

Strains of E. coli to use

9-7-87 TO Do

Strain of E. coli to use

- To make cDNA library
To make plasmid DNA prep for transformation of mammalian cells

Use DH1, Prepare competent cells by Okazaki method
0.30-1.0 x 10⁹ Transformants
2) Pub OK + PBR322
SCS1 (1x10⁹)
or use DH1 (our prep)

$\boxed{\text{recA}^+ \text{ endA}^- \text{ RK}^+ \text{ E. coli}} \oplus$
 $\boxed{\text{merA}^+ \text{ merB}^+ ?}$

- To transform E. coli with DNA that is replicated in mammalian cells

- Don't have a $\text{recA}^+ \text{ merA}^+ \text{ merB}^+ \text{ RK}^+ \text{ E. coli}$
 - check E. coli GM 2163 $\text{recA}^+ \text{ or }^-?$

- Use either

- E. coli ER 1451 (= JM 107 with merB^+ mutation)
Call NEB for this strain
= $\boxed{\text{recA}^+ \text{ endA}^- \text{ RK}^+ \text{ E. coli}} \oplus \text{merA}^+ \text{ merB}^+$

Use for brief DNA replication (this is not for mammalian)

Don't use for ~~transformation~~ DNA replication

Derived from DH-1.
Don't grow plasmids long in the E. coli better to shift to $\text{recA}^+ \text{ DH1}$ etc.
OK to shift to DH1 after DNA has replicated (or less growth) in ER 1451
Make good DNA prep from DH1