## other stuff (bacteria chromosomal onA, Som Purpose " Isolate plasmid DNA Miniprep - explain name

- miniprep AGIIII transformants (to 10 correct dones)

- Questions from Day 3

Day 4 Agenda

-transformation

- P CR

ara lac 2 + control Analysis of PCR

Miniprep Protocol

bacteria DNA - lange, less supercoiled -> selective ppt of placmid DNA Plasmids - small + superwiled

s) add Isopropanol-ppt ONA - spin Ionic (-) ONA soluble in Hzo but not organic solvents

20% Has allows salt in pellet to dissolve Etolt allows evaporation after pelleting wash peter 7 - spin

7) resuspend in TE WRNAKA RNAKA - degrades EDTA - CLAINTED MA Tris - buffer

1) spin - collects cells - resurpend in buffer NaoH: hipH denatures macromolecules interarns that maintain destabilizes hydrophobic 2) add Na OH / SDS - CELLS 14SE disrupts membranes conformation SDS: ionic detergent:

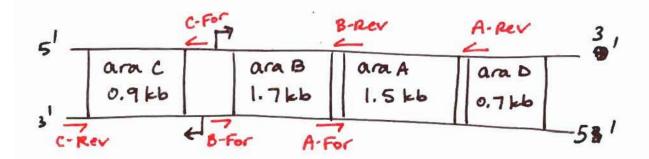
- mor viscous as more molecules solutie - DON'T VORTEX! Why not? Chromosone ONA by changing ionizable groups - clearing when cells lyse

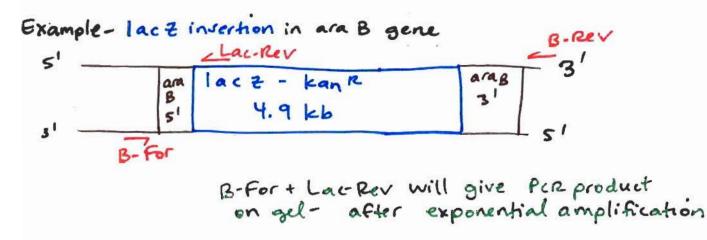
but bacteria DNA, protein can't macromolecules try to renative renature or stays in solu low pH neutralized NaOH non specifically + ppt plasmid - small superusited too big - form bonds 3) add potassium acetate

4) spin - perlet debris

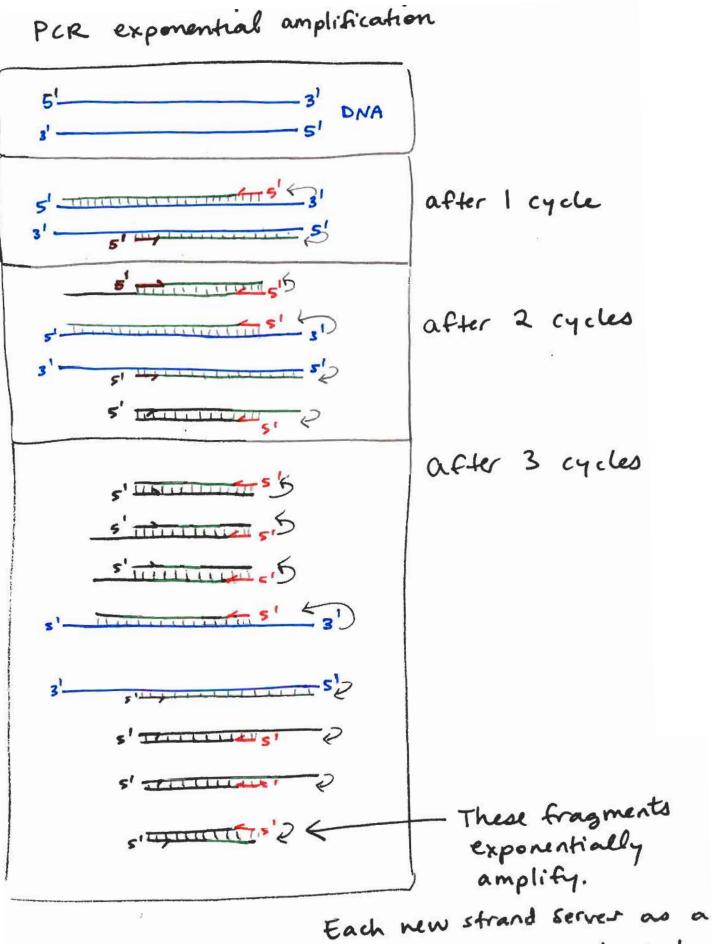
DNA in sup!

PCR results will tell where transposon inserted during GEN module





B-Fort B-Rev will not since distance between 2 primers too great-only gets linear amplification



template in the next cycle.