minipcros

Running a PCR with a miniPCR thermal cycler

Connect to the miniPCR

- 1. Open the miniPCR[®] app on your computer or mobile device. You can download it from the app store or at www.minipcr.com/downloads.
- 2. Plug the miniPCR into an outlet using the provided power supply and press the power button to turn the machine on.
- 3. Connect the miniPCR to your device using the supplied USB cable or via Bluetooth[®]. To establish a Bluetooth connection from the miniPCR app:
 - 3a. Select the Devices tab (computer) or icon (m) (mobile, top center of the screen).
 - 3b. Click or tap the Bluetooth symbol (*) next to the miniPCR you would like to connect. The serial number can be found either on the back or the base of the miniPCR.





Program the miniPCR

- 4. In the miniPCR app, select the Library tab.
- 5. Select the "Add" button (+) on the top right corner to create a new protocol, then select PCR.

			New protocol				
	Computer view	,					
	minipcr	Library	•••	minipcr	Library	🌲 : •••	
Library	Library			Library			
	Now running			Now running		PCR	PCR
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	Sort by Most used	4					
			He	eat Block	n -		
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				Flex			
			6				



- 6. Enter a name for the protocol.
- 7. Enter the PCR protocol parameters listed in the Learning Lab guide for the experiment you are performing.
- 8. Select "Save."

Computer view

minipcr		Library				<u>پ</u>		
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No No		New	PCR proto	ocol	>	<		
De den	no PCR pro	ogram						
				Heat	ed lid 💫 🔵			
den	Initial naturation	Denaturation	Annealing] Extension	Final extension			
	94.0 °C	<u>94.0 °C</u>	60.0 °C	72.0 ℃	72.0 °C			
	<u>30 s</u>	S Number	of cycles	<u></u>	<u>s</u>		-	for your experiment
				Save	Save and run			

Mobile view

< 回 PCR protocol				
Demo PCR program				
	Heated I			
Initial denaturation:	94.0 °C	30 s		
Denaturation:	94.0 °C	15 s		
Annealing:	60.0 °C	15 s		Enter the parameters
Extension:	72.0 °C	20 s		for your experiment
Number of cycles:		30		
Final extension:	72.0 °C	30 s		
Save only Save and run				



Run the PCR

- 9. Open the lid on the miniPCR.
- 10. Place the PCR tubes containing your samples in the metal block. Ensure that the caps on the tubes are closed securely.
- 11. Close the lid on the miniPCR.
- 12. In the miniPCR app, select the Library tab.
- 13. Select the protocol you want to use, then click or tap the "Run" button (





14. Select the Monitor tab to view the reaction parameters in real time. Note: Once the program has started, the miniPCR will complete the program even if disconnected from your computer or mobile device.



15. When the PCR protocol is completed, the Protocol status will display "Finished" and the red, yellow, and green lights on the miniPCR will illuminate and stay on. Note: PCR products are stable at room temperature for several days. For longer-term storage, move samples to a fridge or freezer.