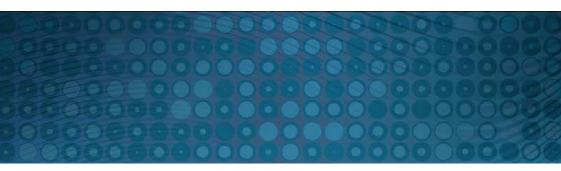
PCR Starter Kit For 96-well fast blocks, 0.1 mL

Part. No. 4376868 Revison F







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Product description

The PCR Starter Kit contains sample consumables necessary to start using your new Applied Biosystems™ Thermal Cycler. These consumables are designed to promote efficient heat transfer to obtain fast, high-performance polymerase chain reaction (PCR).

The table below lists the samples included in the kit. It does not list the actual quantities of the starter kit components. To re-order any of these items refer to the catalog number.

Note: For safety and biohazard guidelines, refer to the "Safety" appendix in the user guide for your thermal cycler. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Kit contents

Component	Cat. No.	Quantity [1]	Image
MicroAmp™ EnduraPlate™ Optical 96-Well Fast Clear Reaction Plates with Barcode	4483485	3 ea	**************************************
MicroAmp™ Fast 8-Tube Strip, 0.1 mL	4358293	12 pc	VVVVVVV
MicroAmp™ Clear Adhesive Film	4306311	5 pc	
MicroAmp™ 8-Cap Strip, clear	N8010535	12 pc	
MicroAmp™ Fast Reaction Tube with Cap, 0.1 mL	4358297	12 pc	

^[1] This number refers to the quantity included in the starter kit, and may differ from the quantity received when re-ordering components using the catalog numbers provided in the table.

Component	Cat. No.	Quantity [1]	Image
MicroAmp™ Splash-Free 96-well Base	4312063	1 ea	01 01
MicroAmp™96-Well Tray for VeriFlex™ Blocks	4379983	1 ea	
MicroAmp™ Cap Installing Tool	4330015	1 ea	
MicroAmp™ Adhesive Film Applicator	4333183	1 ea	
MicroAmp™ Multi Removal Tool	4313950	1 ea	

^[1] This number refers to the quantity included in the starter kit, and may differ from the quantity received when re-ordering components using the catalog numbers provided in the table.

How to use the MicroAmp™ Splash-free 96-well Base

The MicroAmp $^{\text{\tiny M}}$ Splash-free 96-well Base is compatible for use with MicroAmp $^{\text{\tiny M}}$ reaction plates, tube strips, or reaction tubes, and provides a stable platform from which you can set up your experiment.

	Step Action	
1	Set up base and add reaction mix	 a. Set up the 96-well base. If using reaction plates, place the PCR plate on the base. If using tubes, place the tray on the base and load the tray with tubes. [1] b. Pipette the reaction mix into the tubes/wells. c. Seal the plate/tubes. If using reaction plates, seal the PCR plate with adhesive film. If using tubes, cap the tubes with the Cap Installing Tool.
2	Place plate or tubes into instrument	 a. Remove the plate or tray with tubes from the 96-well base. b. Place the plate or tray with tubes into the sample block. ① MicroAmp™ Reaction Tube ② MicroAmp™ 96-Well Tray for Veriflex™ Blocks ③ MicroAmp™ Splash Free 96-Well Base

[1] For details on using MicroAmp™ tubes/strips, see "How to use the MicroAmp™ 96-well Tray for Veriflex™ Blocks" (page 7).

How to use the MicroAmp™96-well Tray for Veriflex™Blocks

The MicroAmp[™] 96-well Tray for Veriflex[™] Blocks (Cat. No. 4379983) is used to distribute pressure evenly across the sample block. The tray is compatible for use with **single** MicroAmp[™] reaction tubes with attached caps.

When small numbers of tubes (≤8–16 tubes) are placed in the sample block without support, they can be crushed or deformed when the lid of the thermal cycler is closed over the block. Using the tray and retainer set allows the pressure to be distributed evenly over the tubes to ensure a proper seal, and prevent damage.

Using the tray and retainer set is optional when using ≥16 tubes that are distributed evenly across the block.

Prepare samples using MicroAmp™ reaction tubes

	Step	Action	
1	Load the tray	a. Place the black tray on a 96-well base.b. Load the tubes into the tray.	0 2
2	Fill and cap tubes	a. Pipette the reaction mix into the tubes.b. Cap the tubes.	3
3	Place tray and tubes into instrument	 a. Remove the black tray containing the sealed tubes from the 96-well base. b. Load the black tray containing the sealed tubes into the sample block. 	 MicroAmp™ Reaction Tube MicroAmp™ 96-Well Tray for Veriflex™ Blocks MicroAmp™ Splash Free 96-Well Base

How to use the MicroAmp[™] Adhesive Film Applicator

The Micro $Amp^{^{TM}}$ Adhesive Film Applicator enables you to ergonomically push an adhesive film down upon a PCR plate to form a tight seal and minimize air bubbles. This tight seal will prevent well-to-well contamination and sample loss.

