

# Bi8313: Praktikum z genového inženýrství (jaro 2017)

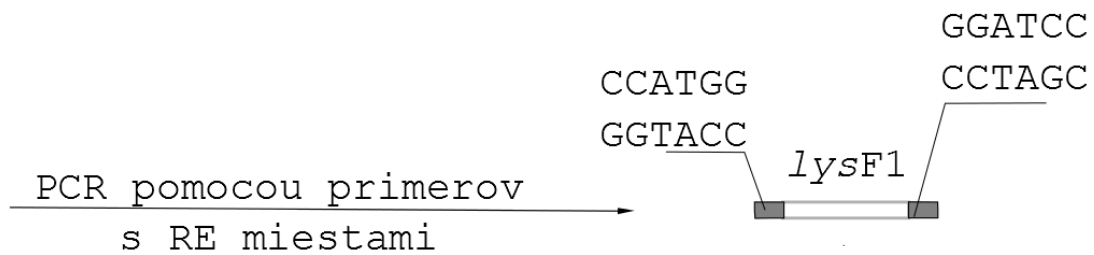
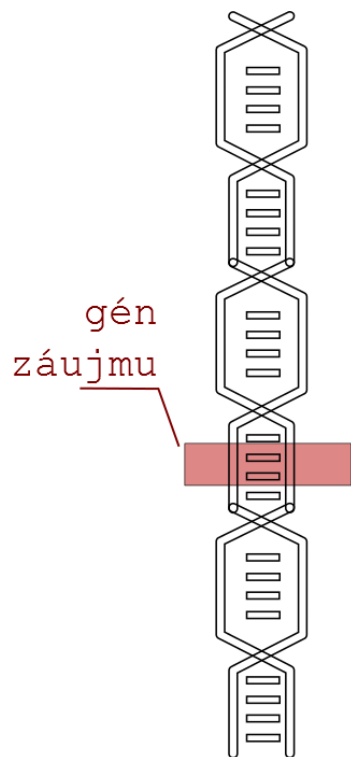
---

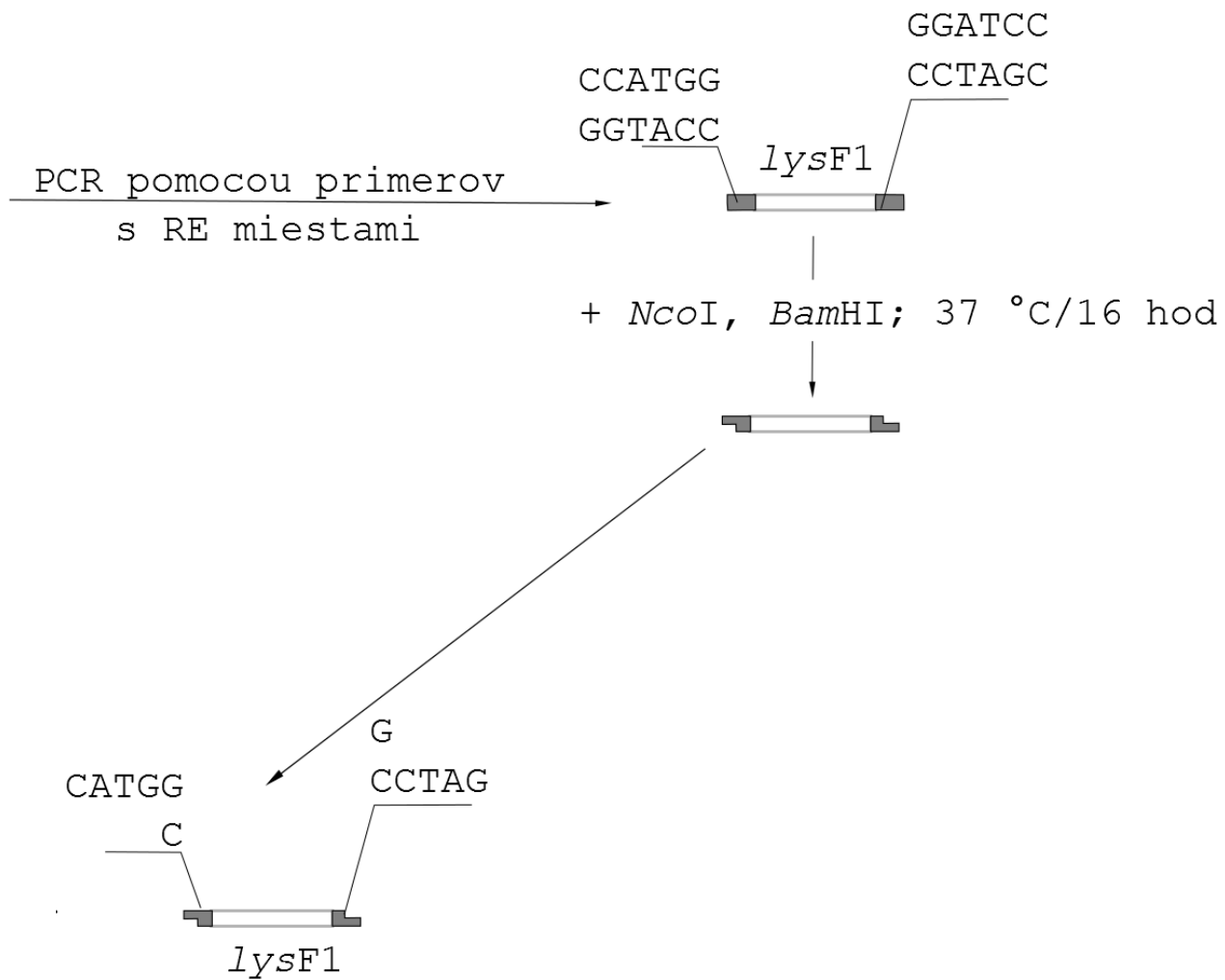
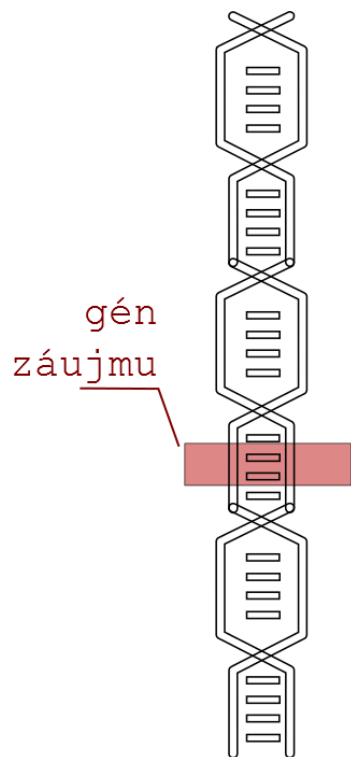
## Úvod do klonování

