

Name: _____

Date: _____

Plasmid Mapping Handout

History of Plasmids

- In the late 1940s, scientists discovered _____ were in _____
- In 1952, Joshua Lederberg coined the term _____ to describe any extrachromosomal hereditary element
- He later won the Nobel Prize for Physiology or Medicine



What are Plasmids

- Plasmids are small DNA molecules, circular in shape, that are distinct from the bacterial chromosome and able to self replicate
- Cloning Vector: _____
- Recombinant DNA: _____

Label the following diagram



Different Types of Plasmids

- Fertility (F) Plasmids are plasmids that _____ through transfer genes
 - _____ allows genes to transfer _____
- Resistance (R) Plasmids are plasmids that _____ in a bacterial cell's _____ against _____ factors through specific genes it contains
 - Genes on the plasmid allow for _____ and _____ resistance

Mapping Plasmids Student Manual

K Morrison



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Table of Contents Mapping Plasmids Student Manual

1. Understanding the eBook Mapping Plasmids Student Manual
 - The Rise of Digital Reading Mapping Plasmids Student Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mapping Plasmids Student Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mapping Plasmids Student Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mapping Plasmids Student Manual
 - Personalized Recommendations
 - Mapping Plasmids Student Manual User Reviews and Ratings
 - Mapping Plasmids Student Manual and Bestseller Lists
5. Accessing Mapping Plasmids Student Manual Free and Paid eBooks
 - Mapping Plasmids Student Manual Public Domain eBooks
 - Mapping Plasmids Student Manual eBook Subscription Services

- Mapping Plasmids Student Manual Budget-Friendly Options
- 6. Navigating Mapping Plasmids Student Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mapping Plasmids Student Manual Compatibility with Devices
 - Mapping Plasmids Student Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mapping Plasmids Student Manual
 - Highlighting and Note-Taking Mapping Plasmids Student Manual
 - Interactive Elements Mapping Plasmids Student Manual
- 8. Staying Engaged with Mapping Plasmids Student Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mapping Plasmids Student Manual
- 9. Balancing eBooks and Physical Books Mapping Plasmids Student Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mapping Plasmids Student Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mapping Plasmids Student Manual
 - Setting Reading Goals Mapping Plasmids Student Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mapping Plasmids Student Manual
 - Fact-Checking eBook Content of Mapping Plasmids Student Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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