

Cornell Guided Notes

Genetics of Disease (Medical Interventions) | 2026-11-30

Name

Period

Date

Lesson

Lesson focus

Cloning workflow quiz

Key words and questions

Prepared details and student notes

Essential question
What is today's target?

Demonstrate mastery of the cloning and expression workflow on the weekly quiz. Big idea: Mastery of the cloning workflow means being able to sequence, explain, and troubleshoot each step from plasmid to protein.

My notes, examples, and questions

Key words
What vocabulary unlocks the lesson?

- plasmid
- recombinant DNA
- ligase
- transformation
- expression

My notes, examples, and questions

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Cornell Notes - Continued

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Must-know ideas
What should I understand by the end?

- The canonical workflow is: cut, insert, ligate, transform, select, express, purify.
- Each step has a required tool and a failure mode worth knowing.
- Vocabulary precision on ordered-step questions separates partial from full credit.

My notes, examples, and questions

Process notes
What happens during class?

- 0-15: Silent review: cloning-tools diagram, workflow data, expression notes
- 15-20: Open quiz in PLTW course shell; read all items before answering
- 20-55: Complete quiz items; use required vocabulary for every response
- 55-65: Check ordered-step questions against workflow sequence
- 65-72: Final review pass before submit
- 72-80: Submit quiz; note any items to revisit for WebXam prep

My notes, examples, and questions

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Steps and evidence What do I do and turn in?

- Review your cloning-tools diagram, workflow data, and expression notes.
- Open the cloning workflow quiz in the PLTW course shell.
- Answer each item using the terms plasmid, ligase, transformation, and expression.
- Check that any ordered-step questions follow the correct workflow sequence.
- Submit your completed cloning workflow quiz.

Evidence: WebXam practice - Completed cloning workflow quiz using plasmid, ligase, transformation, and expression vocabulary with correctly ordered workflow steps.

My notes, examples, and questions

Checks for understanding How do I know I got it?

- You'll be able to sequence the cloning workflow correctly.
- You'll be able to apply cloning vocabulary to quiz scenarios.

My notes, examples, and questions

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Cornell Notes - Continued

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Lab or safety notes
What must I handle
carefully?

Supplies:

- Plasmid and gene-insert models or DNA simulation kit
- Restriction enzyme and ligase reagents or model cards
- Micropipette and tips
- Host cell transformation simulation materials
- Selection plate reference handout
- Safety goggles and nitrile gloves

My notes, examples, and questions

Summary

Today's lesson focused on Cloning workflow quiz. The main target was: Demonstrate mastery of the cloning and expression workflow on the weekly quiz. The evidence of learning is WebXam practice: Completed cloning workflow quiz using plasmid, ligase, transformation, and expression vocabulary with correctly ordered workflow steps.. In my own words, the most important idea from today is:

My summary

My final question or connection