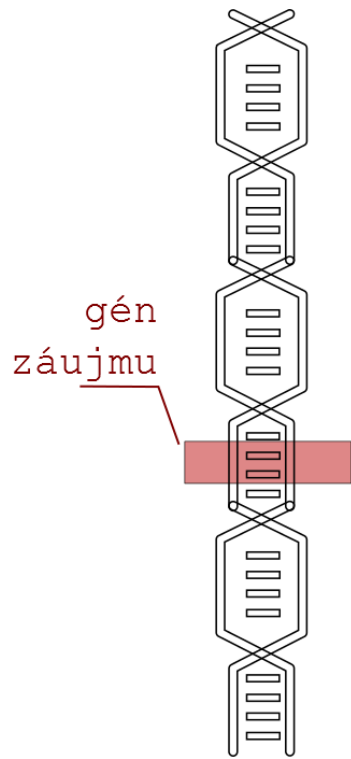


MASARYKOVA UNIVERZITA  
PŘÍRODOVĚDECKÁ FAKULTA  
ÚSTAV EXPERIMENTÁLNÍ BIOLOGIE  
LABORATOŘ MOLEKULÁRNÍ DIAGNOSTIKY MIKROORGANISMŮ

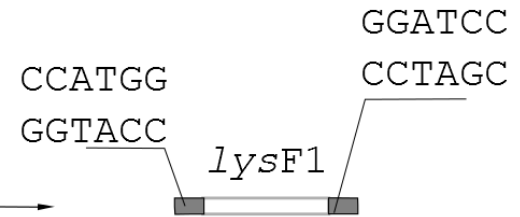
# **POSTUP KLONOVANIA**



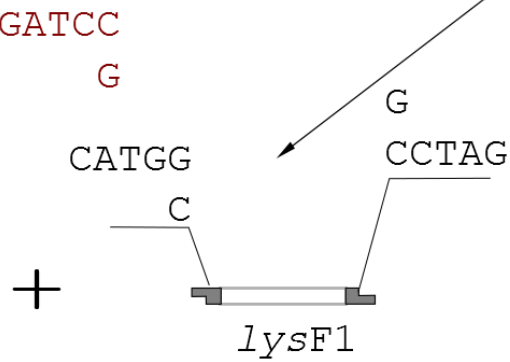
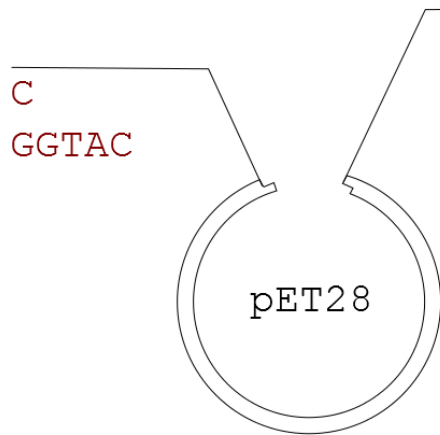
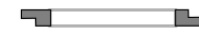


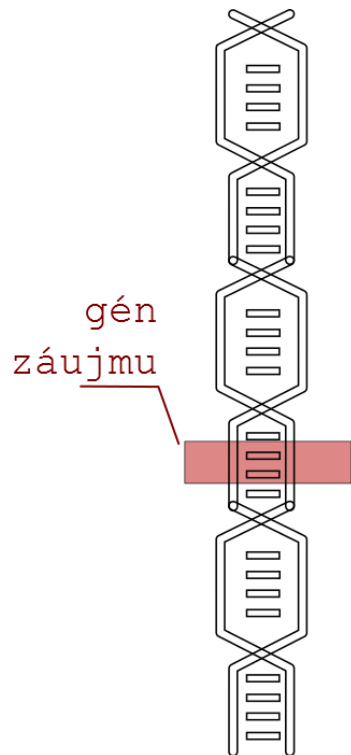


PCR pomocou primerov  
s RE miestami

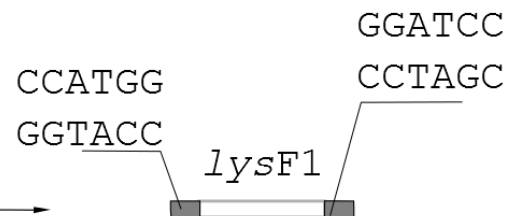


+ *NcoI*, *BamHI*; 37 °C/16 hod

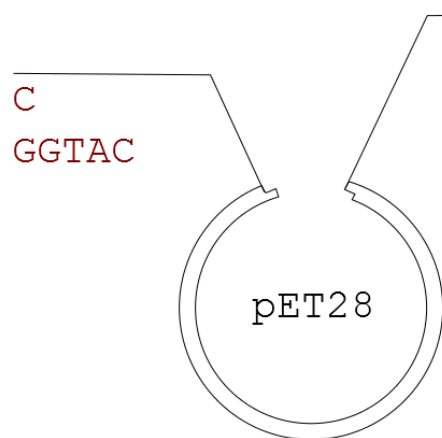
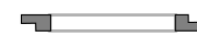




