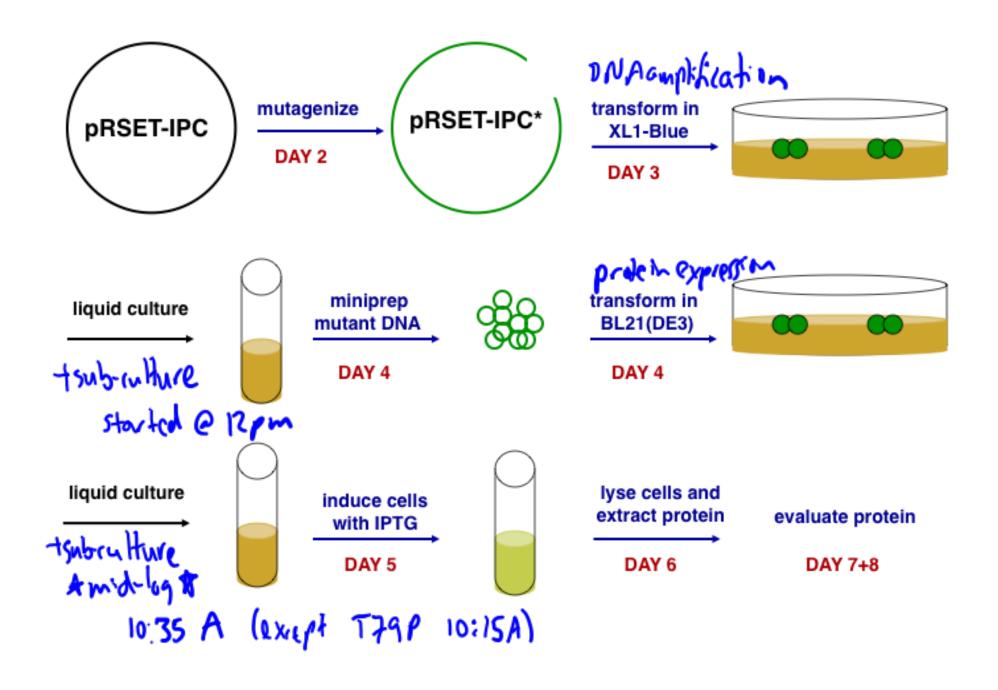
- Announcements
- Pre-lab Lecture
 - Review approach
 - Colony data
 - Genetic control elements
 - Today in Lab (M2D5)

Announcements: revision

- Report revision and reflection due Fri 11 AM
- Resources
 - Agi + Shannon (by appt)
 - Jon (by appt)
 - Writing Fellows (by appt)
 - Writing Lab (Sun-Thu, 7-9 pm, 56-205)
- Jon's comments and guiding questions are excellent; take those Q seriously
 - addressing half the comments in depth is better than addressing all of them shallowly!

Announcements: review

- Conceptual odds and ends
 - why OD-600 (not A-600) for cell density?
- Quiz next time (M2D3-M2D5) 0/6000bg
 - core lecture material (Alan's)
 - NO stats
 - gels and digests
 - cell strains, transformation, and induction

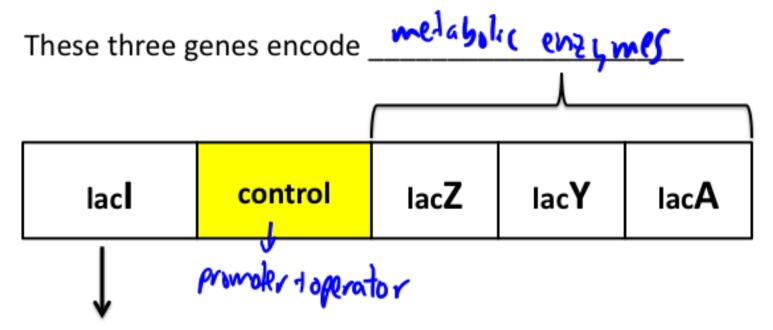


Interpreting class colony counts

Group Colour	no DNA	reference	mutant SDM	experime	nt	no DNA	reference mutant SDM	experiment
Hypothetical Data	0	100		50		0	100	50
Red	0	229		5				
Orange						0	526	1
Yellow						0	658	21
Green	0	433		391]			
Blue								
Pink								
Purple	0	150		2		0	1	0
Platinum	1	352		436				

Please post: these counts are interesting data!

