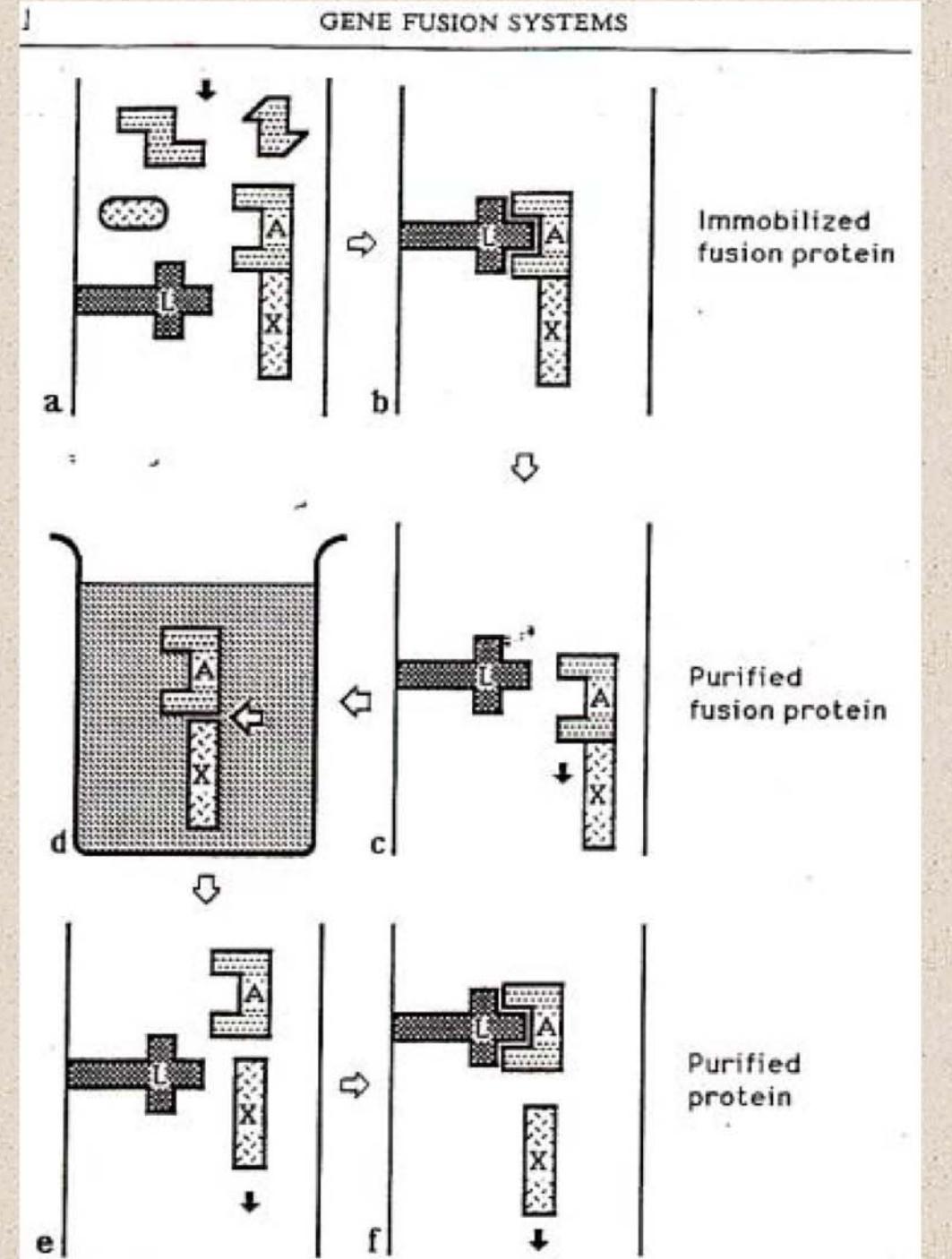
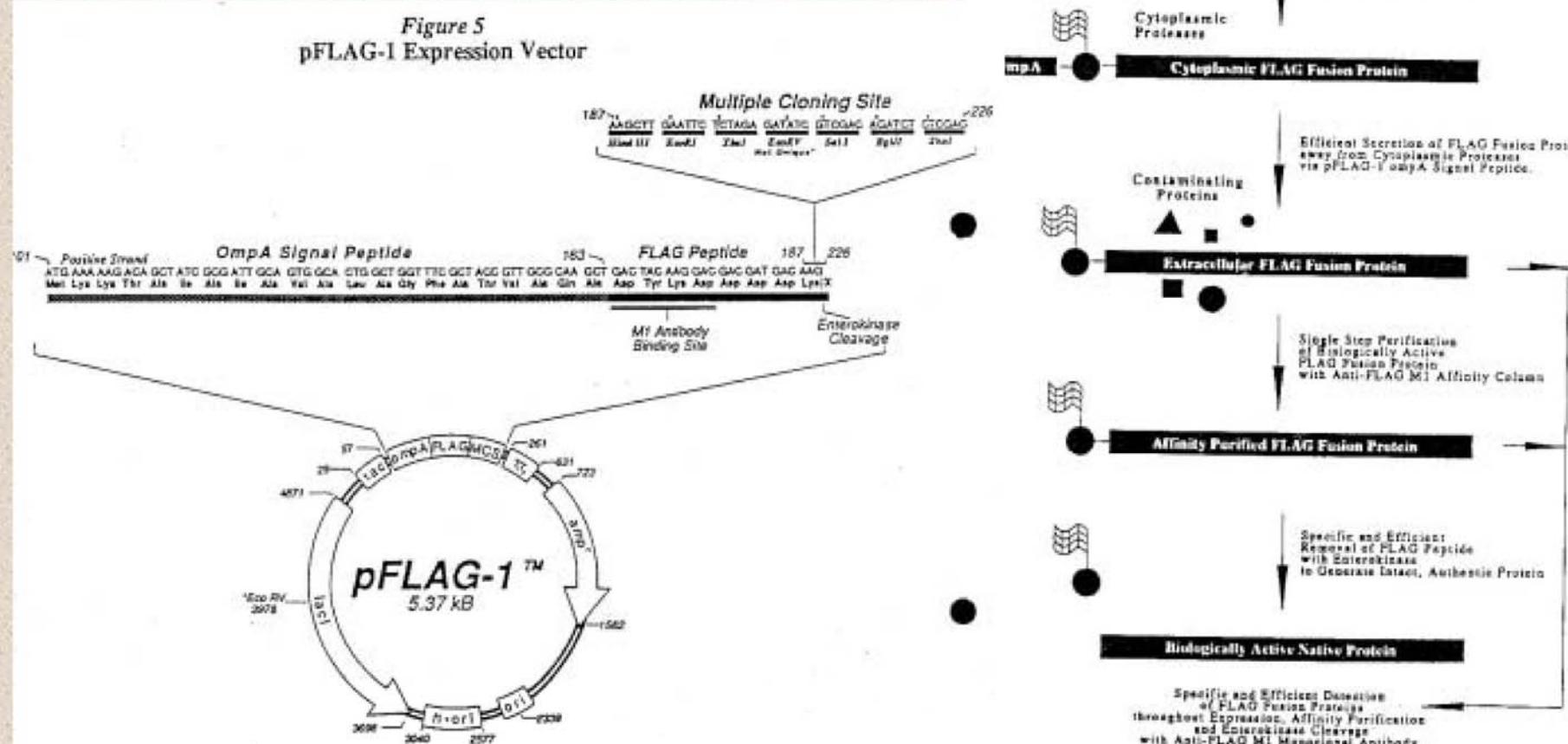