PCR pomocou primerov  
s RE miestami



+ *NcoI*, *BamHI*; 37 °C/16 hod



GATCC  
G

CATGG

C

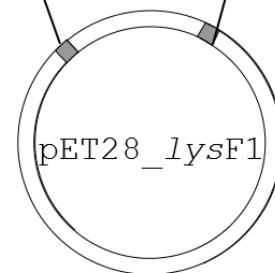
+

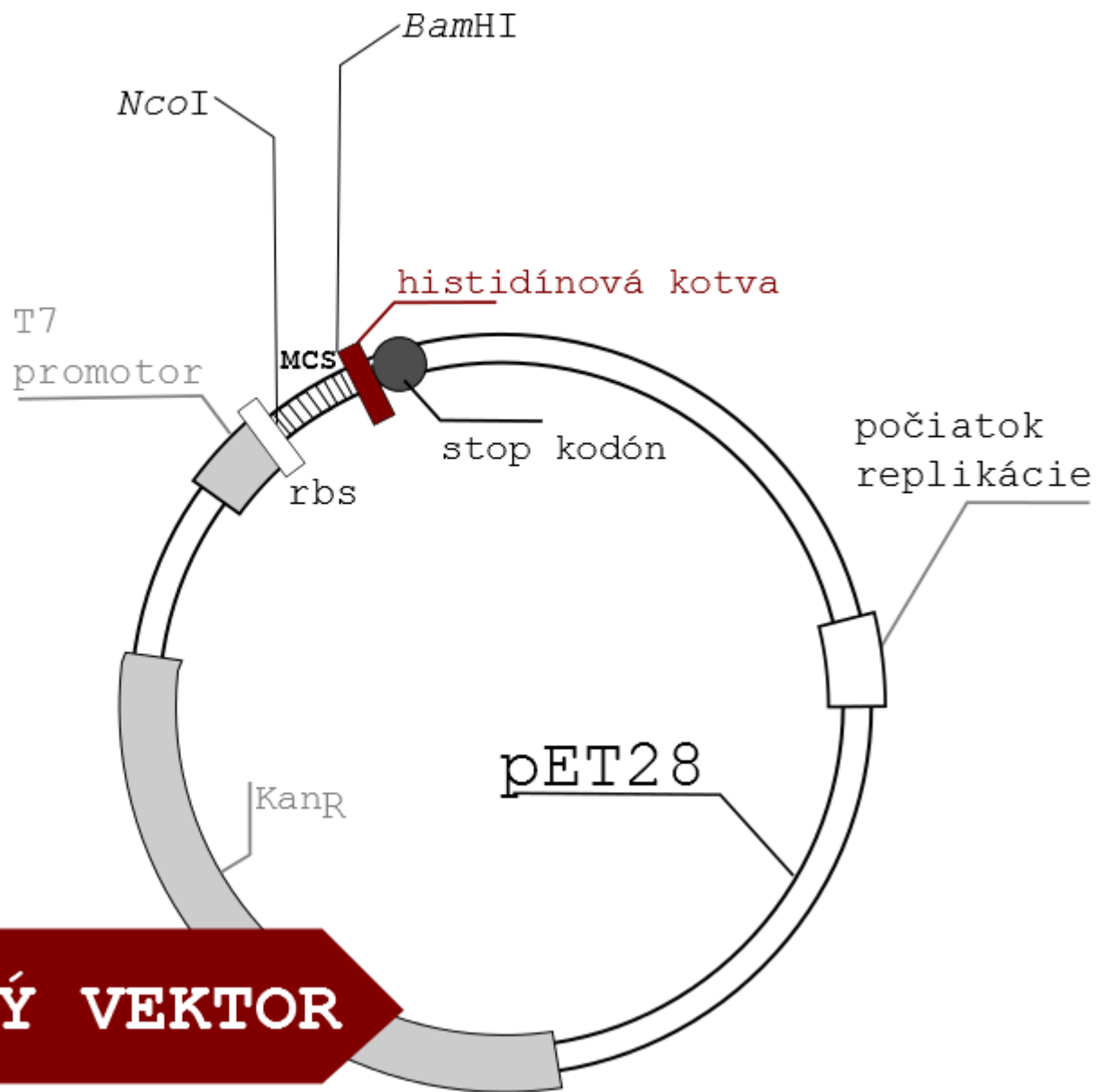
*lysF1*

+T4 ligáza  
22 °C, 60 min

G  
CCTAG

GGATCC  
CCTAGG  
CCATGG  
