Ten years ago, our company launched with the miniPCR®: DNA technology that scientists of all stripes can bring wherever their curiosity leads them. Since then, we’ve traveled with you to forests, classrooms, kitchen tables, ocean depths, and even outer space. We’ve given you new tools to push your science further, and you’ve surprised us by applying them in new and creative ways.

Thank you for joining the DNA revolution. We look forward to shaping the next decade together.
Contents

- **FEATURED NEW PRODUCTS**  P. 02
- **HARDWARE**  P. 04
- **PACKS AND BUNDLES**  P. 16
- **REAGENTS AND CONSUMABLES**  P. 22
- **LEARNING LABS™**  P. 26
- **TRAINING AND TEACHING RESOURCES**  P. 47

Prices are in US dollars, are subject to change without notice, and do not include sales tax or shipping charges.

All trademarks are property of their respective owners.
Featured Product: miniPCR® Thermal Cyclers

**Sleek design**
A modern take on the classic miniPCR® design. Open and transparent, not a black box.

**Dazzling performance**
The latest technology for peak results and unmatched durability.

**Friendly as ever**
Expanded software compatibility helps everyone enjoy the full miniPCR® experience.
New miniPCR® thermal cyclers

Meet an updated classic: our new and improved miniPCR® machines. The transparent design that you love, with a modern look and expanded features:

- Universal compatibility with Windows, Mac, iOS, Chromebook, and Android devices
- Wireless connectivity via Bluetooth® on both models
- Extreme durability with drop-resistant construction

You’ll be delighted – whether you’re a longtime fan or new to the DNA revolution!

CONNECTED
Bluetooth® enabled

DURABLE
3-year warranty

PORTABLE
Weighs under a pound and fits in the palm of your hand

RELIABLE
Published, peer-reviewed results

AFFORDABLE
One for every budget

miniPCR bio™ | 2023/2024 catalog
Good things in small packages

**mini8X thermal cycler**
QP-1000-08  
QP-1000-48 - set of 4

Our updated take on the classic miniPCR®. A personalized 8-well PCR experience for maximum engagement, now adding Bluetooth® and iOS support. Built to last even longer, from classroom to jungle.

---

**mini16X thermal cycler**
QP-1016-16  
QP-1016-46 - set of 4

A nod to the past with an eye to the future. 16-well capacity, plus the latest technology and design for peak performance and durability. The ultimate miniPCR® thermal cycler.

---

**FULLY FEATURED THERMAL CYCLERS**

<table>
<thead>
<tr>
<th></th>
<th>mini8X</th>
<th>mini16X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of samples</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Compatible with 0.2 mL 8-tube strips</td>
<td><img src="https://via.placeholder.com/15" alt="" /></td>
<td><img src="https://via.placeholder.com/15" alt="" /></td>
</tr>
<tr>
<td>IPhone and iPad compatible</td>
<td><img src="https://via.placeholder.com/15" alt="" /></td>
<td><img src="https://via.placeholder.com/15" alt="" /></td>
</tr>
</tbody>
</table>

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
miniPCR® apps

YOUR PCR ON YOUR DEVICE

With the miniPCR® app, programming is simple and intuitive.

> Use your own device
> Program in seconds
> Monitor reactions in real time
> Connect to multiple machines simultaneously
> Store unlimited programs

Empower your students

For new users, unique features make PCR accessible with temperature graphed in real time, animations of what is occurring at the molecular level, and a graph showing the estimated number of DNA copies.

Free downloads
Three options to meet all your gel electrophoresis needs

Bandit™ STEM electrophoresis kit

The most affordable way to bring gel electrophoresis anywhere.

blueGel™ electrophoresis and visualization system

The complete go-to classroom electrophoresis system.

GELATO™ electrophoresis and visualization system

A professional grade electrophoresis system for the molecular biology lab.

Access free gel electrophoresis tutorials
The **Bandit™ STEM electrophoresis kit** allows students to:

- Assemble a gel electrophoresis system
- Learn fundamental biotech skills
- Integrate STEM practices

Run your own samples or use our carefully designed dye-based labs (page 30) to teach essential biotechnology with one of our most innovative and budget-conscious tools yet.

**QP-1400-01**  
**QP-1400-04** - Set of 4  
**QP-1400-08** - Set of 8  
**4AA30** - USB-C power supply

- Safe and convenient USB power supply—no batteries needed!  
- Durable and reusable  
- Build it to understand it!

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
blueGel™ electrophoresis & visualization system

blueGel™ is compact, durable, and easy to use. By integrating gel electrophoresis and blue light transillumination into an all-in-one device, you can see results instantly while still running your gel. There is no need for a separate imaging system, time-consuming staining and destaining, or harmful ethidium bromide and UV light.
blueGel™ electrophoresis with built-in transilluminator

QP-1500-01
QP-1500-41 - set of 4
QP-1500-28 - set of 8

- Fast results with real-time visualization
- Error-proof casting and loading
- Integrated power supply
- Safe DNA staining (e.g. SeeGreen™ or GelGreen®)
- Fold-a-View™ photo documentation hood

blueGel™ set of 4 with carrying case

LB-1500-04

- 4 blueGel™ electrophoresis systems
- Carrying case with protective semi-rigid shell
- Custom foam inserts, handle, and shoulder strap

blueGel™ electrophoresis classroom startup pack

QP-1500-44

- 4 blueGel™ electrophoresis systems
- 8 micropipettes (2-20 μl), H-style

Visit www.minipcr.com for up-to-date pricing and promotions.
GELATO™

Professional gel electrophoresis and visualization system compatible with safe green dyes

RUN. VIEW. SNAP. CUT. ALL IN ONE.

A full-sized, integrated system for ultra-fast runs and eye-popping bands. Publication-quality results in a compact, space-saving footprint.