Bakterielle Expression

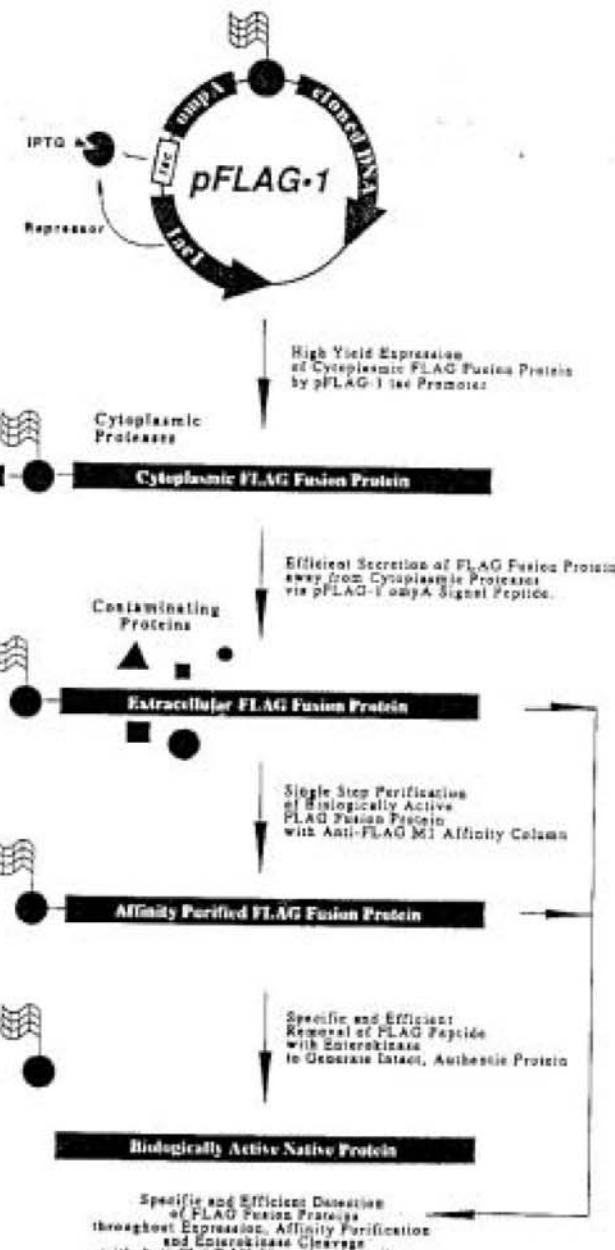
Zur schnellen Reinigung des exprimierten Proteins dienen Fusionskonstrukte



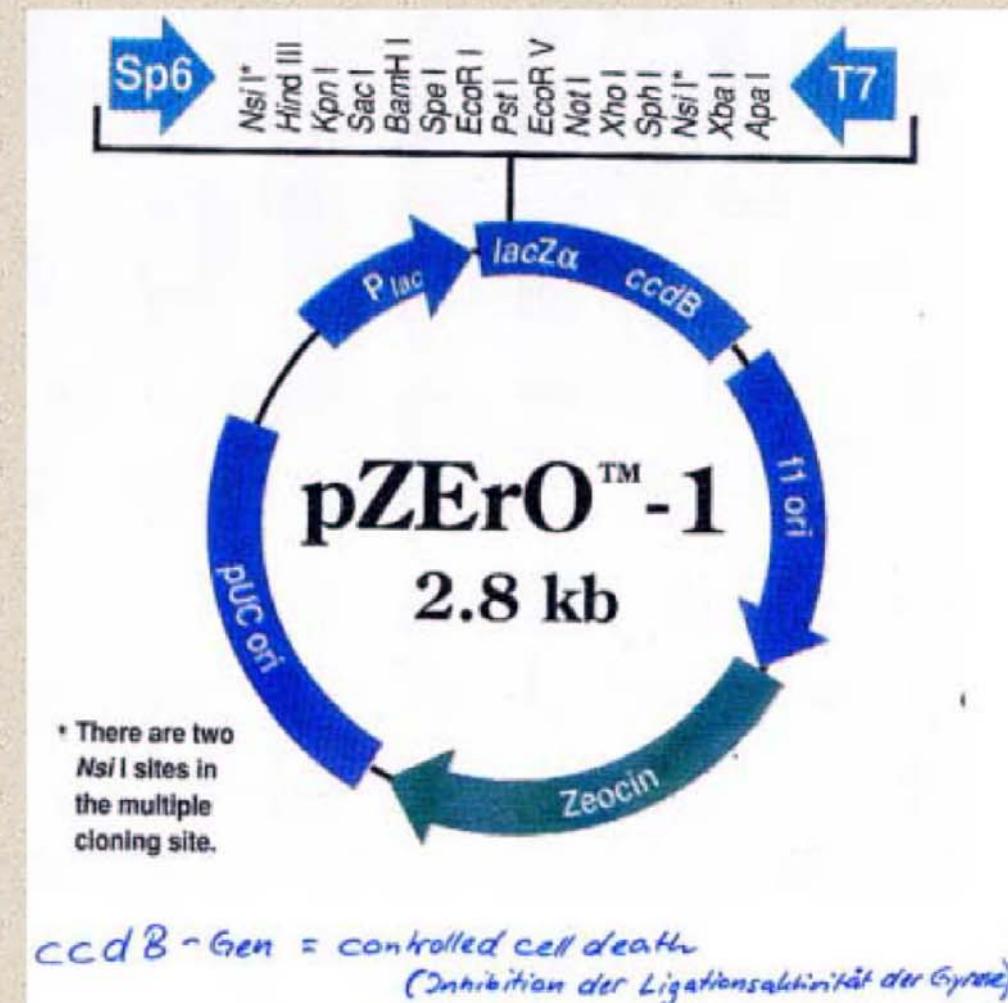
„Flag“-Vektoren dienen der Expression und schnellen Reinigung von Fusionsproteinen in Bakterien