Seal a PCR plate with adhesive film

Step		Action	1
		a. Place the PCR plate on a Splash-free 96-well base.b. Remove the backing from the	
1	Apply film to plate	adhesive film.	
	Piuto	c. Place the adhesive film on the PCR plate, making sure to cover all the wells.	
		a. Rub the flat edge of the applicator back and forth along the long edge of the plate	500 B00 B00 B00 B00 B00 B00 B00 B00 B00
2 Seal		b. Rub the flat edge of the applicator back and forth along the short edge (width) of the plate.	DOCUMENT OF THE PARTY OF THE PA
	Seat plate	c. Rub the end of the applicator horizontally and vertically between all wells.	
		d. Rub the end of the applicator around all outside edges of the plate using small back and forth motions to form a complete seal around the outside wells.	

How to use the MicroAmp™ Cap Installing Tool

The MicroAmp $^{\text{\tiny TM}}$ Cap Installing Tool enables you to ergonomically seal MicroAmp $^{\text{\tiny TM}}$ reaction tubes in a tray/retainer set or 96-well reaction plate. This tight seal will prevent well-to-well contamination and sample loss.

Seal a PCR plate with MicroAmp™ Optical (Flat) Cap Strips

	Step	Action	
1	Apply cap strip to plate	a. Place the PCR plate on a Splash-free 96-well base.b. Align the flat cap strip over the appropriate wells of the PCR plate.	
2	Align tool	a. Slip your fingers through the handle of the Cap Installing Tool.b. Grasp the tool with the circular side facing up, and the grooved side facing down.	
3	Seal plate	a. Place the grooved rings over the first caps in a row.b. Push and seat each cap firmly in place. Use a rocking motion to properly seat each cap.	

Seal a PCR plate with MicroAmp™ Domed Cap Strips

	Step	Action	
	Apply cap	a. Place the PCR plate on a Splash-free 96-well base.	
1	Apply cap strip to plate	b. Align the domed cap strip over the appropriate wells of the PCR plate.	
		a. Slip your fingers through the handle of the Cap Installing Tool.	
2	Align tool	b. Grasp the tool with the grooved side facing up, and the grooved circular side facing down.	
		a. Place the circular holes over the first caps in a row.	88883
3	Seal plate	b. Push and seat each cap firmly in place. Use a rocking motion to properly seat each cap.	

Remove cap strips from a PCR plate

Use the tool to remove $MicroAmp^{TM}$ Caps or $MicroAmp^{TM}$ Optical Caps from PCR plate and tray/retainer assemblies.

Step	Action	
1	Insert the small protrusions on the side of the Cap Installing Tool under the webbing between the caps on a cap strip.	
2	Slowly pry the strip from the plate or tray/retainer assembly.	

How to use the MicroAmp™ Multi Removal Tool

The Micro Amp^{TM} Multi Removal Tool makes it easy to open caps, and remove PCR plates that get stuck on the sample block due to heat expansion after performing PCR.

Use this multi-functional tool to open MicroAmp $^{\text{\tiny TM}}$ Tubes or GeneAmp $^{\text{\tiny TM}}$ Tubes with attached caps, remove PCR plates from a thermal cycler sample block, and remove cap strips from reaction tubes in a PCR plate and tray/retainer assembly.

Open a tube with attached cap

Use the tool to open MicroAmp $^{\text{\tiny TM}}$ Tube with Cap, GeneAmp $^{\text{\tiny TM}}$ Tubes, or Fast Reaction Tube with Cap.

Step	Action	
1	Insert tube into U-shaped slot.	
2	Lift Multi Removal Tool to pry lid open.	

Remove cap strips from a PCR plate

Use the tool to remove MicroAmp $^{\text{\tiny TM}}$ Caps 8 or 12 Strip from a PCR plate or tubes in a tray/retainer assembly.

Step	Action	
1	Insert the small protrusions on the side Multi Removal Tool under the webbing between the caps of a cap strip.	
2	Slowly pry the strip from the plate or tray/retainer assemblies.	

Remove a PCR plate from a sample block

Use the tool to remove $\mathsf{MicroAmp}^{^\mathsf{TM}}$ Optical 96-Well Reaction Plate or 96-Well Fast Thermal Cycling Plate from the thermal cycler sample block.

Step	Action		
1	Insert prong of Multi Removal Tool beside or adjacent the side of the PCR plate. Use the single pronged side of the tool on the short side of the plate. Use the two-pronged side of the tool on the long side of the plate.		
2	Pry to remove the plate from the sample block.		