QP-1600-01
QP-1600-04 - set of 4

• Integrated transilluminator
• Direct gel documentation
• Built-in power supply up to 135 V
• Safe band cutting
• Seamless casting platform

blueGel™
GELATO™

<table>
<thead>
<tr>
<th>Feature</th>
<th>blueGel™</th>
<th>GELATO™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gel size</td>
<td>6 x 6 cm</td>
<td>12 cm x 6 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(or two 6 cm x 6 cm)</td>
</tr>
<tr>
<td>Voltage</td>
<td>fixed</td>
<td>variable 50-135 V</td>
</tr>
<tr>
<td>Number of samples</td>
<td>up to 26</td>
<td>up to 50</td>
</tr>
<tr>
<td>Built-in transillumination</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Compatible with safe green dyes</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Fold-a-View™ imaging hood</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Multichannel compatible</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Cutting tray and goggles</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Timer</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
blueBox™ blue light transilluminators

Visualize DNA safely and efficiently with high sensitivity. Say goodbye to ethidium bromide and harmful UV light! Compatible with safe dyes such as GelGreen®, SeeGreen™, SYBR® Green, SYBR® Safe, GreenView™, GreenView™ Plus, EvaGreen®, GR Safe, Gel Star™, SYPRO® Ruby, and others.

<table>
<thead>
<tr>
<th>blueBox™ S</th>
<th>blueBox™ Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viewing area</td>
<td>9 cm x 10 cm</td>
</tr>
<tr>
<td>Compatible with SYBR® family green DNA stains</td>
<td>●</td>
</tr>
<tr>
<td>Includes Fold-a-View™ imaging hood</td>
<td>●</td>
</tr>
<tr>
<td>Adjustable hinged lid for easy band cutting and gel excision</td>
<td>●</td>
</tr>
</tbody>
</table>

blueBox™ S transilluminator with imaging hood
QP-1700-01

blueBox™ Pro transilluminator with imaging hood
QP-1700-03

Fold-a-View™ photo documentation hood
Included with blueBox™ transilluminators

Foldable darkroom allows you to take high quality gel images with your cell phone.
P51™ Molecular Glow Labs™

A whole new approach to biology inquiry using fluorescence

Discover a completely new approach to studying biological structures, functions, and processes. Fluorescent outputs give students fast visual results in labs that tackle key areas across the biology curriculum. Introduce authentic hands-on investigations where previously worksheets and paper models were the norm. Make biology glow™!

Investigate:
- DNA structure
- Enzyme activity
- Transcription and translation
- Quantitative PCR
- And more...

P51™ is our tribute to Rosalind Franklin’s contribution to the discovery of DNA structure.
**P51™ Molecular Fluorescence Viewer** QP-1900-01 / QP-1900-08 - set of 8

This small, handheld blue-light illumination system opens the world of fluorescence to your students.

**GlowRack™ tube adapter** QP-1500-18

This tube holder with integrated blue-light filter allows you to visualize fluorescent samples from BioBits® and P51™ Molecular Glow Labs™ using your blueGel™ electrophoresis system’s blue light illuminator.

<table>
<thead>
<tr>
<th>Feature</th>
<th>P51™ Molecular Fluorescence Viewer</th>
<th>GlowRack™ tube adapter for blueGel™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design allows for pipetting while tubes are in the viewer</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Capacity</td>
<td>8 tubes</td>
<td>8 tubes</td>
</tr>
<tr>
<td>Power supply</td>
<td>USB-C or 9 V battery</td>
<td>included with blueGel™</td>
</tr>
<tr>
<td>Orange filter for BioBits® and P51™ Molecular Glow Labs™</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Yellow filter for enhanced viewing of yellow and green fluorescence</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Handheld, battery operated</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

*NOTE: P51™ and BioBits® labs can also be performed on a blueGel™ electrophoresis system with the standard orange cover.*

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
**Micropipettes · H-style**
Reliable everyday performance.
- Accurate and durable
- Fully adjustable
- Ergonomic design
- Compatible with standard tips
- Calibration tool included

**Micropipettes · A-style**
Designed for the pros.
- Advanced ergonomic design
- 4-digit volume adjustment
- Very low operating force
- Compatible with standard tips
- Calibration tool included

**Fixed volume minipetettes**
Affordable accuracy for learners.
- Look and feel of variable volume micropipettes
- Eliminates volume adjustment errors
- Built-in tip ejector
- Use standard tips

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume range (µl)</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10</td>
<td>1 - 10</td>
<td>QP-1001-05</td>
</tr>
<tr>
<td>H20</td>
<td>2 - 20</td>
<td>QP-1001-01</td>
</tr>
<tr>
<td>H200</td>
<td>20 - 200</td>
<td>QP-1001-03</td>
</tr>
<tr>
<td>H1000</td>
<td>100 - 1000</td>
<td>QP-1001-02</td>
</tr>
<tr>
<td>Set of 3</td>
<td>H20, H200, H1000</td>
<td>QP-1001-04</td>
</tr>
<tr>
<td>Rack, H-style</td>
<td>holds 9</td>
<td>QP-1001-06</td>
</tr>
<tr>
<td>Set of 4 with rack</td>
<td>H10, H20, H200, H1000</td>
<td>QP-1001-07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume range (µl)</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10</td>
<td>0.5 - 10</td>
<td>QP-1002-05</td>
</tr>
<tr>
<td>A20</td>
<td>2 - 20</td>
<td>QP-1002-01</td>
</tr>
<tr>
<td>A200</td>
<td>20 - 200</td>
<td>QP-1002-03</td>
</tr>
<tr>
<td>A1000</td>
<td>100 - 1000</td>
<td>QP-1002-02</td>
</tr>
<tr>
<td>Set of 4</td>
<td>A10, A20, A200, A1000</td>
<td>QP-1002-04</td>
</tr>
<tr>
<td>Rack, A-style</td>
<td>holds 9</td>
<td>QP-1002-06</td>
</tr>
<tr>
<td>Set of 4 with rack</td>
<td>A10, A20, A200, A1000</td>
<td>QP-1002-07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume range (µl)</th>
<th>Catalog No.</th>
</tr>
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<tbody>
<tr>
<td>4 µl minipette</td>
<td>Fixed</td>
<td>QP-1003-01</td>
</tr>
<tr>
<td>10 µl minipette</td>
<td>Fixed</td>
<td>QP-1003-02</td>
</tr>
<tr>
<td>20 µl minipette</td>
<td>Fixed</td>
<td>QP-1003-03</td>
</tr>
<tr>
<td>4 µl, set of 10</td>
<td>Fixed</td>
<td>QP-1003-10</td>
</tr>
<tr>
<td>10 µl, set of 10</td>
<td>Fixed</td>
<td>QP-1003-20</td>
</tr>
<tr>
<td>20 µl, set of 10</td>
<td>Fixed</td>
<td>QP-1003-30</td>
</tr>
</tbody>
</table>

