

Recombinant DNA Technology Flow

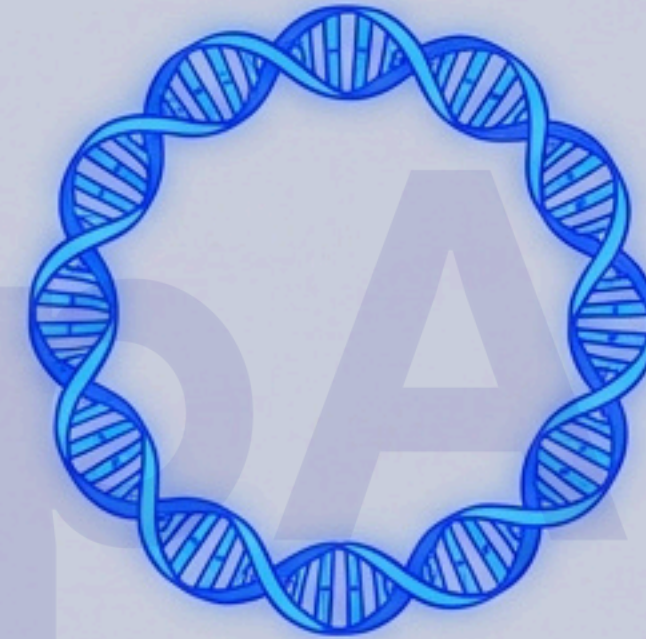
The fundamental steps of genetic engineering:
From molecular scissors to host transformation.

Foreign DNA



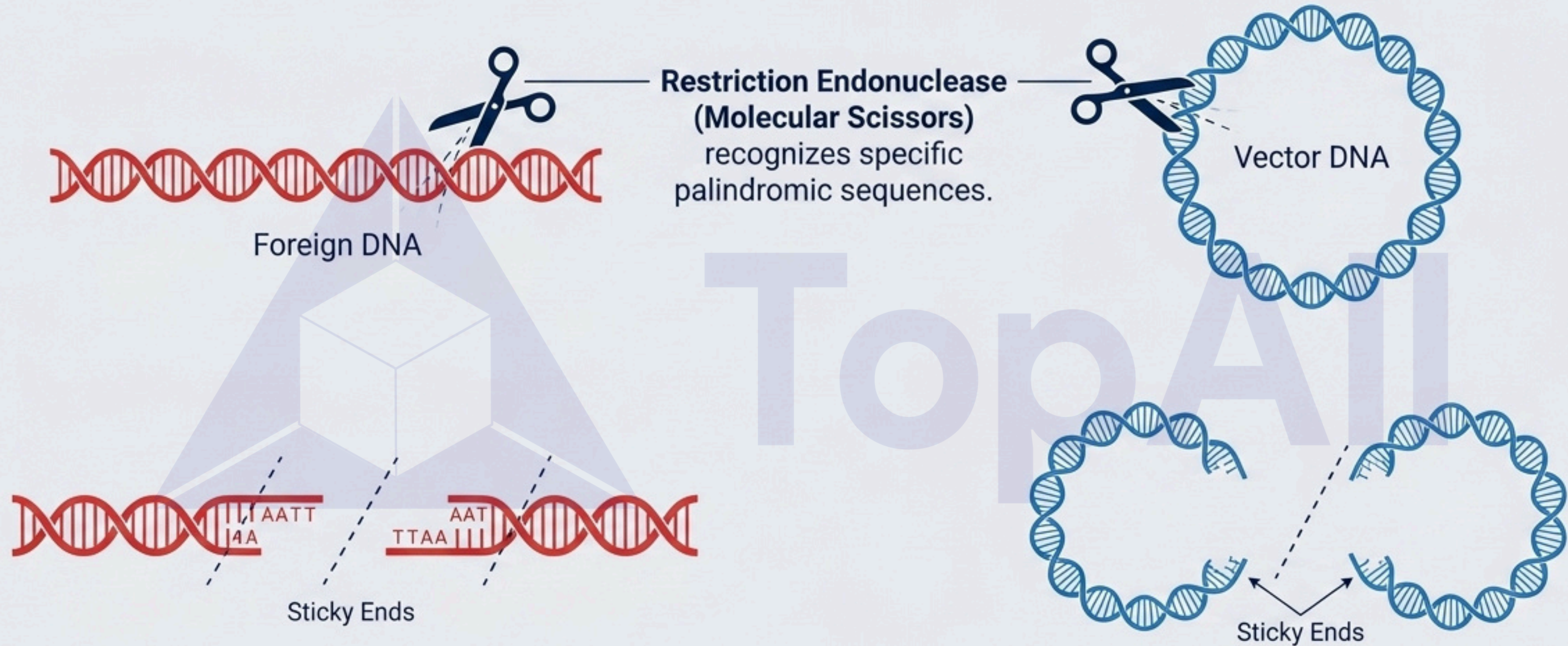
Source DNA containing the desired gene of interest to be isolated and multiplied.