GGTACC

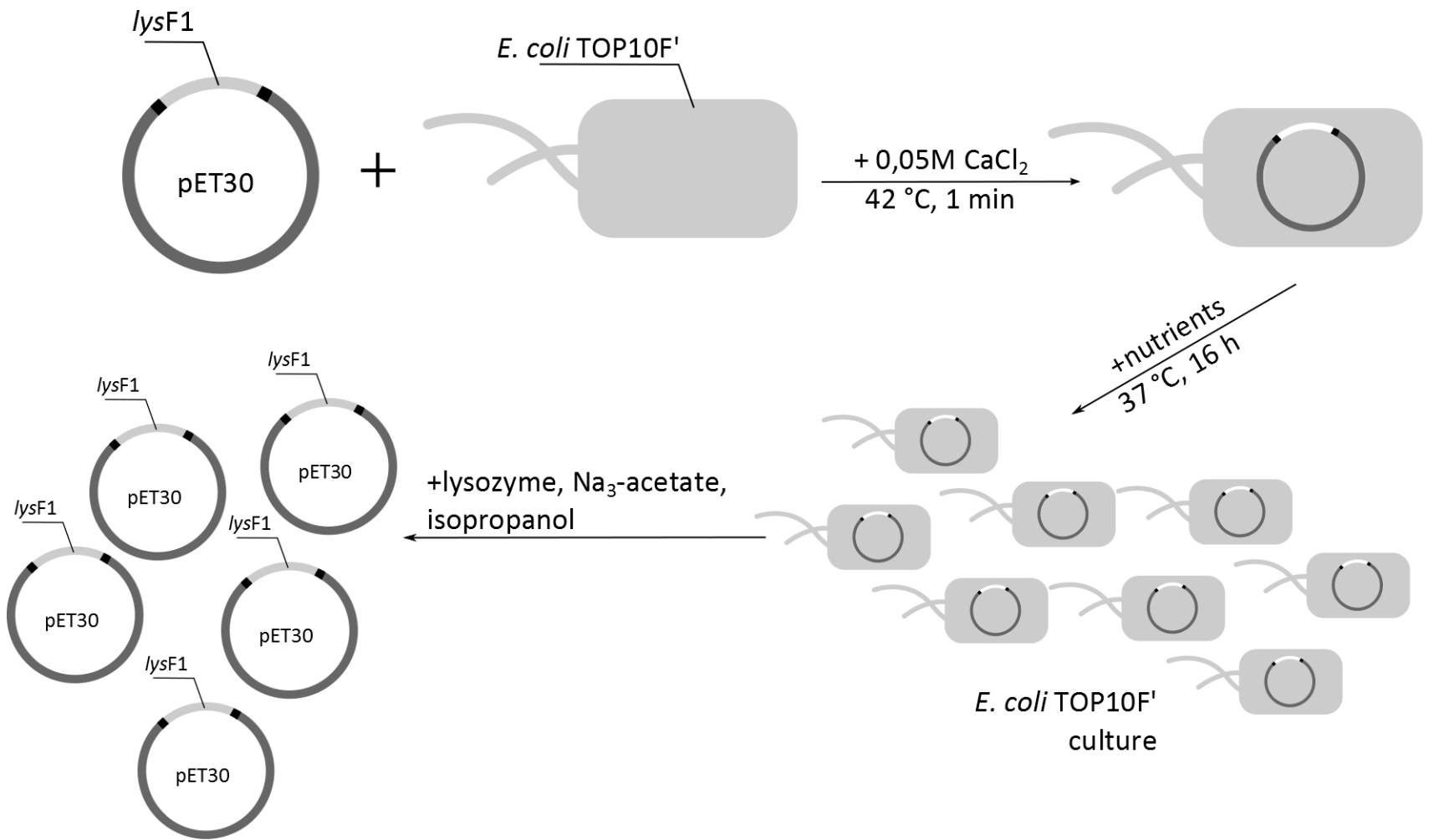


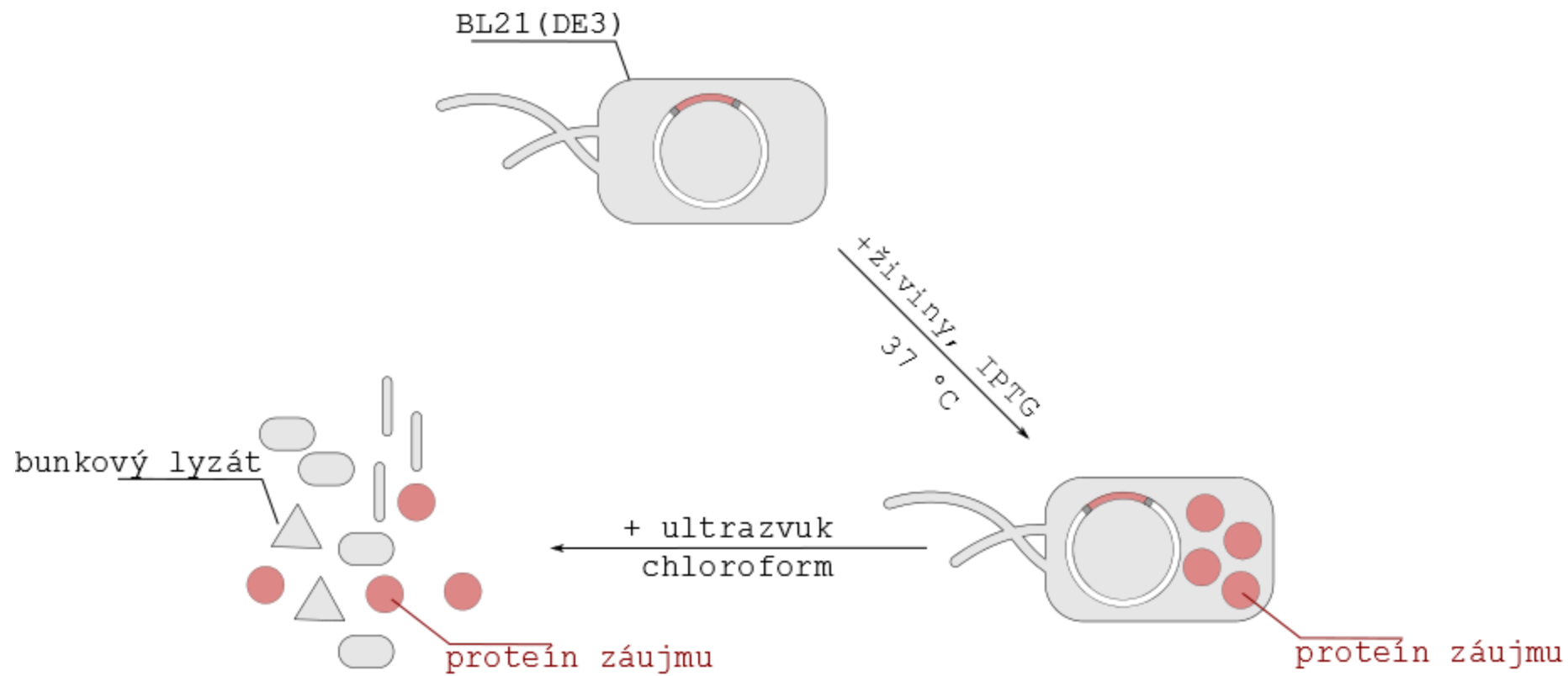


**EXPRESNÝ VEKTOR**

