WARNING NOTICE: The experiments described in these materials are potentially hazardous and require a high level of safety training, special facilities and equipment, and supervision by appropriate individuals. You bear the sole responsibility, liability, and risk for the implementation of such safety procedures and measures. MIT shall have no responsibility, liability, or risk for the content or implementation of any of the material presented. Legal Notices

PARTIAL DIGESTS OF PLASMID DNA

(Restriction digests that affect only a subset of the target restriction sites; for difficult clonings)

- Have a timer or watch handy
- Pour an agarose gel to separate your digestion products
- Label four 0.6ml microcentrifuge tubes as follows: 0, 1, 5 and 20
- Into each tube, pipette 3µl STOP mix
- Prepare a restriction enzyme digest as follows

- Remove 10µl from the mixture and place it into the tube labeled "0"
- Add \sim 0.5µl restriction enzyme to the digestion mixture from step $\,$; mix; note the time
- After 60s, remove 10µl from the reaction mix and transfer it to the tube labeled "1"; mix well
- After 4 more minutes, remove 10µl from the reaction mixture and transfer it to the tube labeled "5"; mix well
- After 15 more minutes, remove $10\mu l$ from the reaction mixture and transfer it to the tube labeled "20"; mix well
- Load samples onto agarose gel

STOP mix	
100μl 0.5M EDTA, pH 8	
200μl 6x loading dye	