Vector DNA



Plasmid Vector: An autonomously replicating circular extra-chromosomal DNA used as a cloning vehicle.

Same Restriction Enzyme Cuts Both



Crucial Step: Cutting both DNAs with the same restriction enzyme ensures they share compatible, complementary "sticky ends".



**You've Learned the Theory.
Let's Test Them Now.**

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



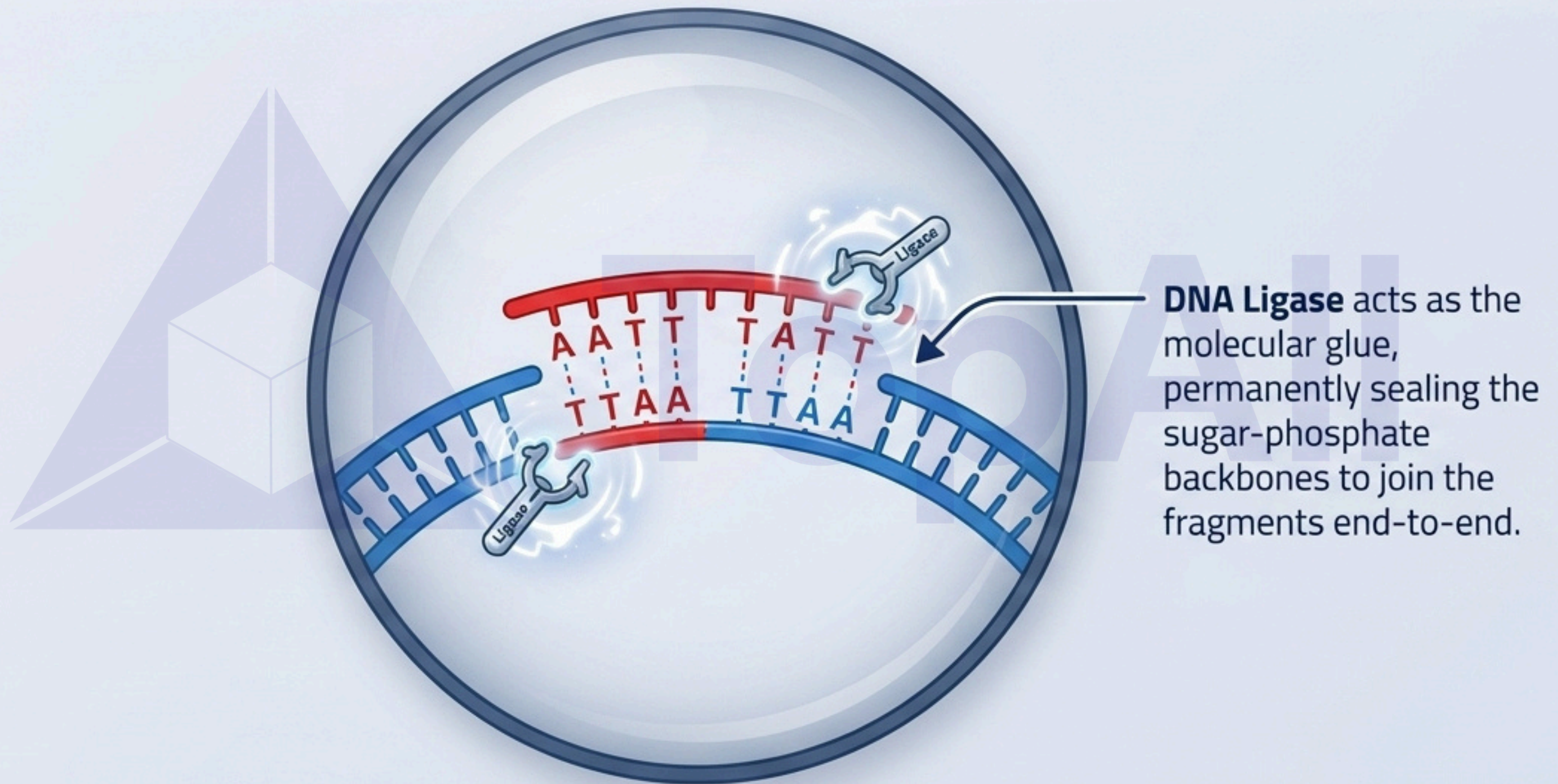
At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter