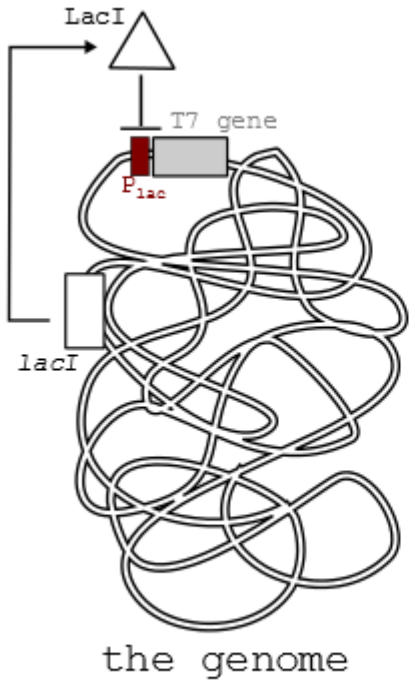
# TRANSFORMÁCIA *E. COLI*



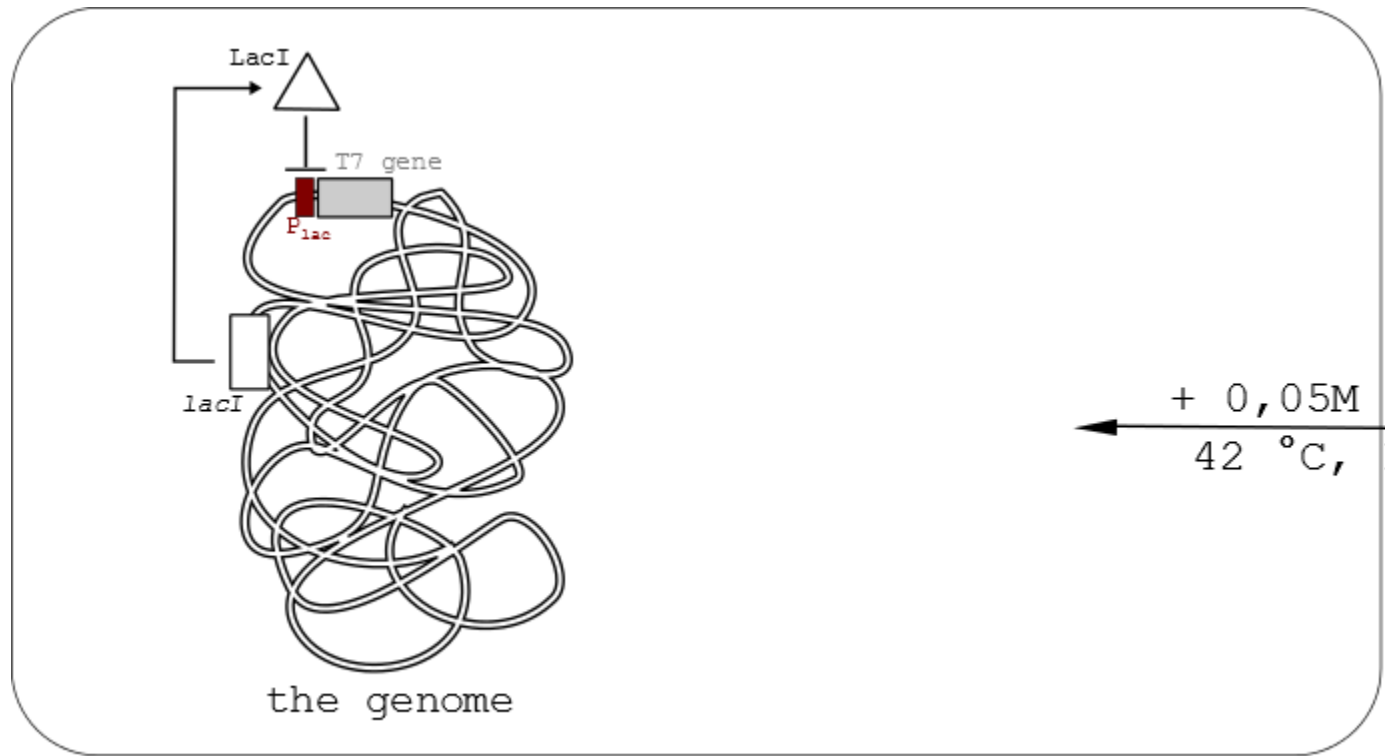




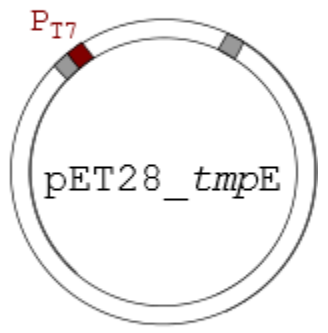
**EXPRESIA GÉNOV V *E. COLI* BL21 (DE3)**



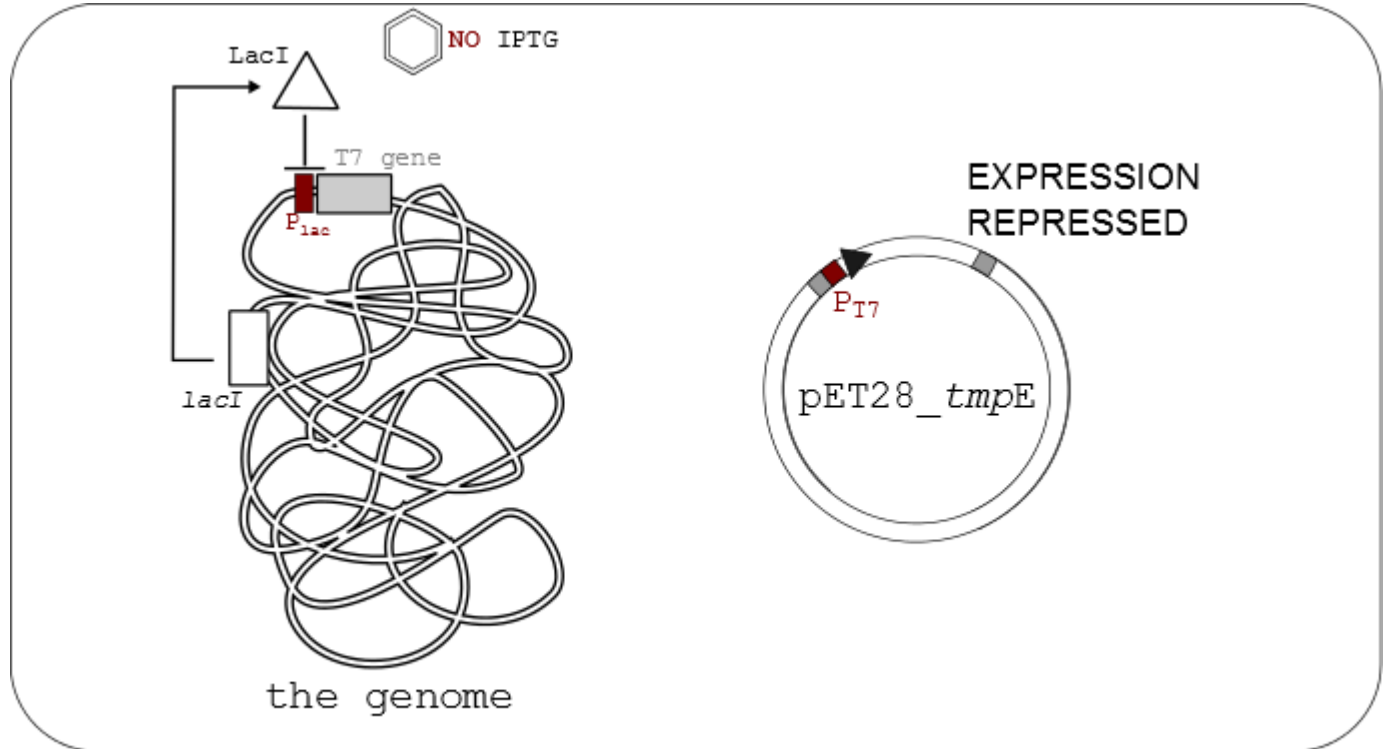
*E. coli* BL21 (DE3)



