TOP-10cc

A streamlined cloning system with inducible copy-control

The Cloning Dilemma

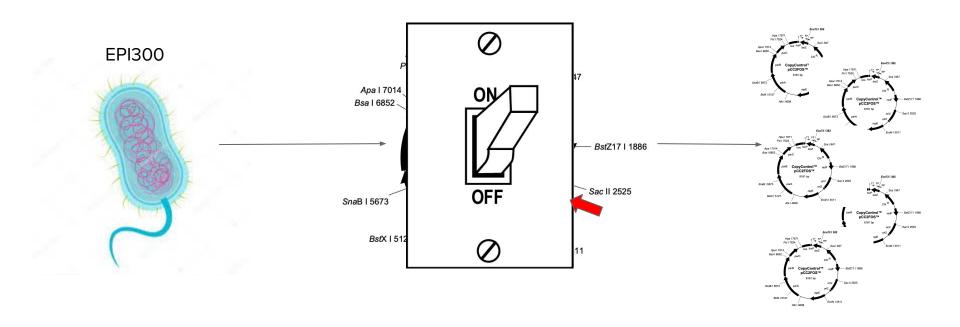
High Copy

- Toxic InsertsMutated or Empty Inserts
 - Insert Instability (AT, GC rich regions)
 - Insert Size (>10kb)

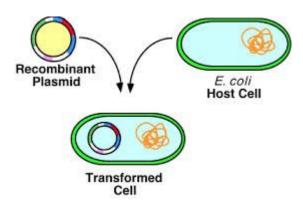
Low Copy

Not enough plasmid for purification

Flipping the Switch

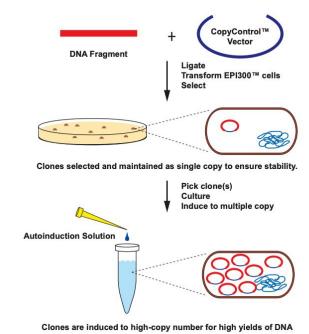


What's Wrong?

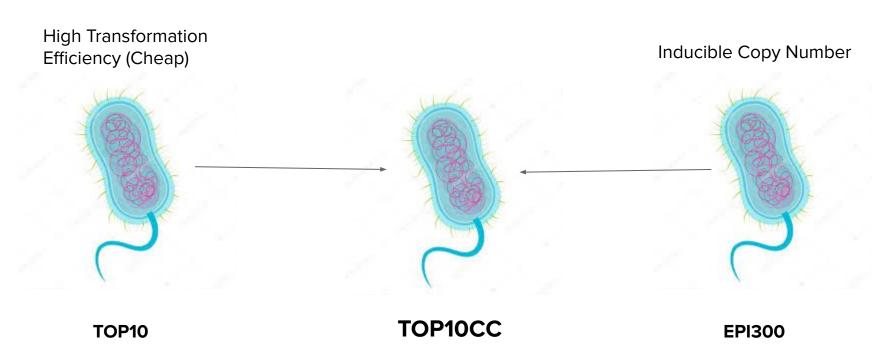




Low Transformation Efficiency (EPI300)



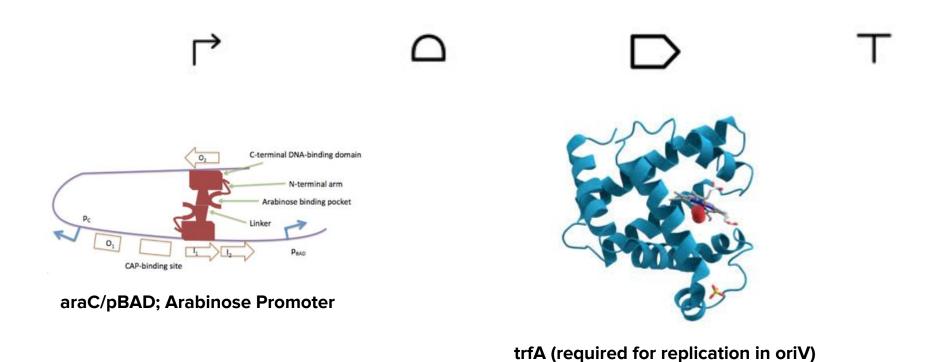
Engineering a Solution

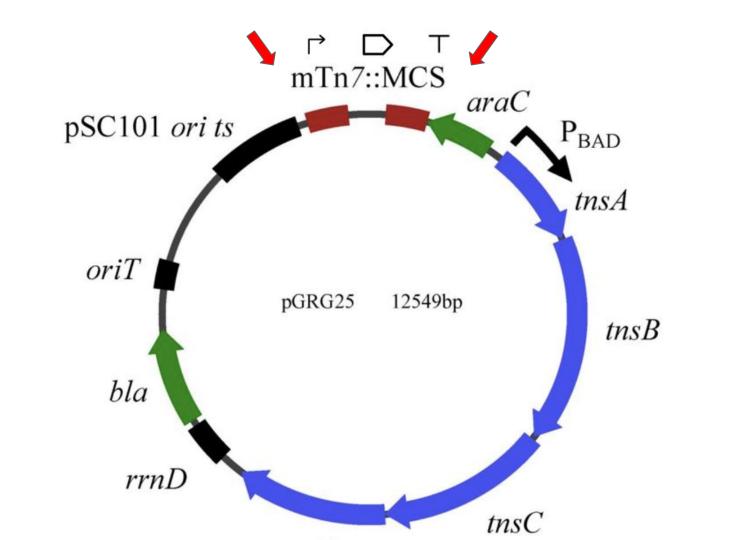


Mission

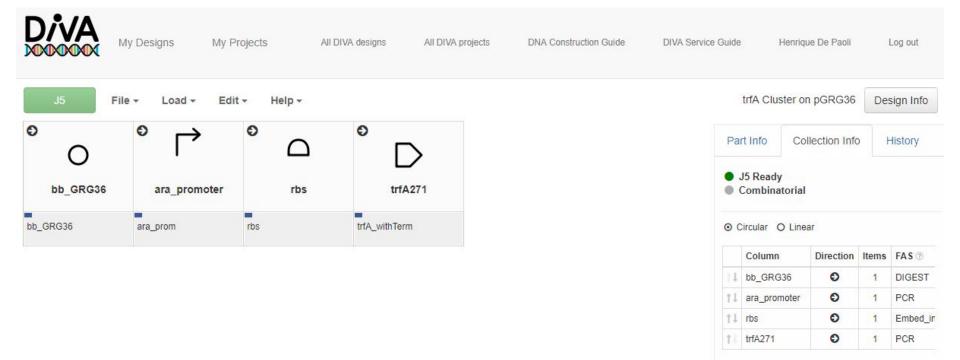
A Tightly Regulated Operon that Induces OriV

The Parts





Design Overview



A One Stop Shop

One Strain from Assembly to Application