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
**Gyro™ microcentrifuge**
This basic microcentrifuge will get you spinning fast.

QP-1800-01

- Single speed: 10,000 rpm
- Robust and user-friendly
- Holds 0.2, 0.5, 1.5, 2.0 ml tubes

**Gyro™ Plus variable speed microcentrifuge**
Take our yellow submarine for a spin!

QP-1800-02

- Variable speed: up to 12,000 rpm
- User-friendly LED interface
- Holds 0.2, 0.5, 1.5, 2.0 ml tubes

<table>
<thead>
<tr>
<th>Gyro™</th>
<th>Gyro™ Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed (RPM)</td>
<td>10,000</td>
</tr>
<tr>
<td>Maximum RCF</td>
<td>4,800</td>
</tr>
<tr>
<td>6 x 1.5 ml microtube rotor</td>
<td><img src="bullet.png" alt="bullet" /></td>
</tr>
<tr>
<td>16 x 0.2 ml PCR tube rotor</td>
<td><img src="bullet.png" alt="bullet" /></td>
</tr>
<tr>
<td>6 adapters for 0.5 ml tubes</td>
<td><img src="bullet.png" alt="bullet" /></td>
</tr>
</tbody>
</table>

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
miniPCR® Lab in a Box™ Kit #2

PCR and electrophoresis, ready to go.

LB-2500-08 - with mini8X thermal cycler
LB-2516-16 - with mini16X thermal cycler

• miniPCR® mini8X or mini16X thermal cycler
• blueGel™ electrophoresis system with integrated transilluminator
• Set of 3 micropipettes, 1-10 μl, 2-20 μl, 20-200 μl
• 4 racks of 96 micropipette tips: 2 x 0.5-10 μl, 2 x 2-200 μl
• Fieldable carrying case with protective foam inserts (17” x 15” x 7”)

miniPCR® Lab in a Box™ Kit #4

A biotech classroom on wheels.

LB-5000-08 - with mini8X thermal cycler
LB-5016-16 - with mini16X thermal cycler

• 4 miniPCR® mini8X or mini16X thermal cyclers
• 4 blueGel™ electrophoresis systems with integrated transilluminators
• 8 micropipettes, 2-20 μl
• 1 micropipette, 20-200 μl
• 1 micropipette, 1-10 μl
• Rugged and fieldable carrying case with protective foam inserts (24” x 17” x 10”)

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
miniPCR® DNA Discovery System™

The essential biotech toolkit for your lab or classroom.

QP-2000-08 - with mini8X thermal cycler
QP-2016-16 - with mini16X thermal cycler
QP-2000-14 - 4-unit mini8X bundle
QP-2016-26 - 4-unit bundle with mini16X

• miniPCR® mini8X or mini16X thermal cycler
• blueGel™ electrophoresis system with integrated transilluminator
• 2-20 μl micropipette

miniPCR® DNA Discovery System™ Pro

Your professional DNA analysis toolkit.

QP-2020-16

• miniPCR® mini16X thermal cycler
• GELATO™ electrophoresis and visualization system

Visit www.minipcr.com for up-to-date pricing and promotions.
miniPCR® Lab Starter Pack
Get your lab up and running.
QP-2500-08 - with mini8X thermal cycler
QP-2516-16 - with mini16X thermal cycler
• miniPCR® mini8X or mini16X thermal cycler
• blueGel™ electrophoresis system with integrated transilluminator
• 3 micropipettes: 1-10 μl, 2-20 μl, 20-200 μl
• Consumables:
  - Agarose, electrophoresis grade, 20 g
  - TBE electrophoresis buffer powder, makes 3 L
  - SeeGreen™ DNA gel stain, 20,000X in water, 200 μl
  - Microtubes 1.5 ml, bag of 500
  - PCR tubes 0.2 ml, bag of 100
  - 200 μl micropipette tips, 2 racks of 96
  - 10 μl micropipette tips, 2 racks of 96

miniPCR® Lab Starter Pack Plus
Add a Gyro™ Plus.
QP-2500-09 - with mini8X thermal cycler
QP-2516-26 - with mini16X thermal cycler
• miniPCR® mini8X or mini16X thermal cycler
• blueGel™ electrophoresis system with integrated transilluminator
• 3 micropipettes: 1-10 μl, 2-20 μl, 20-200 μl
• Gyro™ Plus microcentrifuge
• Consumables:
  - Agarose, electrophoresis grade, 20 g
  - TBE electrophoresis buffer powder, makes 3 L
  - SeeGreen™ DNA gel stain, 20,000X in water, 200 μl
  - Microtubes 1.5 ml, bag of 500
  - PCR tubes 0.2 ml, bag of 100
  - 200 μl micropipette tips, 2 racks of 96
  - 10 μl micropipette tips, 2 racks of 96

Visit www.minipcr.com for up-to-date pricing and promotions.
miniPCR® Classroom Packs

Take the guesswork out of setting up your classroom. miniPCR® Classroom Packs make ordering a breeze.