Remove a PCR plate from a sample block with roboslots

Use the tool to remove $MicroAmp^{TM}$ 384-Well Reaction Plate or 96-Well Fast Thermal Cycling Plate from a thermal cycler sample block.

Step		Action
1	Insert the two hook protrusions into the short side of the PCR plate.	
2	Lift to remove the plate from the sample block.	

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www. thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.

MicroAmp™ plastic consumables for Applied Biosystems™ PCR systems

These consumables are compatible with Veriti $^{\text{\tiny TM}}$ PCR systems with 96-well 0.1 mL (fast) blocks. Go to thermofisher.com/plastics for additional details.

Product	Catalog No.				
96-well 0.1 mL reaction plates					
Fast Optical 96-Well Plate, 0.1 mL	4346907				
Fast Optical 96-Well Plate with Barcode, 0.1 mL	4346906, 4366932				
EnduraPlate Optical 96-Well Fast Clear Plate with Barcode [1]	4483485, 4483494				
Strip tubes and caps					
Fast 8-Tube Strip, 0.1 mL	4358293				
8-Cap Strip [1]	N8010535, N8011535				
Optical 8-Cap Strip	4323032				
12-Cap Strip [1]	N8010534, N8011534				
Single tubes					
Fast Reaction Tube with Cap, 0.1 mL	4358297, 4358293				
Seals and covers					
Clear Adhesive Film	4306311				
Optical Adhesive Film	4360954, 4311971				
Accessories					
Splash-Free 96-Well Base	4312063				
96-Well Support Base	4379590				

^[1] Multiple colors are available.

$\textbf{MicroAmp}^{\text{\tiny{M}}} \ \textbf{plastic compatibility chart}$

Product	Catalog No.				
96-well 0.2 mL reaction plates					
Optical 96-Well Plate	N8010560, 4316813				
Optical 96-Well Plate with Barcode	4306737, 4326659				
96-Well Plate with Barcode & Optical Caps	403012				
Optical 96-Well Plate with Barcode & Optical Adhesive Films	4314320				
EnduraPlate Optical 96-Well Clear Plate with Barcode [1]	4483354, 4483352				
TriFlex 3 x 32-Well Reaction Plate [2]	A32810, A32811				
96-well 0.1 mL reaction plates					
Fast Optical 96-Well Plate, 0.1 mL	4346907				
Fast Optical 96-Well Plate with Barcode, 0.1 mL	4346906, 4366932				
Endura Plate Optical 96-Well Fast Clear Plate with Barcode [1]	4483485, 4483494				
384-well reaction plates	<u> </u>				
Optical 384-Well Plate	4343370				
Optical 384-Well Plate with Barcode	4309849, 4326270, 4343814				
Endura Plate Optical 384-Well Clear Plate with Barcode [1]	4483285, 4483273				
Strip tubes and caps					
Fast 8-Tube Strip, 0.1 mL	4358293				
Optical 8-Tube Strip with Attached Optical Caps, 0.2 mL	A30588				
8-Tube Strip with Attached Domed Caps, 0.2 mL	A30589				
8-Tube Strip, 0.2 mL [1]	N8010580				
Optical 8-Tube Strip, 0.2 mL	4316567				
8-Cap Strip [1]	N8010535, N8011535				
Optical 8-Cap Strip	4323032				
12-Cap Strip [1]	N8010534, N8011534				
Single tubes	,				
Fast Reaction Tube with Cap, 0.1 mL	4358297, 4358293				
Reaction Tube with Cap, 0.2 mL [1]	N8010540, N8010612, N8011540				
Reaction Tube without Cap, 0.2 mL [1]	N8010533, N8011533				
Optical Tube without Cap, 0.2 mL	N8010933				
Seals and covers					
Clear Adhesive Film	4306311				
Optical Adhesive Film	4360954, 4311971				
32-Well Clear Adhesive Film [2]	A32812				
Accessories	·				
Splash-Free 96-Well Base	4312063				
96-Well Support Base	4379590				
96-Well Base	N8010531				
96-Well Reaction Tube/Tray/Retainer Set, 0.2 mL	403083, 403086				

^[1] Multiple colors are available.

^[2] Do not use MicroAmp™ 3 × 32-Well Retainer.

3 x 32-well	96-well, 0.2 mL	96-well, 0.1 mL (Fast)	384-well				
ProFlex™	Veriti™, ProFlex™, SimpliAmp™	Veriti™	ProFlex™, Veriti™				
96-well 0.2 mL reaction plates							
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• [2]	•	-	-				
	96-well 0.1 mL	reaction plates					
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	384-well rea	ection plates					
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	Strip tube	s and caps					
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	Single	tubes					
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	Seals an	d covers					
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Seals and covers							
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