FLAG Strategy for Protein Expression, Detection and Purification



Suizidvektoren bringen alle Zellen um, die nicht gentechnisch verändert sind



pGEM[®]-T Easy

- Dient zur leichten Klonierung von PCR-Produkten

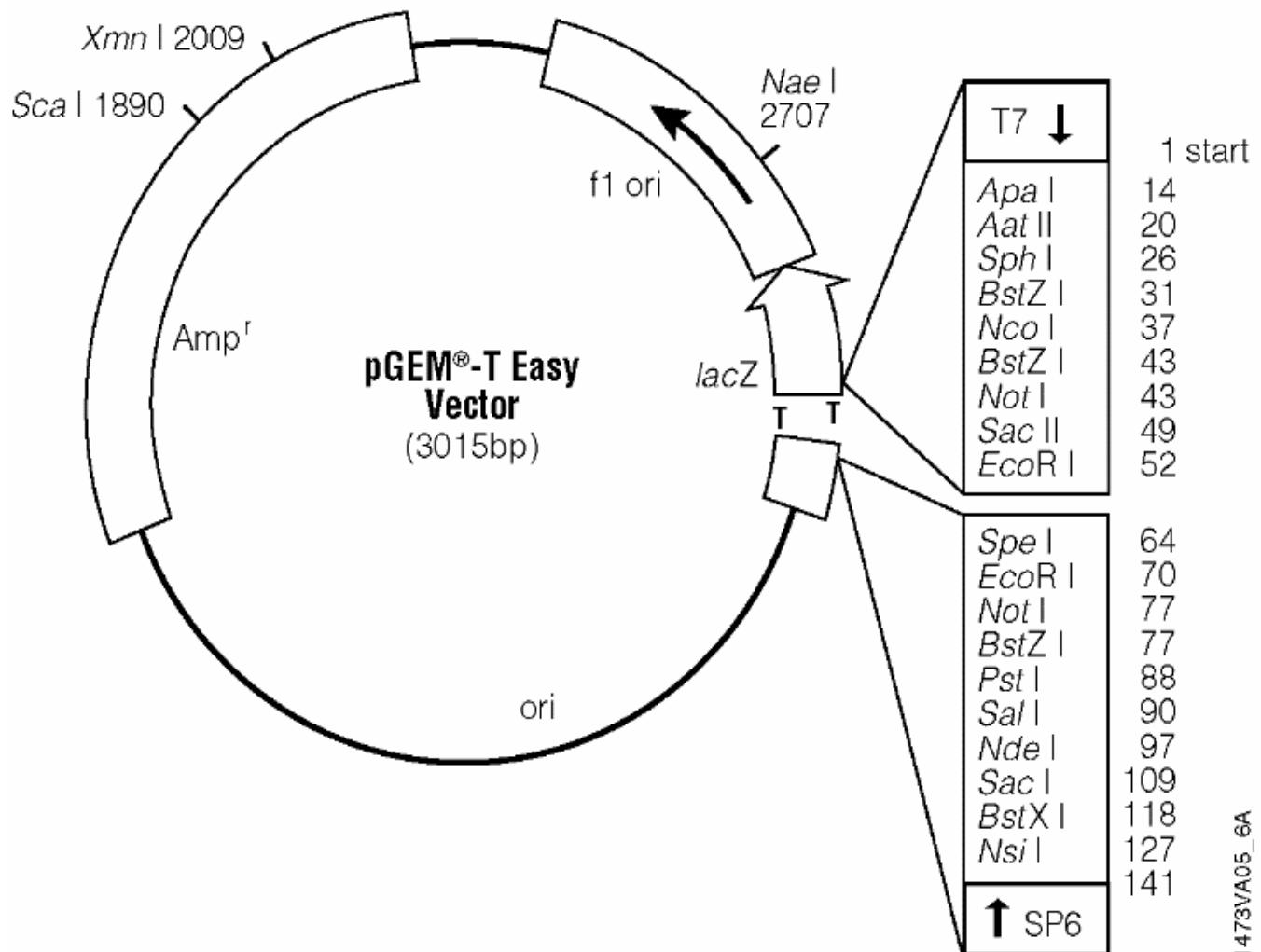


Figure 1 - Gateway® Technology—Rapidly move from one application to the next