<table>
<thead>
<tr>
<th>miniPCR® Starter Classroom Pack</th>
<th>miniPCR® Biotech Classroom Pack</th>
<th>miniPCR® Premium Classroom Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>QP-2500-16</td>
<td>QP-2500-28</td>
<td>QP-2500-38</td>
</tr>
<tr>
<td>miniPCR® thermal cyclers</td>
<td>2 mini16X</td>
<td>4 mini8X</td>
</tr>
<tr>
<td>blueGel™ electrophoresis systems</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Microcentrifuge</td>
<td>1 Gyro™</td>
<td>2 Gyro™</td>
</tr>
<tr>
<td>Student micropipettes</td>
<td>4 H2O</td>
<td>8 H2O</td>
</tr>
<tr>
<td>Teacher pipette set</td>
<td>1 H10</td>
<td>1 H10</td>
</tr>
<tr>
<td></td>
<td>1 H20</td>
<td>1 H20</td>
</tr>
<tr>
<td></td>
<td>1 H200</td>
<td>1 H200</td>
</tr>
<tr>
<td>Micropipette stand</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>200 μl tips</td>
<td>4 racks</td>
<td>8 racks</td>
</tr>
<tr>
<td>10 μl tips</td>
<td>2 racks</td>
<td>2 racks</td>
</tr>
<tr>
<td>1000 μl tips</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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Bandit™ Biotech Bundles

It’s a biotech bootcamp in one convenient bundle. With three size options, you can shop the bundle that’s right for your classroom.

Visit www.minipcr.com for up-to-date pricing and promotions.
Free expert advice

We are here to help! Schedule a 15-30 minute video conference with a miniPCR bio™ scientist and get personalized equipment or curriculum recommendations.

“The scientists and educators from miniPCR were able to help me get the most from my budget as well as provide advice and suggestions for several of the labs. The personal attention and ability to talk with a real person reflected how they value their service and their customers.”

- Debbie Brewer, Science Department Chair at Lumen Christi High School
## REAGENTS AND CONSUMABLES

### Tubes

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 ml microtubes</td>
<td>bag of 500</td>
<td>CM-1000-03</td>
</tr>
<tr>
<td>1.5 ml microtubes, sterile</td>
<td>bag of 50</td>
<td>6AA02</td>
</tr>
<tr>
<td>0.2 ml PCR tubes, thin walled</td>
<td>bag of 100</td>
<td>CM-1000-01</td>
</tr>
<tr>
<td>0.2 ml PCR tubes, thin walled</td>
<td>bag of 1000</td>
<td>2AA21</td>
</tr>
<tr>
<td>0.2 ml 8-strip PCR tubes with strip domed caps</td>
<td>bag of 12</td>
<td>6AA45</td>
</tr>
<tr>
<td>0.2 ml 8-strip PCR tubes with attached flat caps</td>
<td>bag of 8</td>
<td>6AA94</td>
</tr>
</tbody>
</table>

### Micropipette tips

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5-10 μl micropipette tips</td>
<td>2 racks of 96 tips</td>
<td>CM-1001-05</td>
</tr>
<tr>
<td>2-200 μl micropipette tips</td>
<td>2 racks of 96 tips</td>
<td>CM-1001-01</td>
</tr>
<tr>
<td>100-1000 μl micropipette tips</td>
<td>2 racks of 100 tips</td>
<td>CM-1001-03</td>
</tr>
<tr>
<td>2-200 μl micropipette tips</td>
<td>bag of 100</td>
<td>CM-1001-10</td>
</tr>
<tr>
<td>10 μl filtered sterile micropipette tips</td>
<td>rack of 96</td>
<td>4AA75</td>
</tr>
<tr>
<td>20 μl filtered sterile micropipette tips</td>
<td>rack of 96</td>
<td>4AA76</td>
</tr>
<tr>
<td>200 μl filtered sterile micropipette tips</td>
<td>rack of 96</td>
<td>4AA77</td>
</tr>
<tr>
<td>1000 μl filtered sterile micropipette tips</td>
<td>rack of 96</td>
<td>4AA78</td>
</tr>
</tbody>
</table>

### miniRacks

<table>
<thead>
<tr>
<th>Color</th>
<th>Quantity</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>1 PCR tube rack</td>
<td>CM-1003-01</td>
</tr>
<tr>
<td>Green</td>
<td>1 PCR tube rack</td>
<td>CM-1003-02</td>
</tr>
<tr>
<td>Blue</td>
<td>1 PCR tube rack</td>
<td>CM-1003-03</td>
</tr>
<tr>
<td>Pink</td>
<td>1 PCR tube rack</td>
<td>CM-1003-04</td>
</tr>
<tr>
<td>Assorted set of 8</td>
<td>8 PCR tube racks</td>
<td>CM-1003-05</td>
</tr>
</tbody>
</table>

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
**DNA extraction**

<table>
<thead>
<tr>
<th>Product</th>
<th>Volume</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrapure Nuclease-Free Water</td>
<td>1 ml</td>
<td>RG-1021-01</td>
</tr>
<tr>
<td>X-Tract™ DNA Extraction Buffer</td>
<td>1 ml</td>
<td>RG-1020-01</td>
</tr>
<tr>
<td>DPX™ DNA Extraction Buffer</td>
<td>1.2 ml</td>
<td>RG-1020-02</td>
</tr>
</tbody>
</table>

**PCR**

<table>
<thead>
<tr>
<th>Product</th>
<th>Volume</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ PCR Master Mix, 5X, Load-Ready™</td>
<td>240 μl</td>
<td>RG-1000-01</td>
</tr>
<tr>
<td>Hot Multiplex PCR Master Mix, 5X</td>
<td>1 ml</td>
<td>RG-1010-01</td>
</tr>
<tr>
<td>PCR Master Mix, 2X, Clear</td>
<td>1 ml</td>
<td>RG-1010-02</td>
</tr>
<tr>
<td>Ultrapure Nuclease-Free Water</td>
<td>1 ml</td>
<td>RG-1021-01</td>
</tr>
</tbody>
</table>

“miniPCR Learning Labs are so robust. I can always count on the kids getting fantastic results.”

