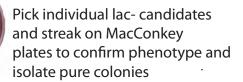


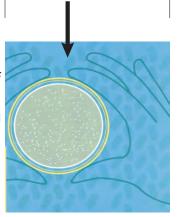
Select for rifamycin resistant mutations (mutant colonies). Measure frequency of rifS --> rifR mutations

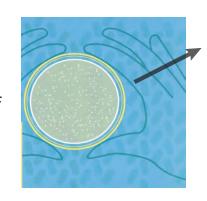
Screen for lac- mutations (mutant colonies) on MacConkey plates Measure frequency of lac+ ---> lac- mutations



Set up liquid cultures of lac- clones

Meaure frequency of lac---> lac+ reverse mutations by plating on selective media





Pick individual colonies streak on rifamycin plates to confirm phenotype and isolate pure colonies





set up liquid cultures of rif-R clones



= template DM7

gene or sequences to
be amplified

primers

pcr Product

Use PCR to amplify DI a portion of the gene coding for RNA polymerase (target of rifamycin)



Send PCR products out for sequencing