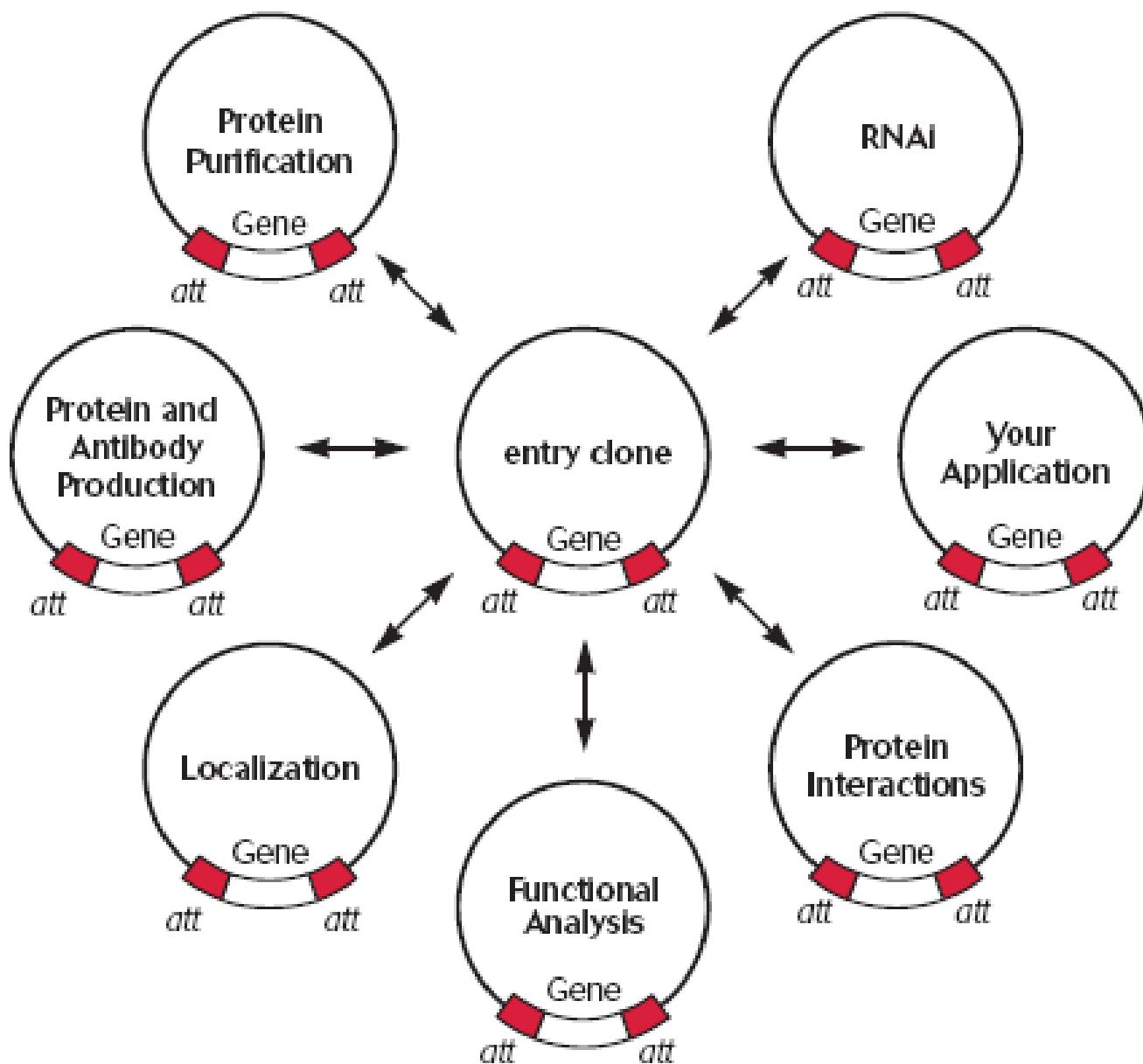


Figure 2 - How TOPO® Cloning and Gateway® transfer work

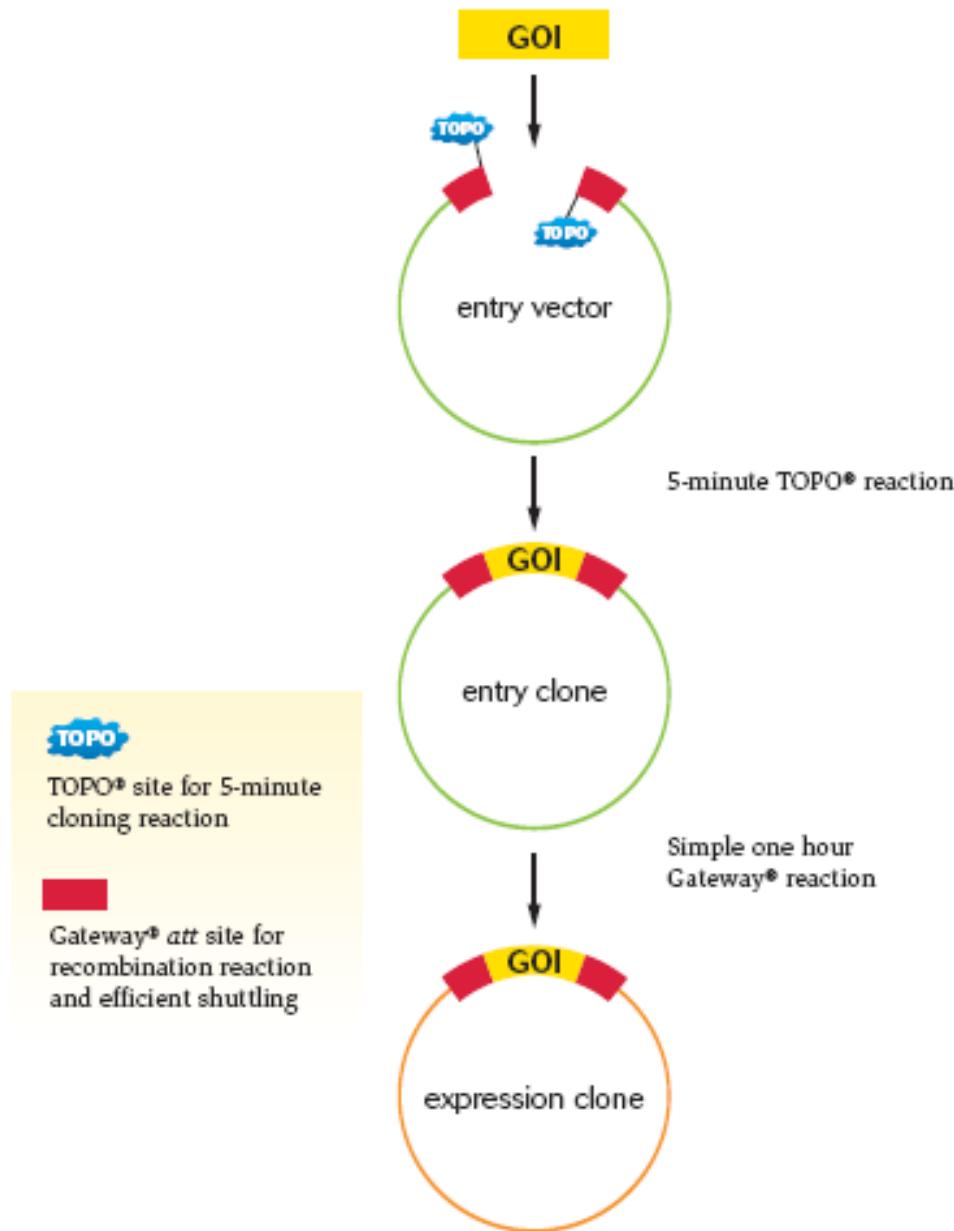


Figure 1 - TOPO TA Cloning® of *Taq*-amplified DNA

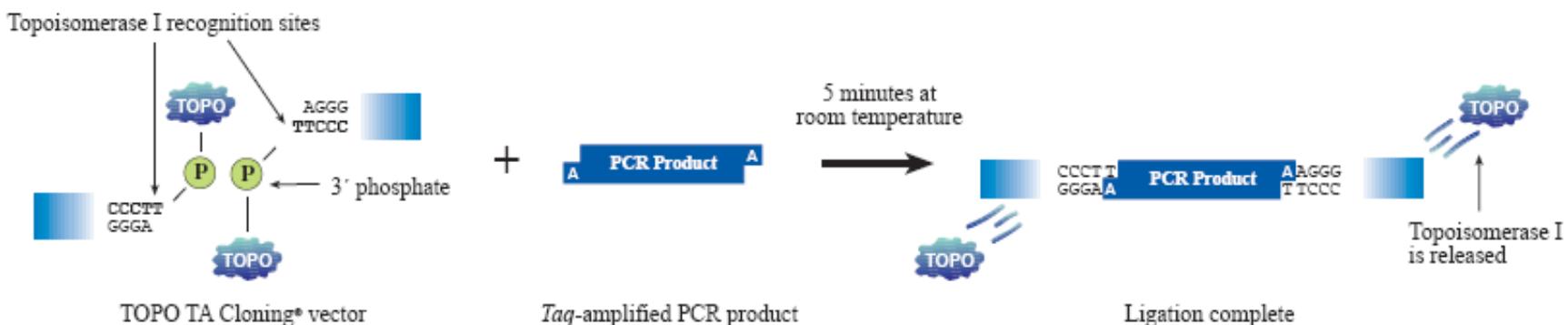
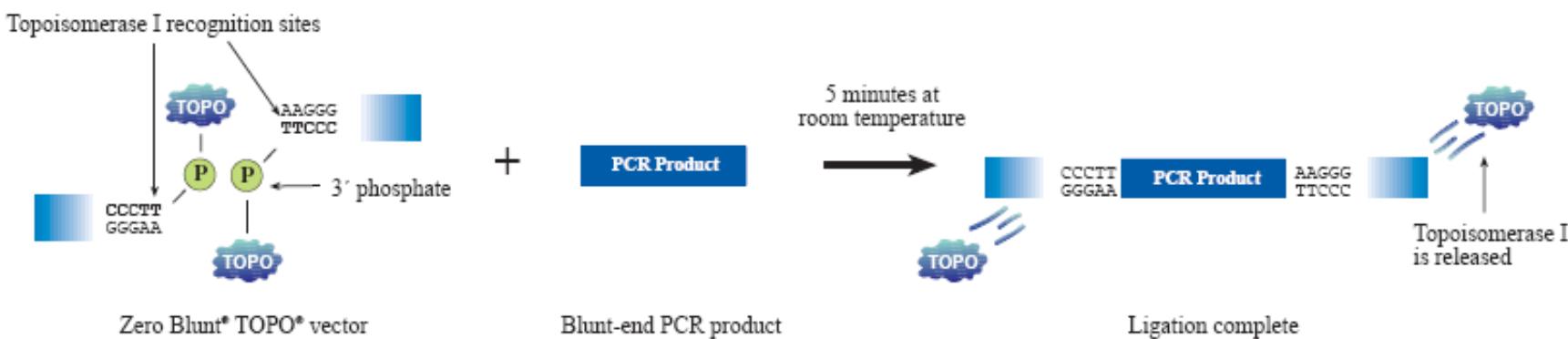


