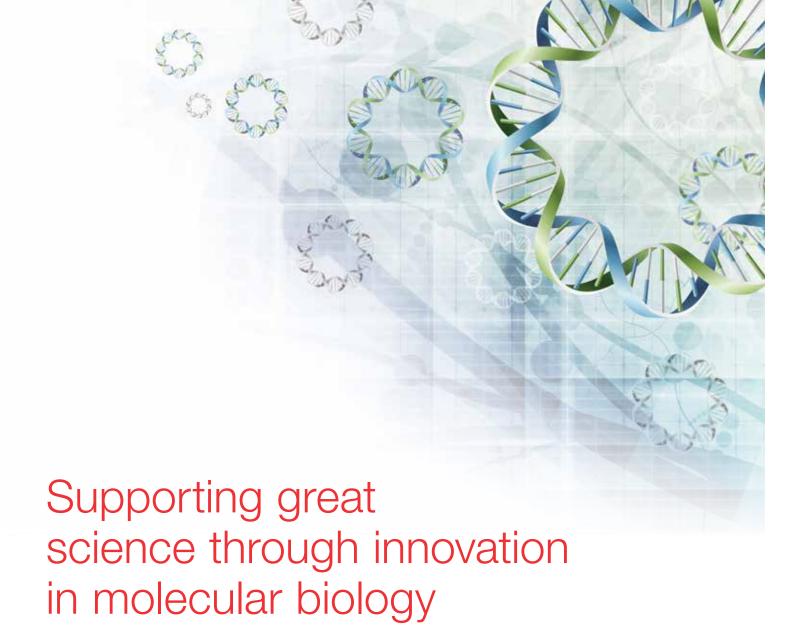


# Thermo Scientific PCR plastics selection guide

Superior quality for high-performance PCR





For over 25 years, the Thermo Scientific™ molecular biology portfolio has represented leading technology, reliable results, and service. Our innovations produced novel restriction enzymes, the highest-fidelity polymerases, and thermostable reverse transcriptases. Today, the people behind our expanding portfolio remain committed to supporting your research and making it even easier for you to do great science.

# Thermo Scientific PCR plastics

## Our passion—your results

- Designed, manufactured, and tested to enable optimal PCR and qPCR performance
- White plastics optimized for qPCR
- Wide range of sealing options
- Standard and customized plate barcoding

## All PCR plastics are the same. Right? Wrong.

We supply a comprehensive range of high-quality consumables for molecular biology research. These trusted products represent a complete, state-of-the-art offering for molecular biology research. Protect your entire PCR workflow by choosing Thermo Scientific™ plastics.

## thermofisher.com/thermoscientificplastics

# Not all PCR plastics are created equal

## Contents

Choosing a plate	5
How our products are different	8
White plastics—optimized for qPCR	10
PCR plates	12

Please refer to the following compatibility table to find the Thermo Scientific<sup>™</sup> plate suitable for your instrument. Plate model recommendations are based on optimal PCR performance and ease of handling. Most recommended plates are either fully skirted or semi-skirted, as these plates offer increased rigidity, which reduces plate warping during thermal cycling, facilitates

multichannel pipetting, and improves overall

**Additional instruments** Scientific

PCR

	Skirted	Low profile	12
-well	Skirted, robotic	Low profile	12
	Semi-skirted	Fast block Flat deck Raised deck Segmented	13
	Non-skirted	Standard Low profile	14

Standard

24

96-well																																							
Fully skirted	Low profile	AB-0800, AB-2800			•	•	•					•			•	•	•	L		•	•	•	•	•	3 3	•	•	•	•	3		• • 2	ž.	•	•	•	•	•	
Skirted, robotic	Low profile	AB-2396		$\perp$	•	•	•					•			•	•	•	L		•	•	•	•	•	•	•	•	•	•	3	$\mathbf{I}$	• • 2	2	•	•	•	•	•	
Semi-skirted	Standard profile	AB-1400		•	•		•	•	•			•	•	•	•	•	•	Ш		•	•	•		•	•	•		•	•		1					•	•	•	
Semi-skirted, segmented	Standard profile	AB-0900		•	•	•	•	•	•			•	•	•	•	•	•	Е		•	•	•		•	•	•		•	•							•	•	•	
Semi-skirted, robotic	Standard profile	AB-2596		•	•	•	•	•	•			•	•	•	•	•	•	Г		•	•	•		•	•	•	1	•	•		I					•	•	•	
Sorri Grantoa, reserio	Low profile	AB-2496			•	•	•			<u> </u>		•			•	•	•		•	•	•	•		Ŀ	•	•	<u> </u>	•	•	 1	1		Ш	Ш		Ŀ	•	•	
Non-skirted	Standard profile	AB-0600	•	•					•		•	•	•	•	•	•	•			•	•	•		•		•		•	•							•	•	•	
TVOIT SKILLOU	Low profile	AB-0700	•		•					•	•	•	•1	●¹		•	•			•	•	•		•		•	•	•	•							•		•	

