

# DNA REPLICATION

## Big Picture

DNA replication occurs during the S phase (synthesis phase) in the cell cycle for each strand of the double helix parent DNA. As cell divide and replicate, more DNA must be made. Because each complementary strand run in different directions, the process of DNA replication works differently for each strand.

## Key Terms

**DNA Replication:** The process in which a cell's entire DNA is copied.

**DNA Helicase:** The enzyme that breaks the hydrogen bonds holding the two DNA strands together during DNA replication.

**DNA Polymerase:** The enzyme that builds a new DNA strand during DNA replication.

**Leading Strand:** The DNA strand that DNA polymerase constructs in the  $5' \rightarrow 3'$  direction.

**Lagging Strand:** The DNA strand at the opposite side of the replication fork from the leading strand.

**Primase:** An enzyme that builds a short RNA primer on the lagging strand during DNA replication.

**Okazaki Fragments:** Short fragments of DNA that comprise the lagging strand.



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## The Leading Strand

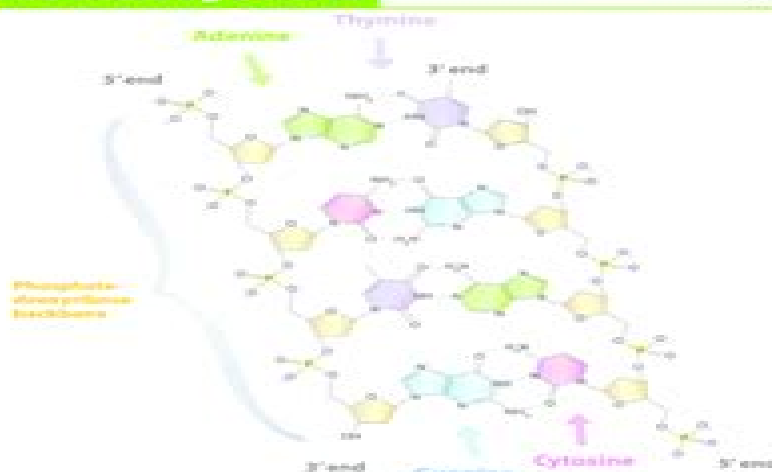


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## The Lagging Strand

For the other strand of the original DNA template, called the **lagging strand**, DNA polymerase cannot work continuously in the  $3' \rightarrow 5'$  direction. So before DNA polymerase creates the complementary strand, **primase** builds a short RNA primer. DNA polymerase then works on this small region to create DNA in the  $5' \rightarrow 3'$  direction. As RNA degrades, the new DNA strand takes its place.

The process then repeats until the end of the lagging strand is reached. These synthesized fragments are called **Okazaki fragments**.

In **DNA replication**, the parent DNA strand must be unwound by **DNA helicase**, which breaks the hydrogen bonds holding the two separate strands together. Proteins holding the DNA strand keep the strand from winding back together, and an enzyme called **topoisomerase** relieves the tension that causes the DNA to twist into a helix structure.

**DNA polymerase** creates the complementary DNA strand to the exposed base pairs of the parent DNA.

**Remember that adenine bonds only with thymine, and cytosine only with guanine.**

Replication continues until a new DNA has been made, consisting of the new complementary strand and the old strand.

Each DNA stand has a "direction." The  $5'$  (five prime) end has a terminal phosphate group, and the  $3'$  (three prime) end has a  $-OH$  group.

DNA polymerase only creates the new DNA strand in the  $5' \rightarrow 3'$  direction, so it works differently depending on which strand it is on. On the **leading strand**, which runs from  $5' \rightarrow 3'$ , DNA polymerase will work continuously as the replication fork grows.

# Study Guide Replication Of Dna Key

**Jane B. Taylor**



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## **Table of Contents Study Guide Replication Of Dna Key**

1. Understanding the eBook Study Guide Replication Of Dna Key
  - The Rise of Digital Reading Study Guide Replication Of Dna Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Replication Of Dna Key
  - 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 Study Guide Replication Of Dna Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Replication Of Dna Key



- Personalized Recommendations
- Study Guide Replication Of Dna Key User Reviews and Ratings
- Study Guide Replication Of Dna Key and Bestseller Lists
- 5. Accessing Study Guide Replication Of Dna Key Free and Paid eBooks
  - Study Guide Replication Of Dna Key Public Domain eBooks
  - Study Guide Replication Of Dna Key eBook Subscription Services
  - Study Guide Replication Of Dna Key Budget-Friendly Options
- 6. Navigating Study Guide Replication Of Dna Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Study Guide Replication Of Dna Key Compatibility with Devices
  - Study Guide Replication Of Dna Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide Replication Of Dna Key
  - Highlighting and Note-Taking Study Guide Replication Of Dna Key
  - Interactive Elements Study Guide Replication Of Dna Key
- 8. Staying Engaged with Study Guide Replication Of Dna Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide Replication Of Dna Key
- 9. Balancing eBooks and Physical Books Study Guide Replication Of Dna Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide Replication Of Dna Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Replication Of Dna Key
  - Setting Reading Goals Study Guide Replication Of Dna Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Replication Of Dna Key

- Fact-Checking eBook Content of Study Guide Replication Of Dna Key
- 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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