-Jaki Burns, Biology and Genetics Teacher at Neuqua Valley High School

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
DNA ladders and gel loading dye

<table>
<thead>
<tr>
<th>DNA ladder</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 bp Ladder 500 µL, Load Ready™</td>
<td>RG-1002-02</td>
</tr>
<tr>
<td>100 bp Ladder 100 µL, Load Ready™</td>
<td>RG-1001-01</td>
</tr>
<tr>
<td>100 bp Ladder 500 µL, Load Ready™</td>
<td>RG-1001-02</td>
</tr>
<tr>
<td>1 kb Ladder 500 µL, Load Ready™</td>
<td>RG-1002-01</td>
</tr>
<tr>
<td>Fast DNA Ladder 1 150 µL, Load Ready™</td>
<td>RG-1003-01</td>
</tr>
<tr>
<td>Gel Loading Dye, Blue, 10X</td>
<td>1 ml</td>
</tr>
</tbody>
</table>

TBE electrophoresis buffer

New powder formulation. Just add water!
- Stable for 3 years at room temperature
- Recommended buffer for Bandit™ and blueGel™

TBE electrophoresis, powder

<table>
<thead>
<tr>
<th>Buffer</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBE buffer, makes 600 mL</td>
<td>5.1 g</td>
</tr>
<tr>
<td>TBE buffer, makes 3 L</td>
<td>25.5 g</td>
</tr>
</tbody>
</table>

Visit www.minipcr.com for up-to-date pricing and promotions.
# Gel electrophoresis reagents

## Agarose, electrophoresis grade

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agarose Powder</td>
<td>RG-1500-02</td>
</tr>
<tr>
<td>Agarose Tabs™</td>
<td>RG-1500-03</td>
</tr>
<tr>
<td>Agarose Tabs™</td>
<td>RG-1500-05</td>
</tr>
</tbody>
</table>

## All-in-One Agarose Tabs™

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SeeGreen™ All-in-One Agarose Tabs</td>
<td>RG-1500-22</td>
</tr>
<tr>
<td>SeeGreen™ All-in-One Agarose Tabs</td>
<td>RG-1500-21</td>
</tr>
<tr>
<td>SeeGreen™ All-in-One Agarose Tabs</td>
<td>RG-1500-20</td>
</tr>
<tr>
<td>GelGreen® Agarose Tabs™</td>
<td>RG-1500-12</td>
</tr>
<tr>
<td>GelGreen® Agarose Tabs™</td>
<td>RG-1500-11</td>
</tr>
</tbody>
</table>

## Nucleic acid stains

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GelGreen® Nucleic Acid Stain, 10,000X</td>
<td>RG-1550-01</td>
</tr>
<tr>
<td>SeeGreen™ Nucleic Acid Stain, 20,000X</td>
<td>RG-1550-10</td>
</tr>
</tbody>
</table>

## Electrophoresis reagent bundles

<table>
<thead>
<tr>
<th>Product</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrophoresis Reagents Kit: Starter</td>
<td>RG-1510-02</td>
</tr>
<tr>
<td>Electrophoresis Reagents Kit: Bulk</td>
<td>RG-1510-03</td>
</tr>
</tbody>
</table>

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
Learning Labs from miniPCR bio™

From gel electrophoresis and PCR to synthetic biology and CRISPR/Cas, your students will implement real biotechnology while exploring fundamental biology concepts.

Our affordable hands-on lab kits provide:

- Reagents for 8 lab groups or 32 students
- Free and comprehensive curriculum
- Classroom-friendly lab protocols
- Unmatched support

Micropipetting  Dye electrophoresis labs  DNA gel electrophoresis  PCR  Research projects  @home

DNA digestion  P51™ Glow Labs™  BioBits® cell-free system  Bacterial transformation  CRISPR/Cas
Featured new Learning Labs™

**True Blue™ Bacterial Transformation Lab**

KT-1802-01

A simple and robust transformation lab!  
Learn more on p. 44

Transform bacteria and observe a phenotypic change.  
Featuring a simple protocol that requires minimal equipment and teacher prep.

**Dye Electrophoresis Lab: Mendel’s Peas**

KT-1403-01

Confirm which gene determines pea shape!  
Learn more on p. 30

This gel electrophoresis lab connects traditional Mendelian genetics with our modern understanding of DNA and inheritance.

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
Micropipetting

**Micropipetting 101** KT-1510-10

Practice pipetting with reusable practice cards and gels. Kit includes 20 reusable pipetting practice cards, 10 reusable silicone practice gels, practice dye, tips, and tubes.

*Middle school, general high school, advanced high school, college*

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**Micropipetting @home: Microliter Madness** KT-1101-01

Set of 10 KT-1101-10

Make micropipetting fun! Kit contains reusable supplies for an individual to complete three engaging activities: micropipetting practice, gel loading practice, and pipette art. Compatible with 4 μl and 10 μl minipettes.

*Middle school, general high school, advanced high school, college*

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**Micropipette Art: Full STEAM Ahead!** KT-1510-21

A classroom’s worth of supplies to introduce and practice micropipetting in a fun and engaging way. Follow our art patterns or create your own microliter masterpiece! Kit includes red, yellow, and blue practice dyes (20 mL ea.), 16 micropipette art cards, and 100 tips. Compatible with 10 μl minipettes.

*Middle school, general high school, advanced high school, college*

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Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
Micropipetting

Micropipetting practice cards KT-1510-12 - set of 20
Practice micropipetting with these reusable waterproof cards. Card features instructions for using a micropipette on one side and a micropipetting exercise on the other side.