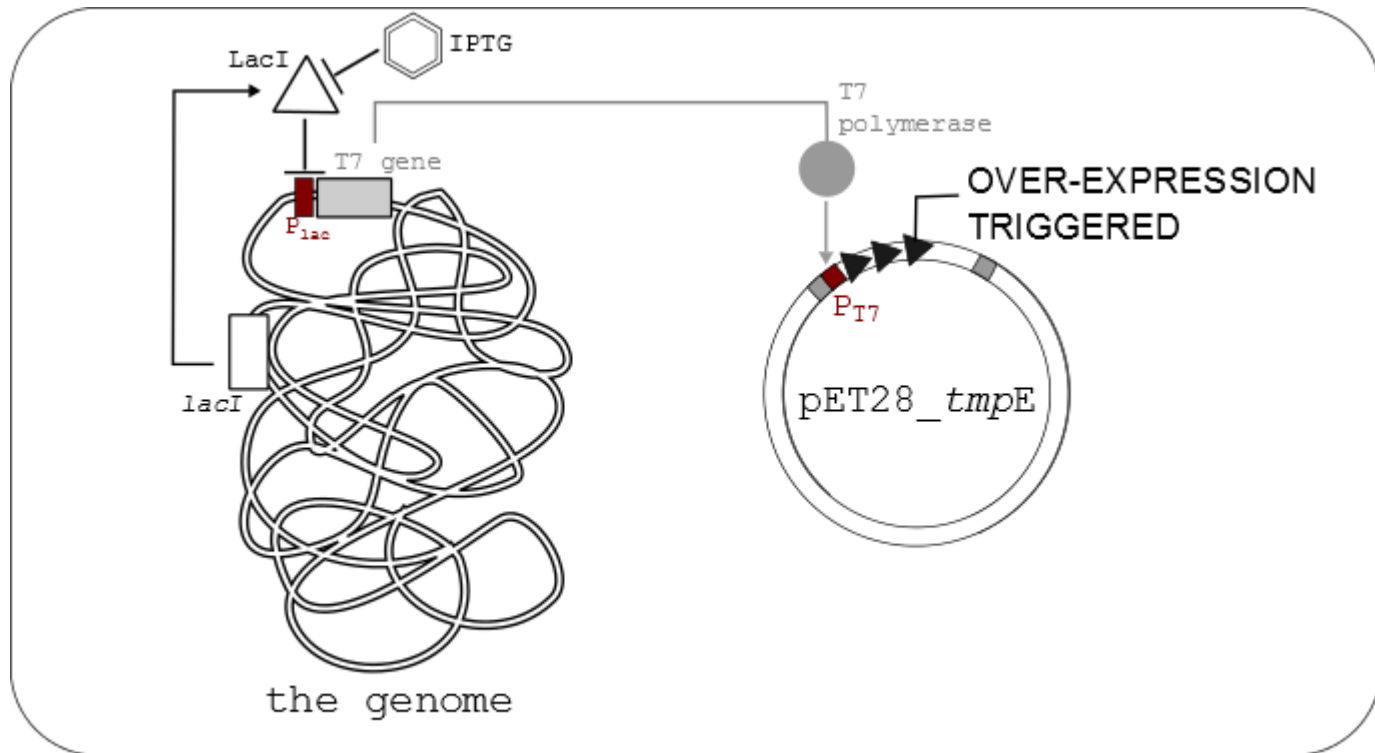
← + 0,05M  $CaCl_2$   
42 °C, 1 min



*E. coli* BL21 (DE3)



*E. coli* BL21 (DE3)



*E. coli* BL21 (DE3)