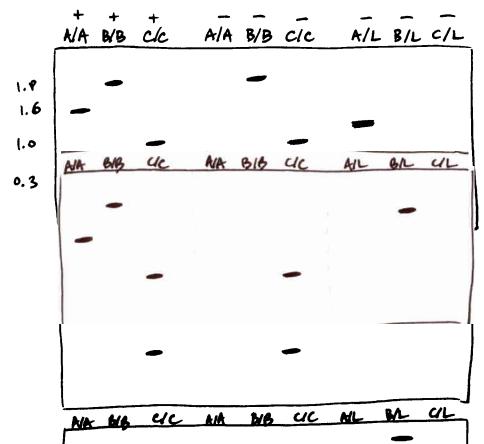
KDM Day 5 Recitation Handout

Examples of gels from PCR analysis of ara mutants

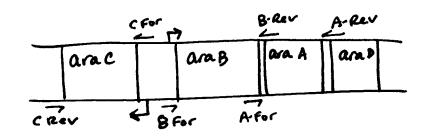


insertion in arak

insertion in ara B,
in 31 end, such that
ara A Forward primer
can't bind, or binds
too far away for
exponential amplification
of ara A
insertion in ara A.

insertion in ara A,
in 5' end such that
ara B primer + Lac Z
primer close enough
for exponential
amplification.

Band in AIA(-) is fainter + due to contamination from WT DNA



Subcloning Project (goal: make pET GFP) CGFP = CDNA (not genomic)

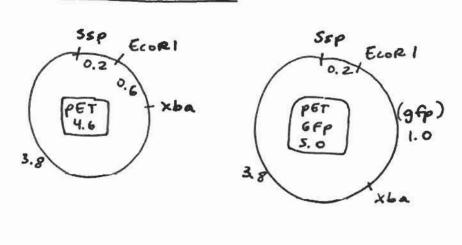
Diagnostic RE digests

- to find out which plasmids that you miniprepped have the gfp insert

Which enzymes did you use?

- 1) Ecorl + xba
- 2) Ssp + Xba

Possible Plasmids



se Evel (gfp)
0.2
" Xba
36FP 1.0 -(3PP)
7.0
3.8 TECORI
(9fp)
Xba

Restriction Enzyme	PET 4.6	PET GFP S.O	7.0
Ecorel+xba	0.6 4.0	4.0	1.0 (brighter) 4.0
Ssp + xba	0.8	1. 2	1.2 2.0 3.8

- keep in mind:
- Partial digests could happen
- Bright band stuck in wells could be chromoromal DNA from miniprep
- If digests don't work, running uncut will still tell you if you have sfp (PET-GFP large, runs slower, even supercoiled)