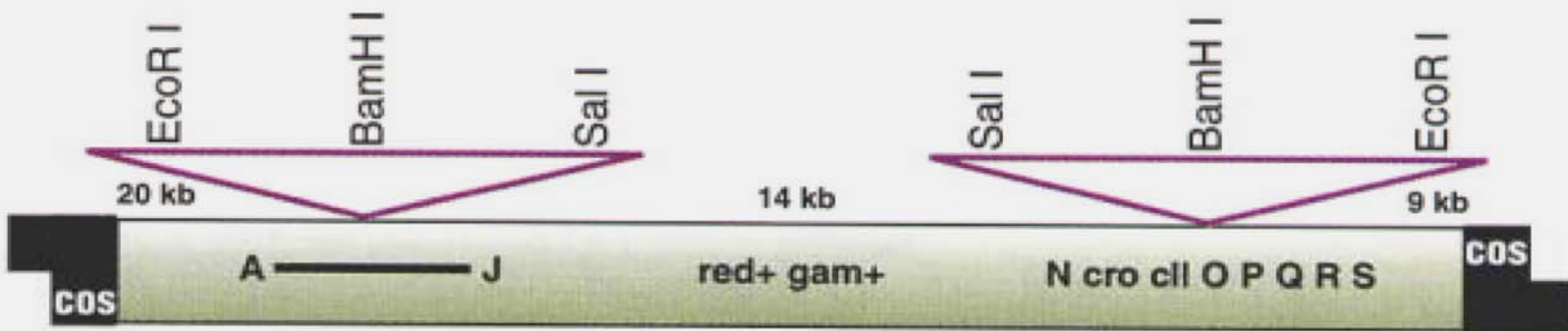


CLONING CAPACITY Capacity of 7.2 kb

Lambda EMBL3/4



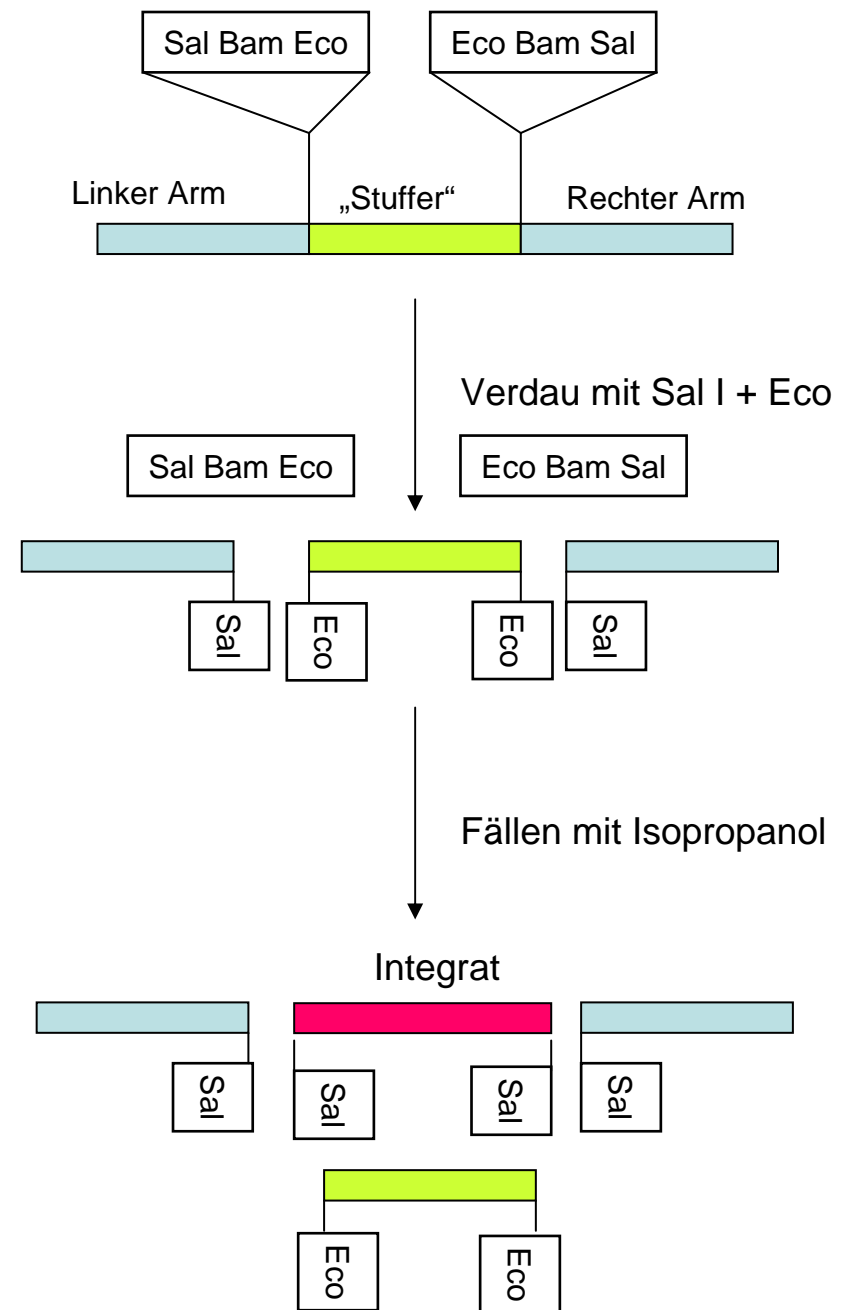
Map of Lambda EMBL3



Map of Lambda EMBL4

Lambda EMBL3/4

Durch Doppelverdau mit SalI und EcoRI erhalten die Arme andere Enden als das zentrale Fragment („stuffer“), so dass eine Religation des Vektors sehr unwahrscheinlich ist, insbesondere wenn die Linker durch Fällung aus dem Gemisch entfernt werden



Lambda Zap:
Moderne Vektoren
Mit Phagen und Plasmid-
eigenschaften