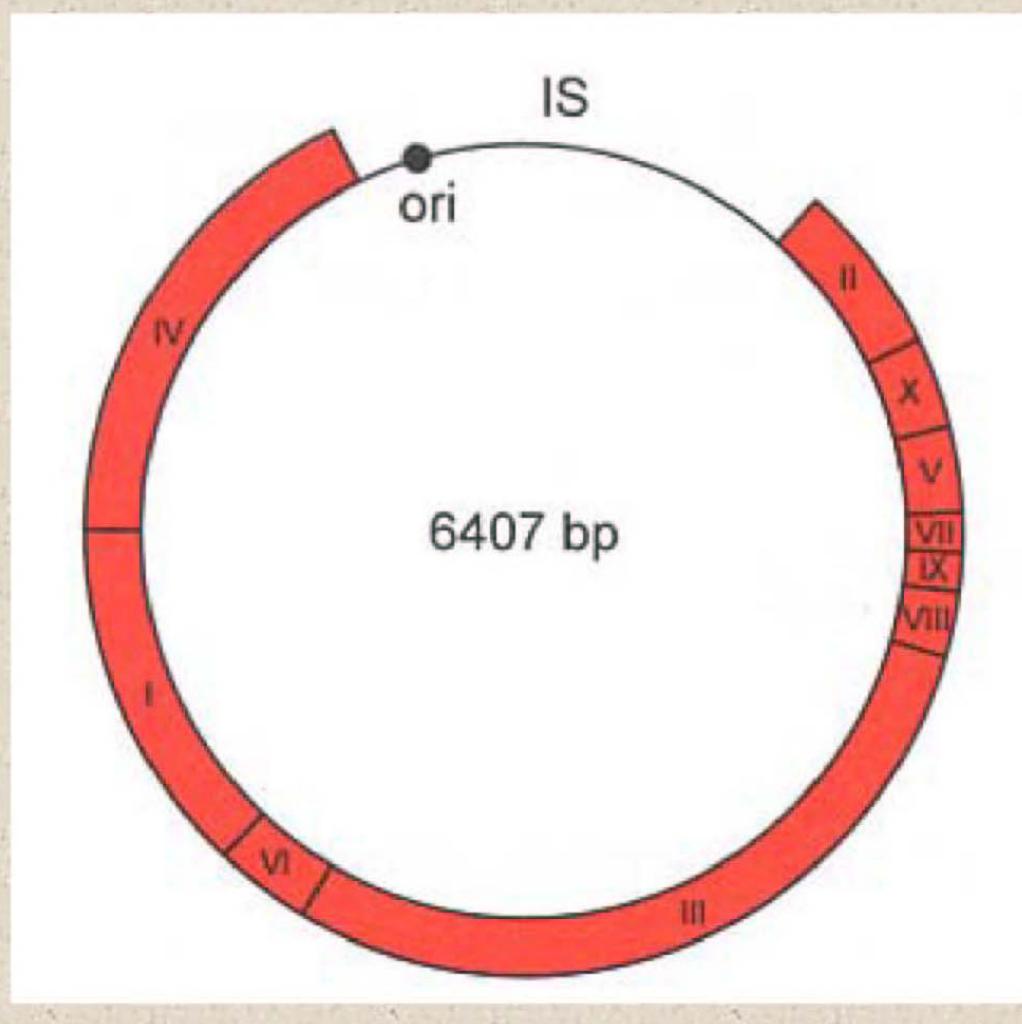
Figure 2 - Zero Blunt® TOPO® Cloning of blunt-end DNA



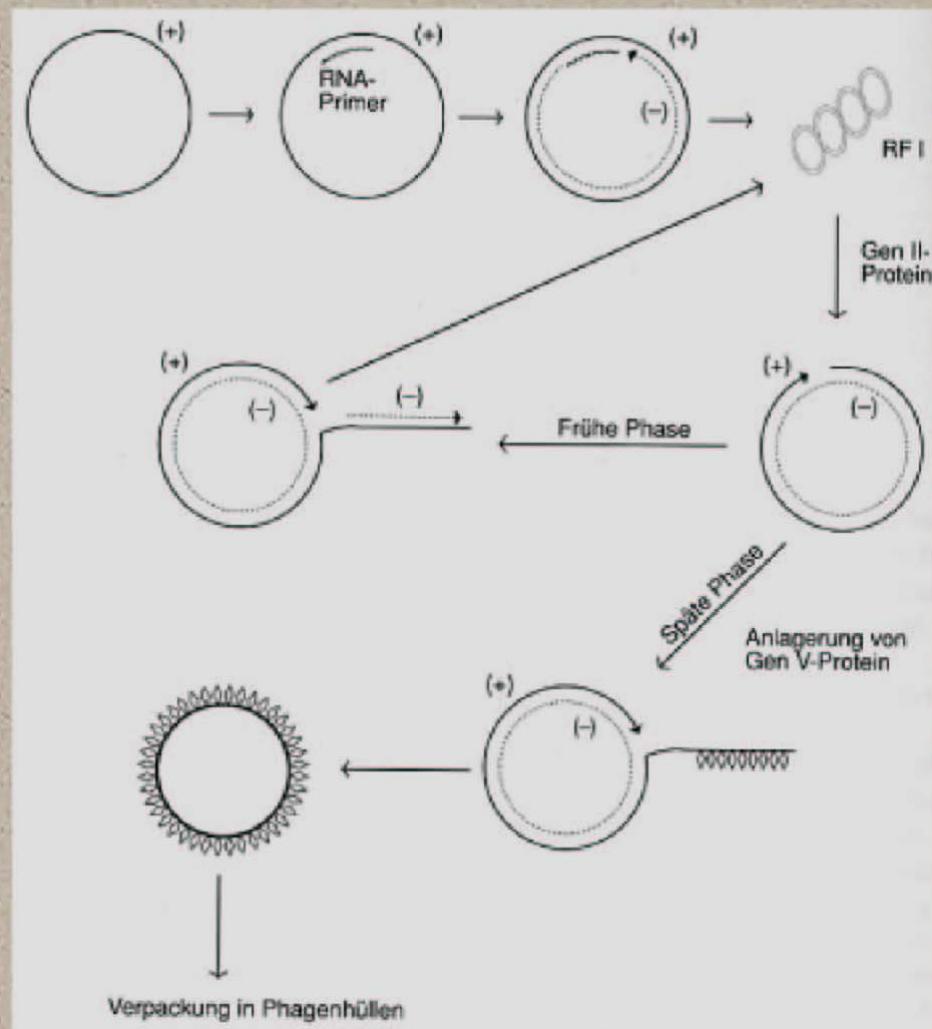
Vektoren auf der Basis von Bakteriophagen