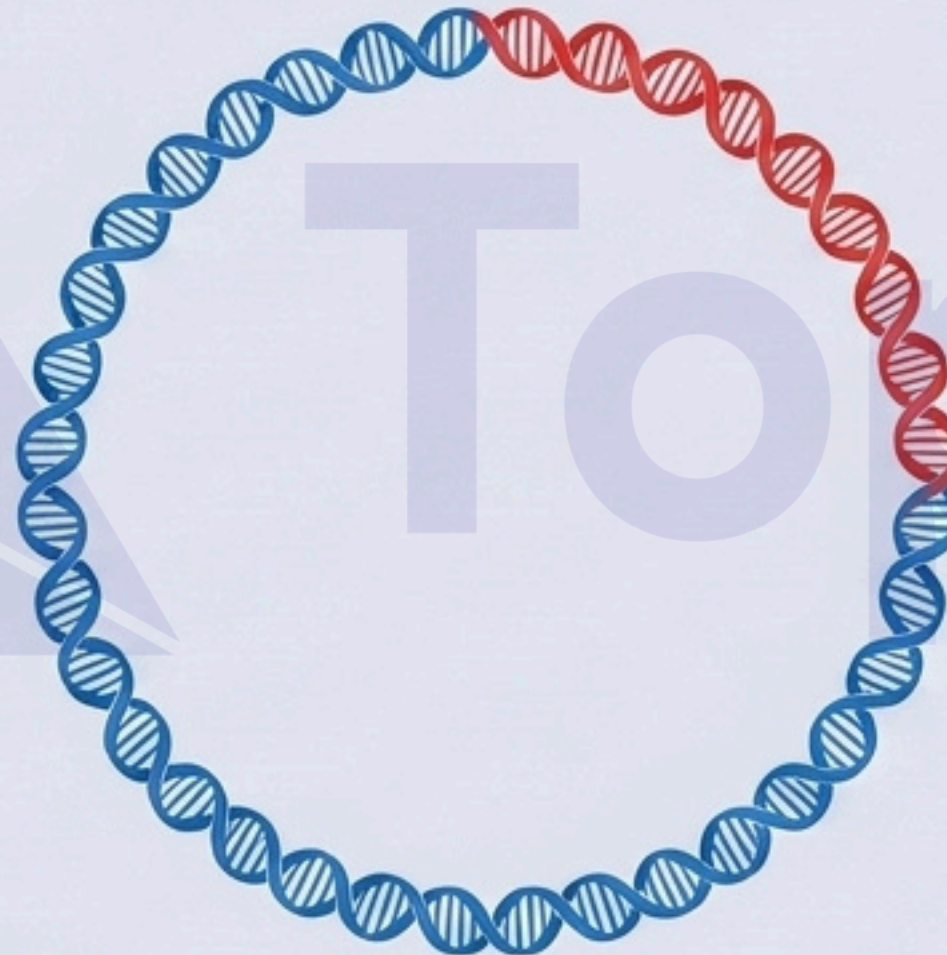


Ligase Joins Foreign DNA to Plasmid



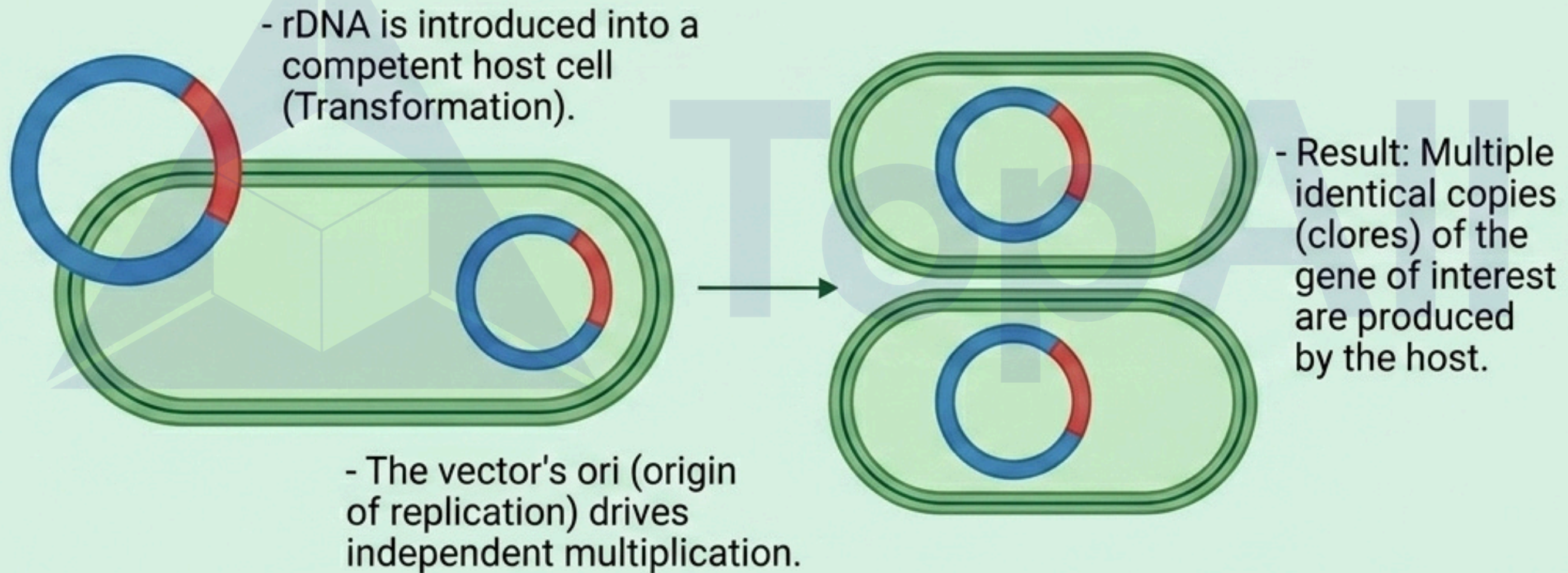
Recombinant DNA Molecule Forms

Recombinant DNA (rDNA) / Chimeric DNA



A new, autonomously replicating circular extra-chromosomal DNA created entirely in vitro.

NEET Key Takeaway: Transformation into E. coli





You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

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Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis