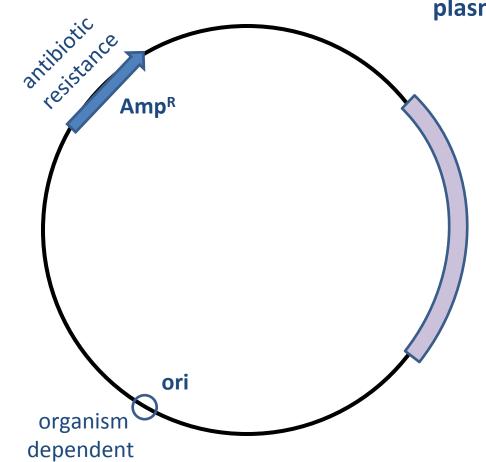
- Announcements
- Quiz
- Pre-lab Lecture
  - Closer Look at Plasmids
  - Site-Directed Mutagenesis
  - Restriction Enzymes Recap
  - Today in Lab: M2D2

## **Plasmid Overview**

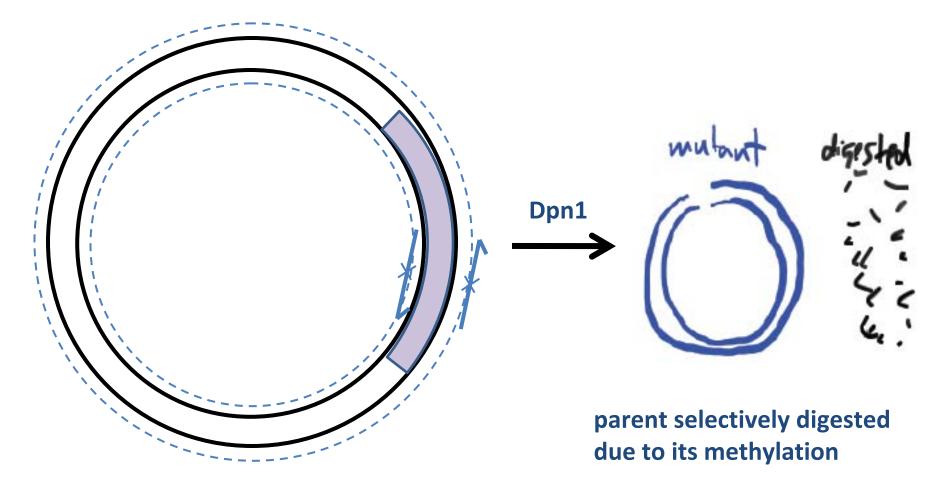


plasmids are circular, ds, extrachromosomal

why? vector to introduce a foreign gene (in an organism)

Ampicillin resistance → select bacteria with Amp that have plasmid

## **SDM Process**



## **Restriction Enzyme Recap**

- Allow selective cutting of DNA
  Some are more common than others

  g., DphI
  Often, but not always palindromic
  Gether

  Often are less selective
  XcmI
  CCANg T66
  N=A,T,C,G
  - ApriMI REGEWCCY YEC
- R=A/G W=A/T Y=C/T

## Today in Lab

- Prepare primer stock and dilution.
- SDM rxn: careful not to contaminate shared stocks.
- Paper reading period and discussion.
- For next time:
  - Short answer questions

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20.109 Laboratory Fundamentals in Biological Engineering Spring 2010

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