M13/f1-Phage
 λ -Phage
P1-Phage

Bakteriophage- M13



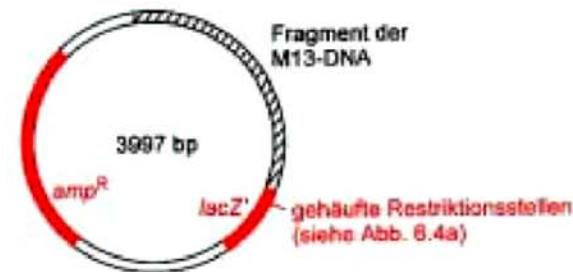
Bakteriophage-M13, Replikation



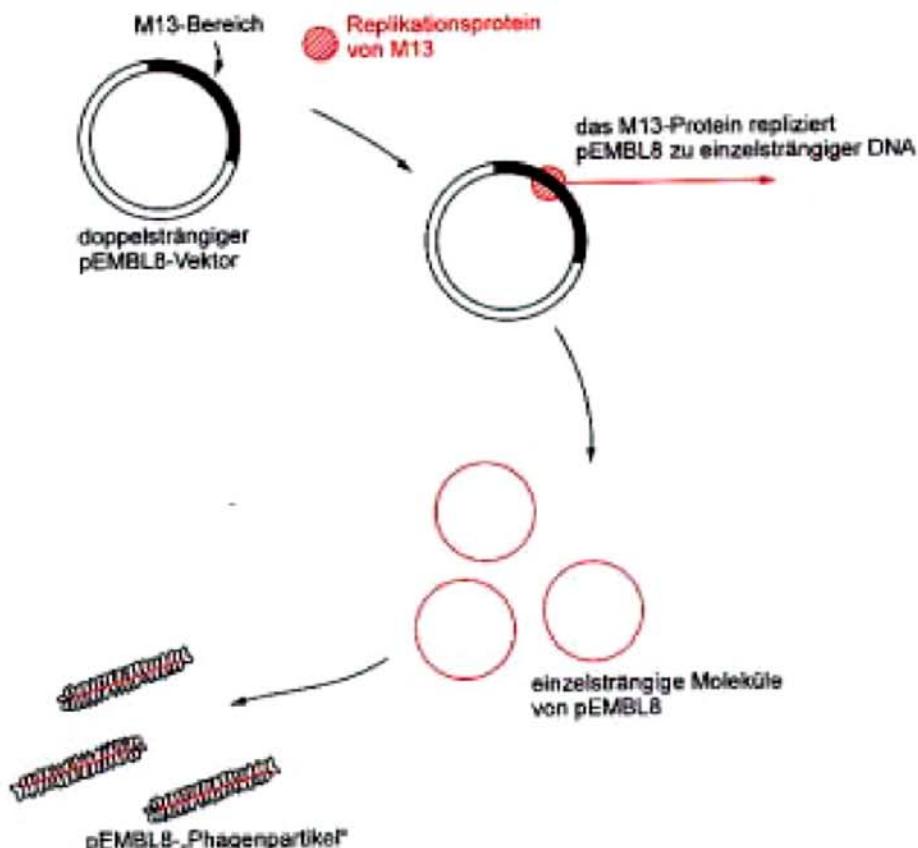
Konstruktion eines Phagemids

I. Grundprinzipien der DNA-Klonierung

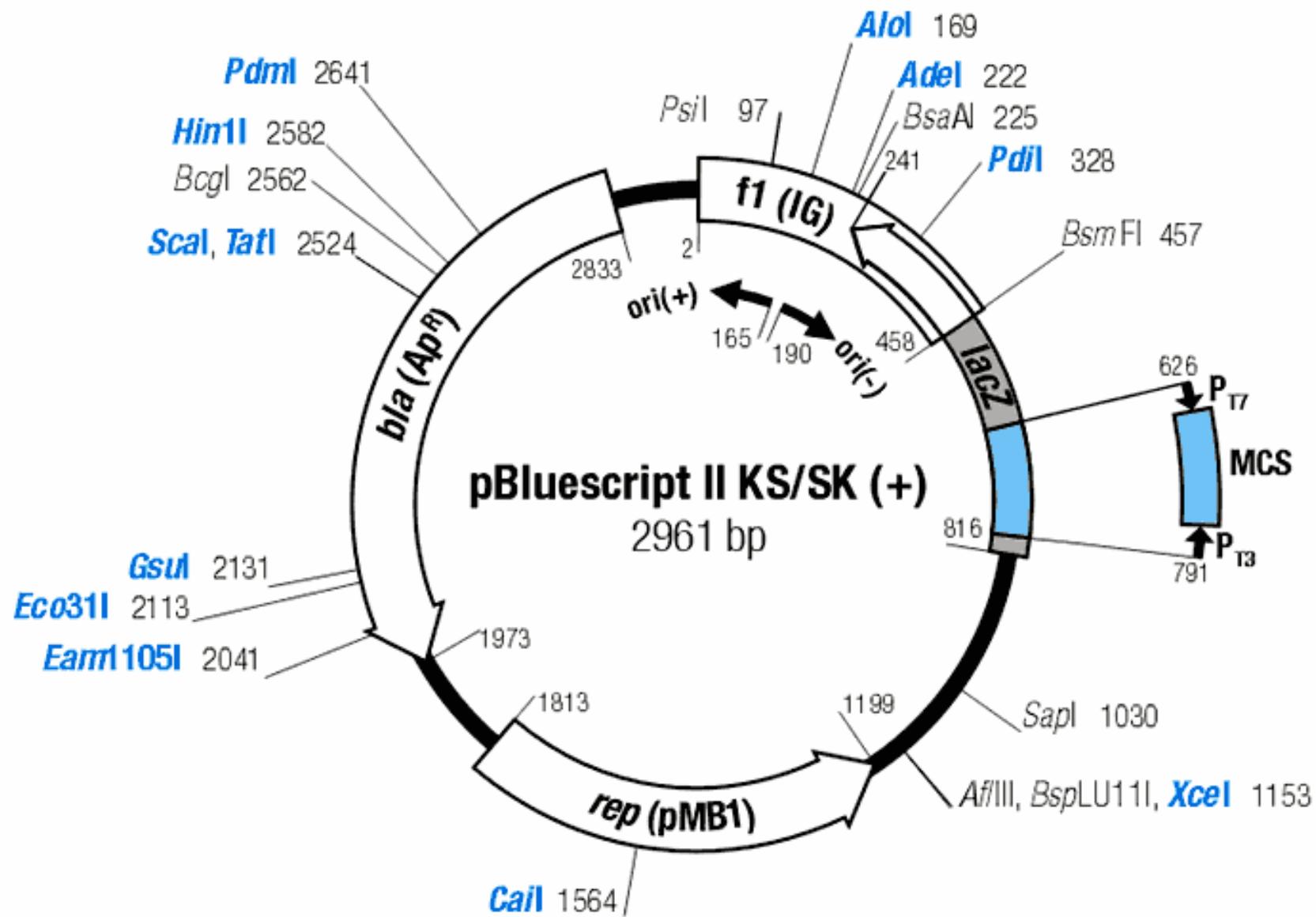
a. pEMBL8



b. Umwandlung von pEMBL8 in einzelsträngige DNA

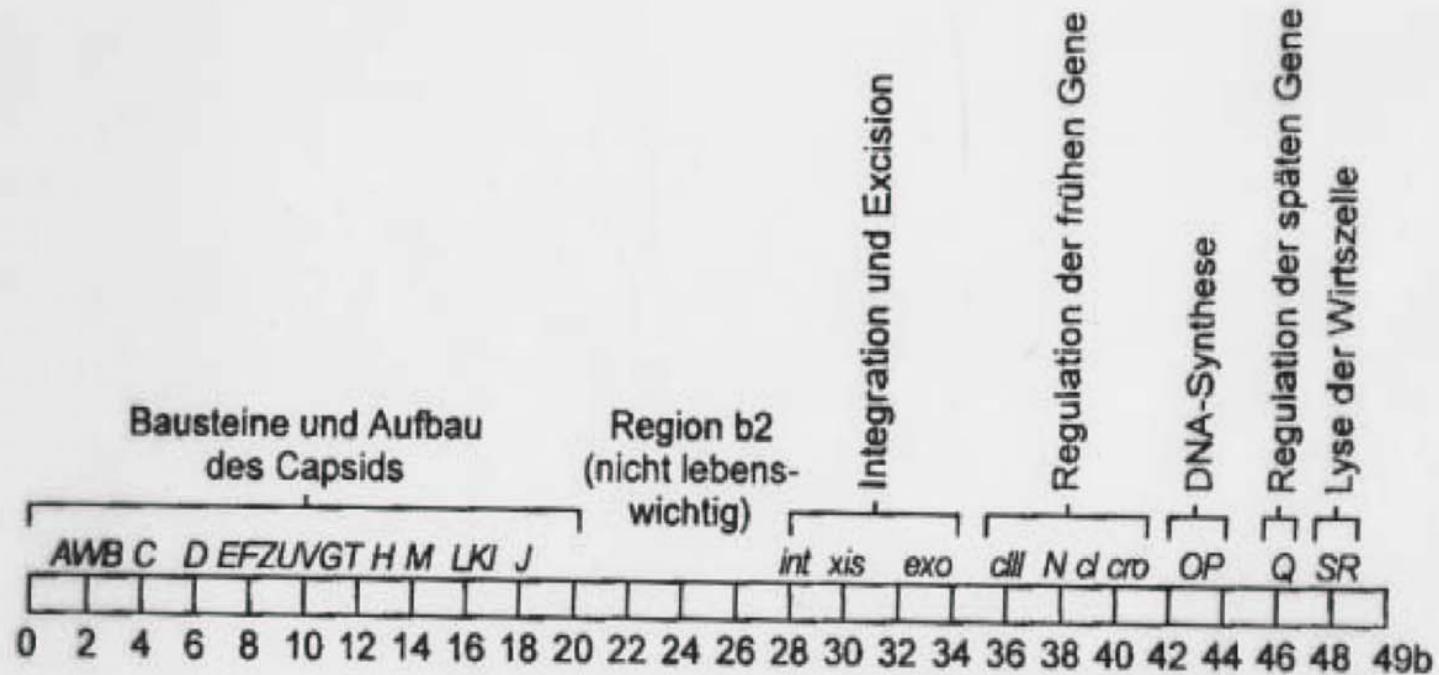


pBluescript, ein klassisches Phagemid



Bakteriophage λ

Genkarte



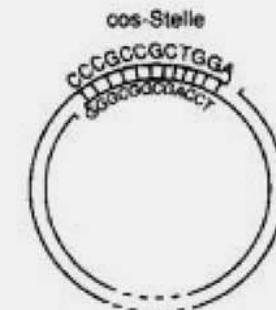
2.9 Die Genkarte von λ . Eingetragen sind die Positionen der wichtigsten Gene und die Funktionen der Gengruppen.