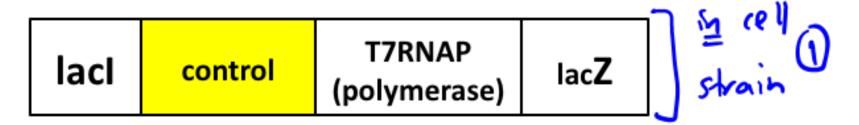
lac operon



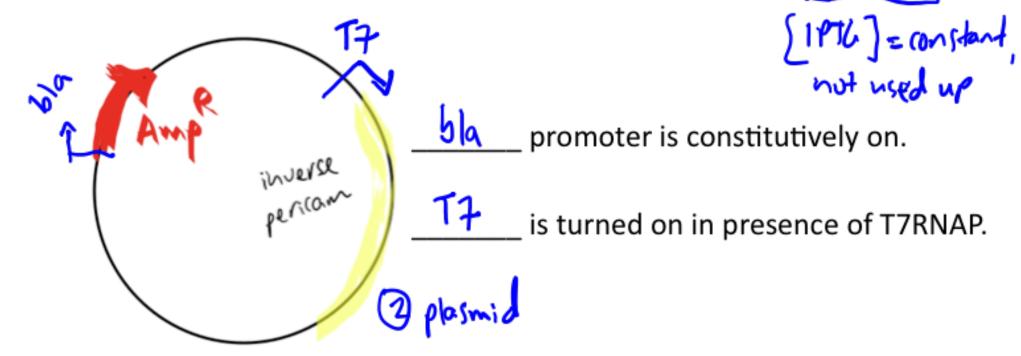
that binds to <u>control oveq</u> turning it <u>OFF</u>.

In turn, if lactose binds to the _repression of _2, 7, A _.

Induction of a chosen protein



19RNA P gene is expressed in presence of lactose or analogue.



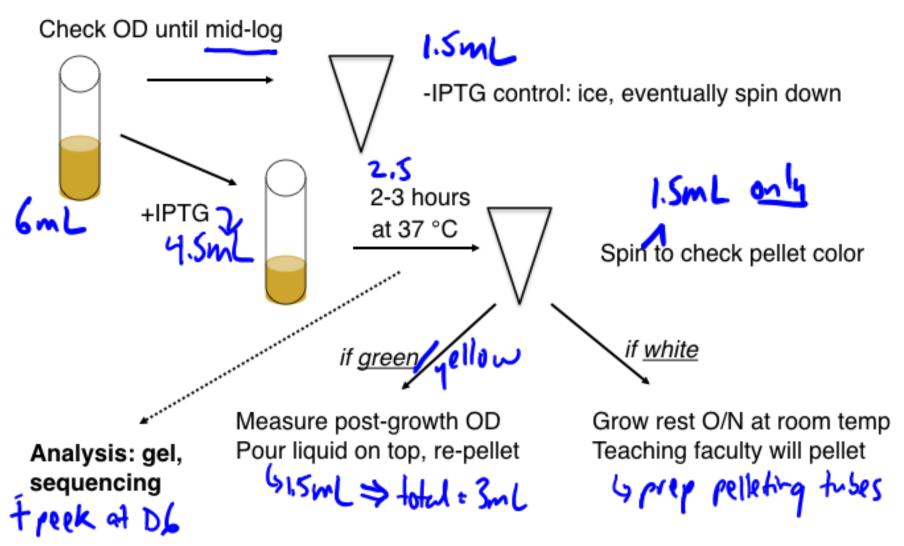
BL21(DE3) bacterial strain

DE3: bacteriophage (virus) used to integrate

pLysS: protein that produces __________, which binds to Tarnap, reducing bosal/'leaky" expression.

Retained by chlyam phenics _______ selection.

Today in Lab (M2D5): Workflow



Today in Lab (M2D5): Samples

- Start with four BL21 cultures:
 - -WT
 - Reference mutant
 - X#Z candidates 1 and 2
- After gel and sequencing analysis, pick just one X#Z to continue working with
 End of day, "hand in" 6 pellets OR 3 pellets, 3
- End of day, "hand in" 6 pellets OR 3 pellets, 3 cultures, and 3 eppendorfs to teaching faculty