Silicone practice gels KT-1510-13 - set of 10
Practice gel loading with durable and reusable silicone gels.

Micropipette art cards KT-1510-20 - set of 8
Set of 8 reusable art cards for micropipetting art practice. Cards can be combined with free downloadable art patterns.

Micropipetting practice dyes KT-1510-02 - 5 ml each red, blue, and yellow dye
Colored dyes to practice micropipetting and gel loading.

Download our free micropipetting resources

Visit www.minipcr.com for up-to-date pricing and promotions.
Dye Electrophoresis Learning Labs™

**Dye Electrophoresis Lab: Molecular Rainbow**  KT-1400-01
Students use gel electrophoresis to separate molecular mixtures.
Middle school, general high school
Gel electrophoresis

**Dye Electrophoresis Lab: Microbe Hunters**  KT-1401-01
Identify whether microbes collected from surfaces on the International Space Station pose any threat to the astronaut crew.
Middle school, general high school
Gel electrophoresis

**Dye Electrophoresis Lab: Cat Genetics**  KT-1402-01
Explore the link between genotype and phenotype in a family of cats.
Middle school, general high school
Gel electrophoresis

**Dye Electrophoresis Lab: Mendel’s Peas**  KT-1403-01
Connect Mendel’s famous experiments with our modern understanding of DNA and inheritance
Middle school, general high school
Gel electrophoresis

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
DNA Gel Electrophoresis Learning Labs™

**DNA Fingerprinting Lab: Shark Attack!** KT-1500-03

Sharks have been menacing Australian beaches. Use DNA fingerprinting to understand the source of the attacks.

- General high school
- Gel electrophoresis

**Sickle Cell Genetics Lab: Diagnosing Baby Marie™** KT-1502-01

Students are presented with a fictional family's medical history and must work to make a genetic diagnosis for possible sickle cell disease.

- General high school, advanced high school, college
- Gel electrophoresis

**Viral Diagnostics Lab: Beating the Next Pandemic** KT-1503-01

A new virus is sweeping the globe. Students act as healthcare providers and test patients for infection with the seasonal influenza or an emergent virus.

- General high school, advanced high school, college
- Gel electrophoresis

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
Real data. Unknown outcomes.

The best way for students to learn science is to do science. That’s why we strive to bring you authentic scenarios, with data your students must analyze critically.

How do we bring authenticity to a gel electrophoresis lab? We partnered with top conservation geneticists from the Duke Lemur Center to present students with real data collected by scientists in Madagascar. Your students will perform some of the same analyses as the scientists to help track the fate of a species in the face of environmental change. Will they reach the same conclusions?

Conservation Genetics Lab: Discovering Lemur Diversity (page 33)
DNA Gel Electrophoresis Learning Labs™

Electrophoresis Forensics Lab: Wrongfully Convicted? KT-1504-01
Was J.M. wrongfully convicted? Analyze DNA evidence from a closed case to determine if justice has been served.
General high school, advanced high school
Gel electrophoresis

Conservation Genetics Lab: Discovering Lemur Diversity KT-1505-01
Analyze authentic field data to determine if a species of lemur thought to be extinct has been rediscovered.
General high school, advanced high school, college
Gel electrophoresis

Dog Genetics Lab: Oodles of Labradoodles™ KT-1506-01
Explore the link between genotype and phenotype in a litter of puppies. Mendelian genetics has never been cuter!
General high school, advanced high school
Gel electrophoresis

Visit www.minipcr.com for up-to-date pricing and promotions.
DNA Digestion Learning Labs™

Restriction Digest Analysis Lab: Making the Cut  KT-1507-01 - Coming soon

Use different restriction enzymes to digest a DNA plasmid. Then use gel electrophoresis to analyze your results and create a plasmid map.

General high school, advanced high school, college
Restriction digest, gel electrophoresis

Chopped! Using CRISPR/Cas to Cut DNA  KT-1801-01

Use CRISPR/Cas in a test tube with a direct gel electrophoresis readout. Without any major prep or cells to culture, experiment directly with the gene targeting mechanism of CRISPR/Cas at the molecular level!

General high school, advanced high school, college
CRISPR/Cas, gel electrophoresis

“miniPCR’s online resources and curricular supports are excellent. These labs help me integrate biotechnology throughout my curriculum.”

-Le Leslie Prudhomme, Mass Insight Program Director

Visit www.minipcr.com for up-to-date pricing and promotions.
PCR Learning Labs™

**Crime Lab: Missy Baker Missing™** KT-1000-03
Make connections between genes and disease, personal identification, and the use of biotechnology for genetic analysis.
General high school, advanced high school, college
PCR, gel electrophoresis

**Agricultural Monitoring Lab: A Case Study in Antibiotic Resistance** KT-1010-01
Students establish whether farms are at risk from antibiotic-resistant bacteria.
General high school, advanced high school, college
PCR, gel electrophoresis

**Forensics Lab: Analysis of the D1S80 VNTR** KT-1009-01
Students must rule themselves out as a suspect! Use your own DNA to explore concepts of inheritance, DNA polymorphism, genetic diversity, and forensic analysis.
General high school, advanced high school, college
DNA extraction, PCR, gel electrophoresis

**Food Safety Lab: Mars Colony at Risk!** KT-1001-03
Help astronauts control an outbreak of pathogenic bacteria in space food bound for Mars!
General high school, advanced high school
PCR, restriction digest, gel electrophoresis

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
PCR Learning Labs™

Plant Genetics Lab: Taking Mendel Molecular with Wisconsin Fast Plants® KT-1011-01
Investigate the genotypic basis of a phenotype using Wisconsin Fast Plants®.
General high school, advanced high school, college
DNA extraction, PCR, gel electrophoresis

GMO Detection Lab KT-1003-01
Fast and robust PCR-based GMO detection from your favorite foods.
General high school, advanced high school, college
DNA extraction, PCR, gel electrophoresis

miniPCR Sleep Lab™: Lark or Owl? KT-1005-01
Participate in an authentic investigation on the genetics of sleep.
Advanced high school, college
DNA extraction, PCR, gel electrophoresis

Genotype to Phenotype: PTC Taster Lab KT-1004-03
Use molecular techniques to determine whether you carry taster or non-taster alleles.
General high school, advanced high school, college
DNA extraction, PCR, restriction digest, gel electrophoresis

Visit www.minipcr.com for up-to-date pricing and promotions.
miniPCR® Research Projects
Reagents and protocols to design your own investigation

eDNA Project: Sampling Soil for Antibiotic Resistance KT-1012-02
Join a nationwide monitoring program that tests for antibiotic resistance genes in environmental soil samples. In this project-based lab, students collect soil samples and use PCR and gel electrophoresis to detect tetracycline resistance genes.