Bakteriophage λ Infektion und Replikation

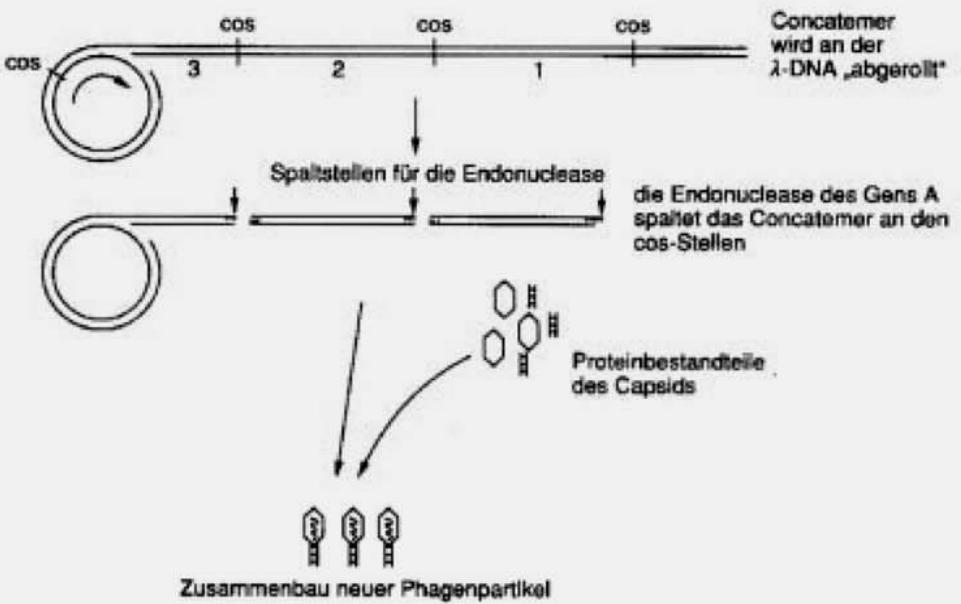
a. λ -DNA in gestreckter Form



b. λ -DNA in Ringform

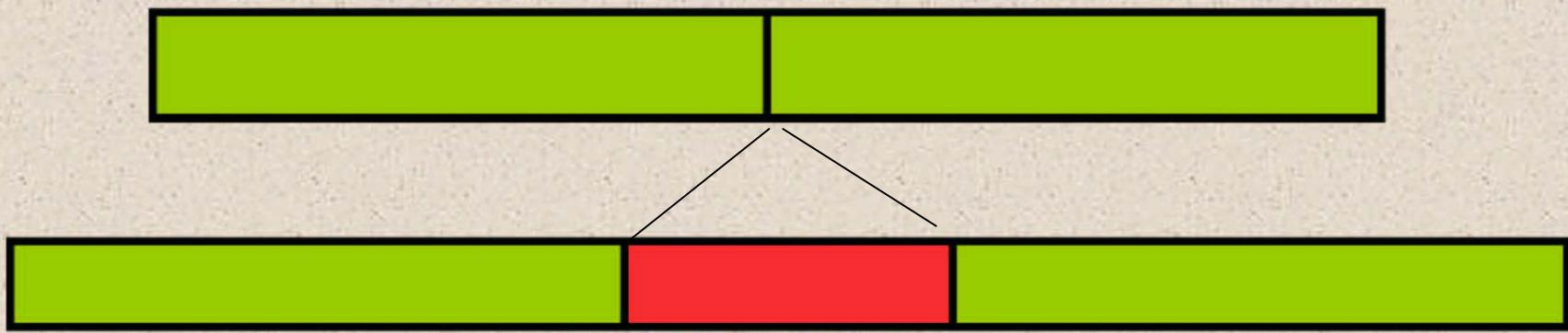


c. Replikation und Verpackung der λ -DNA

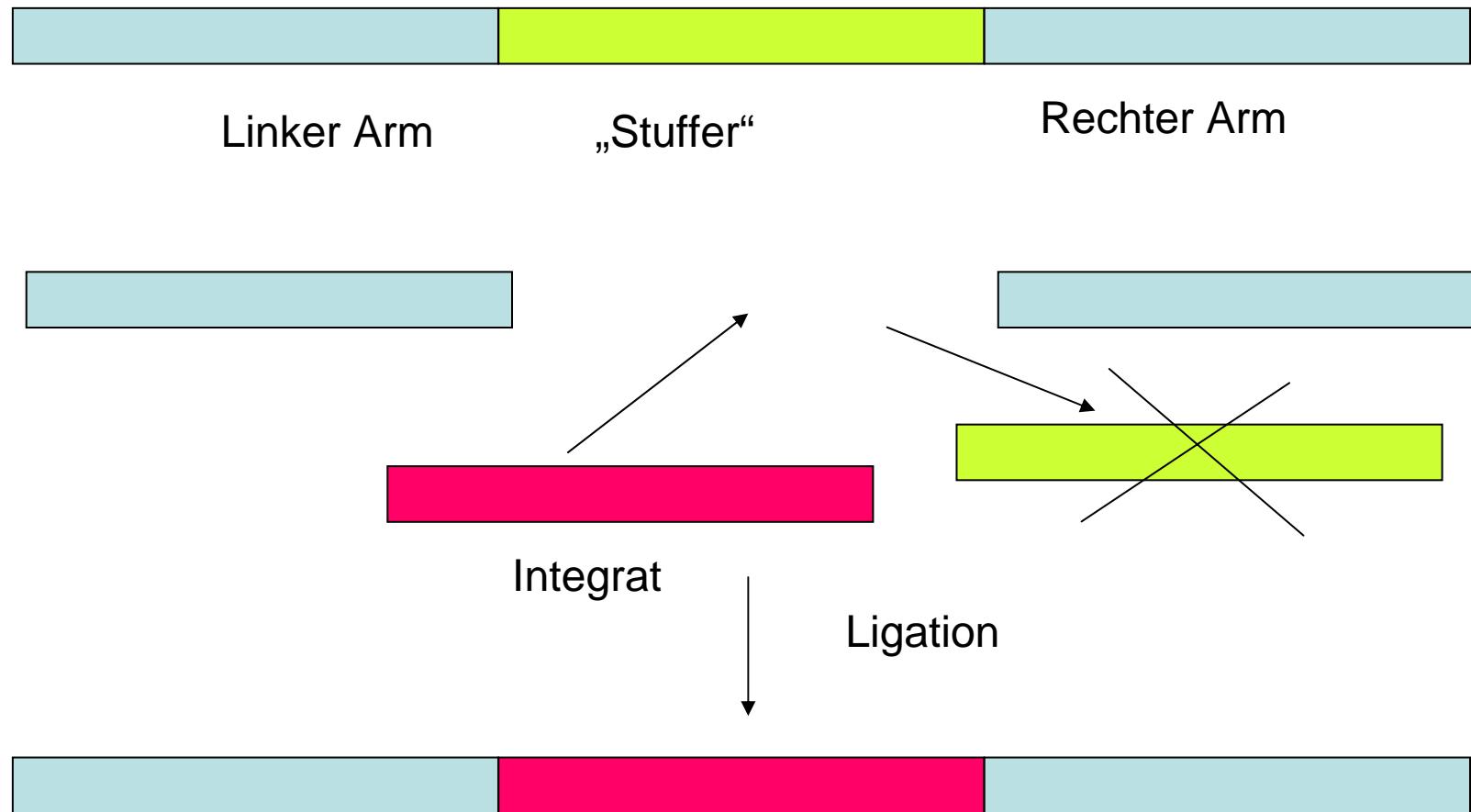


Bakteriophage λ

Integrationsvektoren



Substitutionsvektoren