Advanced high school, college
DNA extraction, PCR, gel electrophoresis

Mushroom ID Project: Fungal DNA Barcoding Kit KT-1014-01
There are hundreds of thousands of mushrooms and other fungi to discover. This kit provides reagents needed to identify them using PCR to amplify the ITS barcoding region.

Advanced high school, college
DNA extraction, PCR, gel electrophoresis, DNA sequencing (not included)

Bacterial DNA Barcoding: 16S rRNA Amplification Kit KT-1015-01 - Coming soon
Starting with your own bacterial isolates, use PCR to amplify the 16S rRNA barcoding sequence. Follow this with DNA sequencing to uniquely identify bacterial species.

Advanced high school, college
DNA extraction, PCR, gel electrophoresis, DNA sequencing (not included)
P51™ Molecular Glow Labs™

DNA Glow Lab™: Exploring DNA Structure  KT-1900-01
Investigate how DNA sequence, temperature, and pH interact with the double helix. Move beyond paper models and investigate DNA structure directly!
General high school, advanced high school, college

Enzyme Lab: β-Gal Glow™ KT-1900-02
Use an inquiry-based approach to investigate enzyme activity. Measure the effect of pH, temperature, concentration, and competitive inhibition on enzyme reaction rates.
General high school, advanced high school, college

Introduction to Fluorescence Lab:
Glow Big or Glow Home KT-1900-04
How many molecules of fluorescein make a highlighted word glow? This skill-building lab serves as an introduction to fluorescence and its applications in biotechnology.
Middle school, general high school, advanced high school

Visit www.minipcr.com for up-to-date pricing and promotions.
P51™ Molecular Glow Labs™

**qPCR Lab: Principles of Quantitative PCR**  KT-1900-05

Students will directly visualize amplification of DNA and will be able to calculate relative concentrations of DNA template. Explore qPCR using your existing PCR machine!

General high school, advanced high school, college

**COVID qPCR Lab: Detecting SARS-CoV-2 Infection**  KT-1900-06

Practice the techniques used in diagnosing patients for SARS-CoV-2 infection! Use PCR and the P51™ fluorescence viewer to get hands-on experience with qPCR principles and determine if fictional patients are infected with the SARS-CoV-2 virus.

General high school, advanced high school, college

**Chlorophyll Lab: A Free Resource**  KT-1900-03

Use fluorescence to directly observe energy capture and transfer by natural photopigments—and be surprised at the result!

Middle school, general high school, advanced high school

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
BioBits® is an advanced synthetic biology system ready for the classroom. Cell-free technology allows users to synthesize proteins directly in a test tube by simply adding DNA. Simple to use and requiring minimal equipment, the BioBits® cell-free system lets you investigate fundamental biology concepts, hands on.
BioBits® Learning Labs™

**BioBits®: Central Dogma classroom kit** KT-1910-01
Fluorescent outputs allow students to directly visualize the flow of genetic information, from DNA to RNA to protein, all in real time. Classroom kit includes reagents for 8 lab groups.

*General high school, advanced high school, college*

**BioBits® @home: Central Dogma** KT-1102-01
Set of 10 KT-1102-10
Get everything you need for one person to perform the BioBits® Central Dogma lab! @home kit includes reagents for two experiments, a P51™ Molecular Fluorescence Viewer, and a 4 μl minipette with tips.

**BioBits®: Protein Structure and Function** KT-1910-03
Investigate the link between a protein's three-dimensional shape and its function by analyzing sequences and expressing colorful fluorescent proteins in a cell-free system.

*General high school, advanced high school, college*

**BioBits®: Antibiotic Resistance** KT-1910-06
Explore antibiotic resistance at the biochemical level. Use antibiotics to disrupt cell processes and antibiotic resistance genes to restore them!

*General high school, advanced high school, college*

Visit [www.minipcr.com](http://www.minipcr.com) for up-to-date pricing and promotions.
CRISPR/Cas gene editing technology has revolutionized modern biology. Now, your students can manipulate DNA using science that won the 2020 Nobel Prize in Chemistry and enables life saving gene therapies.

Don’t settle for simulations. Put CRISPR/Cas in the hands of your students!

Knockout smiles!

AP Biology students at Springside Chestnut Hill Academy in Pennsylvania successfully transformed cells with CRISPR technology to disable bacterial genes. The gene targeting event (or gene “knockout”) disrupted an enzyme that converts sugar into a blue product. Knockout bacteria are unable to break down this sugar and remain white.

Learn more about the Knockout! CRISPR/Cas lab on the next page.
Knockout! A CRISPR/Cas Gene Targeting Lab  
Full lab kit KT-1800-01  
Refill kit KT-1800-03  
Extra vial of cells RG-1800-02

Perform cutting-edge genome editing! This lab allows advanced students to use the CRISPR/Cas system to disrupt a gene in bacteria and observe the resulting phenotypic change.

- Advanced high school, college
- CRISPR/Cas, bacterial transformation

Knockout! PCR Genotyping Experiment  
KT-1800-02

Optional follow-up to the Knockout! Lab. Confirm successful CRISPR/Cas gene targeting at the molecular level using PCR and gel electrophoresis.

- Advanced high school, college
- PCR, gel electrophoresis

Chopped! Using CRISPR/Cas to Cut DNA  
KT-1801-01

Use CRISPR/Cas in a test tube with a direct gel electrophoresis readout. Without any major prep or cells to culture, experiment directly with the gene targeting mechanism of CRISPR/Cas at the molecular level!

- General high school, advanced high school, college
- CRISPR/Cas, gel electrophoresis

Access free CRISPR/Cas teaching resources

Visit www.minipcr.com for up-to-date pricing and promotions.
Bacterial Transformation Labs
See also Knockout! on p.43

True Blue™ Bacterial Transformation Lab KT-1802-01

Transform bacteria and observe a phenotypic change. Featuring a simple protocol that requires minimal equipment and teacher prep.

General high school, advanced high school, college

The Cozy Cube™ Incubator QP-1800-10

- USB-powered
- Steady 37 °C
- Sturdy polystyrene container
- Holds up to 32 stacked 100 mm Petri dishes

“miniPCR bio’s equipment really stands up to classroom use! We run a loaner program for teachers and our materials get used by hundreds of students per year. miniPCR bio’s equipment really lasts!”

-Ashley Walter, Program & Partnership Coordinator at The Baxter Center for Science Education

Visit www.minipcr.com for up-to-date pricing and promotions.
Meet the makers!

Dilli, Sunil, and Nathalia (pictured from left to right) work tirelessly behind the scenes to optimize our reagents’ performance so you have the best possible experience with our tools in your lab or classroom.

From troubleshooting new protocols to quality-checking our Learning Labs to stability testing our polymerases, their dedicated work demonstrates our commitment to enabling your science, wherever it takes place.

Meet the entire team at https://www.minipcr.com/about/
Engaging hands-on activities for personalized learning

Micropipetting @home: Microliter Madness KT-1101-01
Set of 10 KT-1101-10

Make micropipetting fun! Kit contains reusable supplies for an individual to complete three engaging activities: micropipetting practice, gel loading practice, and pipette art. Compatible with 4 μl and 10 μl minipettes.

Middle school, general high school, advanced high school, college

P51™ @home: STEM Explorations That GLOW KT-1100-03
Set of 10 KT-1100-10
Refill kit KT-1100-01

Lab includes three guided activities to introduce students to the fluorescence all around them. Kit contains a P51™ fluorescence viewer and supplies and reagents for an individual user.

Middle school, general high school

BioBits® @home: Central Dogma KT-1102-01
Set of 10 KT-1102-10

Use cell-free technology to visualize gene expression in real time. Kit contains a P51™ fluorescence viewer, fixed volume micropipette, and supplies and reagents for an individual user to perform the lab twice.

General high school, advanced high school, college

Visit www.minipcr.com for up-to-date pricing and promotions.
Learn on the miniPCR bio™ YouTube channel

· Step-by-step guides
· Educational webinars
· Product intros

Visit our channel at: https://www.youtube.com/minipcrbio
Tutorials

Introduce your students to core molecular biology techniques with carefully designed:

• Written explanations
• Videos
• Student worksheets

Topics include:

• Micropipetting
• Gel electrophoresis
• Polymerase chain reaction
• And more!

View the entire collection at minipcr.com/tutorials
Two-page explanations of molecular biology topics written using nontechnical language

Review, critical thinking, and discussion questions

Topics include: CRISPR/Cas, RNA vaccines, DNA barcoding, and more!

Browse the entire collection at dnadots.minipcr.com
Genes in Space™

Genes in Space™ is a free science contest that invites middle and high school students to propose DNA experiments that address space exploration challenges. Winners have their experiments launched to the International Space Station where they are carried out by astronauts using miniPCR technology.

Genes in Space™ was founded in 2015 by miniPCR bio in partnership with Boeing. Since then, thousands of middle and high school students have designed real-world experiments in space biology.

LEARN MORE AT
www.genesinspace.org

In 2023, high school student Pristine Onuoha launched her experiment to the International Space Station to study the mechanisms of telomere lengthening, a paradoxical chromosomal change observed in space travelers.
Genes in Space is a free science contest that invites middle and high school students to propose DNA experiments that address space exploration challenges. Winners have their experiments launched to the International Space Station where they are carried out by astronauts using miniPCR technology.

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LEARN MORE AT www.genesinspace.org

Genes in Space is supported by:

LEARN MORE About our hands-on professional development opportunities!
Email outreach@minipcr.com to learn about upcoming sessions.

Virtual PD
Join our workshops and learn biotech from home!

Lab in a Box
Biotechnology loans for classrooms

Free*, 2-week loans include:
• Class set of PCR and electrophoresis equipment and accessories
• Space-biology themed reagents and curriculum
• Teacher training and support

VISIT genesinspace.org/lib to request a loan

* After voluntary $100 shipping fee
Taking molecular biology to new places

Decoding python morphs

Charlie Williams is a ball python breeder and at-home scientist. He has a newfound and growing passion for genetics and DNA testing. With the help of miniPCR equipment and support, Charlie routinely extracts DNA from Ball Python sheds and tests them for gene variants that influence color patterns, known as morphs. Work like Charlie’s has provided the Ball Python community reliability in their breeding projects.

Bringing DNA Day to Ghana

Through their passion for scientific outreach Drs. Nancy Sey, Tessa Montague and Fred Rubino brought their expertise and miniPCR equipment to Opoku Ware and Yaa Asantewaa senior high schools in Kumasi, Ghana. Students got the opportunity to practice pipetting and embrace their inner detective through the Wrongfully Convicted Forensics lab.
“We take pride in enabling science out of the lab in ways that were never before possible.”

- Zeke Alvarez Saavedra, PhD, miniPCR bio co-founder