Lambda gt10/11

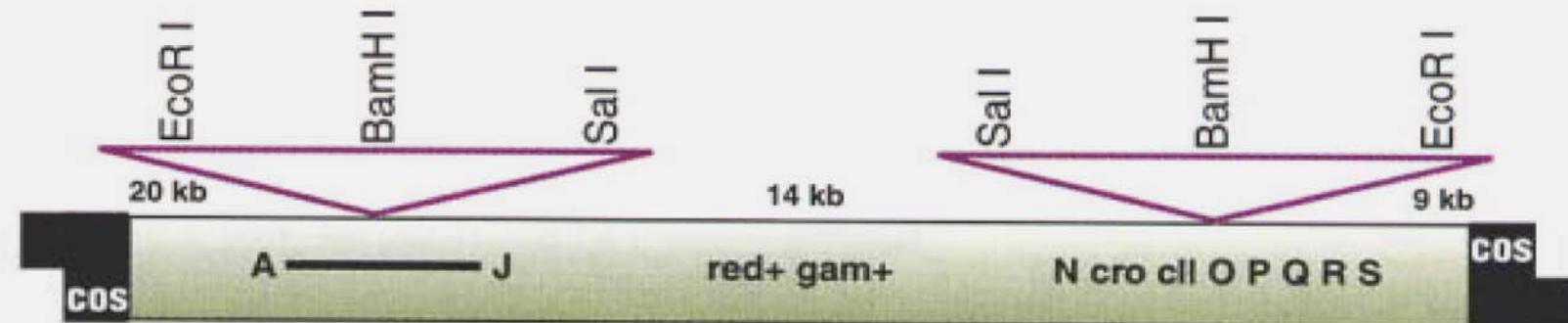
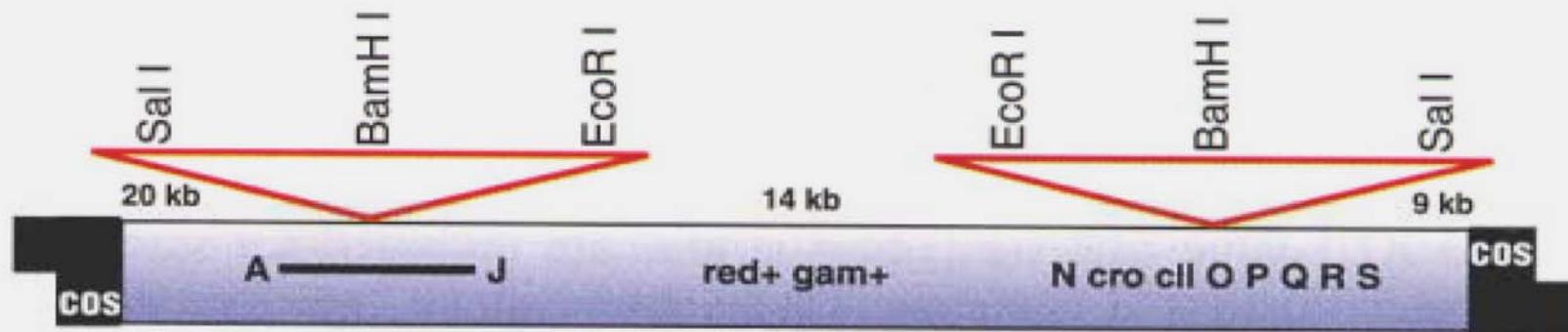
The Lambda gt11 Vector

- Predigested with EcoR I
- For construction of cDNA libraries



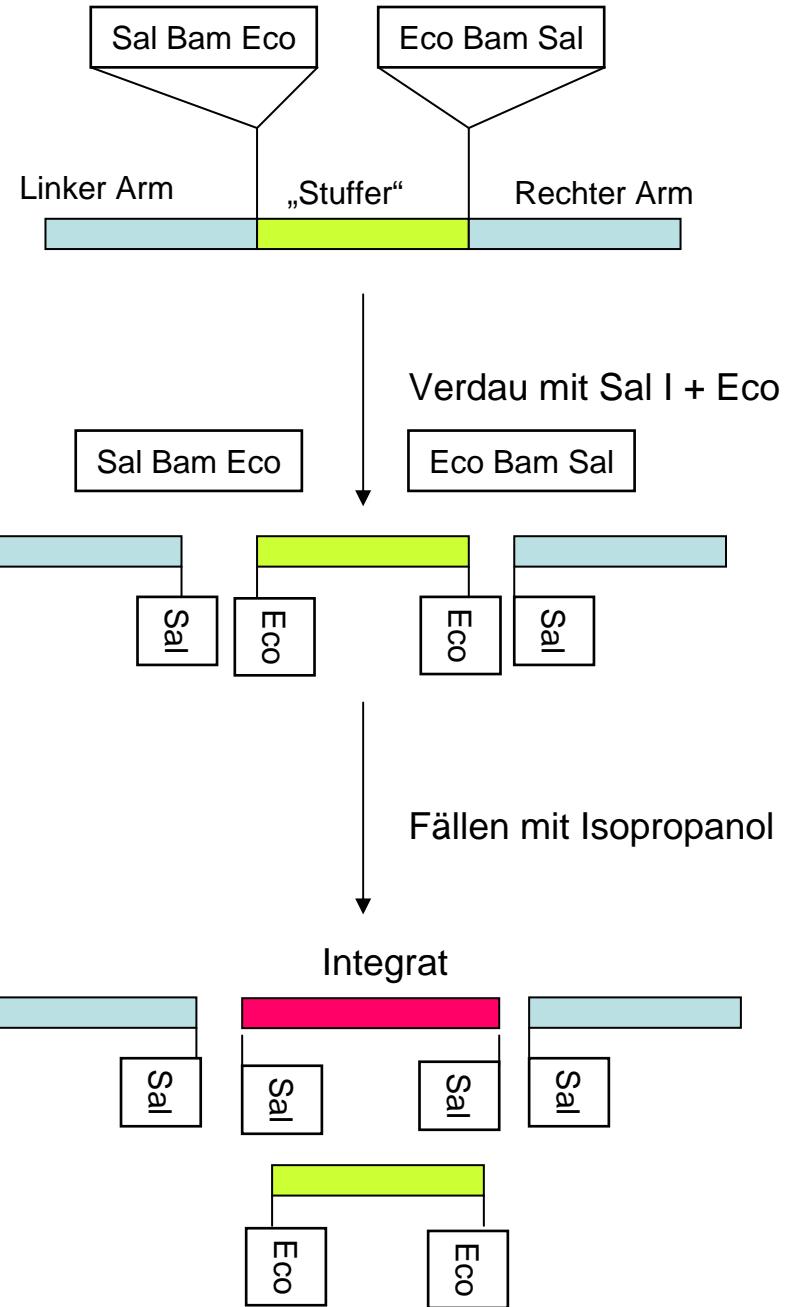
CLONING CAPACITY Capacity of 7.2 kb

Lambda EMBL3/4



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