Thermal cyclers

Bio-Rad

Ultrathin wall	Low-profile	24-well 24-well white 96-well 96-well white	14–15						
	Robotic	Armadillo							
384-well	Standard	Standard Extra volume							
Barcoding options			18						
Selection guide: tubes	s and caps		20						
Individual tubes and s	Individual tubes and strips								

24- or 48-well Semi-skirted

Selection guide: sealing options

**Ultrathin** wall

24- or 48-well

ease of use.

	24-well	SPL0240		• •	• • •	• • •		•	• • •	
Low profile	24-well, white	SPL0241		• •	• •	•				•
Low profile	96-well	SPL0960								•
	96-well, white	SPL0961								•

## 384-well

Robotic	Standard profile AB-2384	•		•	• •		•			
Standard	Standard profile AB-1384			•	• •			•		
Extra volume	Standard profile AB-0937			•		0 0 0			•	

Recommended plate
 Alternative option

1 Compatible with "Perfect Fit Frames" available from Agilent.

2 For MegaBACE 1000 instruments purchased before July 2000, use PCR CyclePlate, 96-well (Cat. No. AB-1243).

Standard profile AB-0624, AB-0648 • • • • • •

3 Plates compatible with fully skirted block only.



Choose the right plate

To help ensure proper fit and uniform heat

transfer, we test each of our plate types across

a broad range of PCR and qPCR cyclers and

sequencers. Choose a plate that has been

validated for use with your instrument block.

for your cycler

# Amplify with confidence

Our manufacturing process does not include any shortcuts and is carried out in a world-class facility run by qualified experts. Our PCR plastics manufacturing facility is solely focused on the production of high-quality molecular grade plastics. Our team of engineers, molecular biologists, and QC/QA managers have the years of experience needed to help deliver reliable products that generate accurate and reproducible PCR data. Thermo Scientific™ PCR plastics are designed, manufactured, and tested to enable PCR performance.

## PCR-focused manufacturing



## Cleanroom production



To avoid contaminants that can interfere with molecular biology applications, our entire production process, from molding to final packaging, is carried out in a Class 100,000 cleanroom under ISO 9001 guidelines. All of our PCR plastics are certified free from RNase, DNase, and human DNA.

In contrast, during typical non-cleanroom production, plastics are exposed to many contaminants including dust, bacterial cells, and DNA. The plastics are then sterilized to kill bacteria and inactivate RNases and DNases, but sterilization does not remove dust or DNA contamination. The dust particles left behind can inhibit PCR, and the damaged DNA fragments can still act as templates for nonspecific amplification.

## Medical-grade virgin polypropylene

The polymer we use is a select medical-grade polypropylene chosen for its exceptional biocompatibility. This polymer is inert and will not interfere with or adsorb PCR reaction components. To ensure purity, only virgin pellets are used—plastic waste from our manufacturing is recycled, but is not used in our products.

## Precision mold design and maintenance

Mold design and maintenance dramatically affect the quality of the PCR plastic—unpolished well surfaces can bind reaction components, and the presence of trace chemicals can inhibit amplification. Our tools are designed and maintained with this in mind, with no lubricants or releasing agents used in any part of the production process, and molds are cleaned and inspected after each

production run. The mold cavities are also extensively polished to produce ultrasmooth PCR well surfaces. This precision design and maintenance helps ensure our plastics are chemical-free and ultrasmooth to prevent PCR inhibition and maximize sample recovery.

## Unparalleled QC testing

## Integrity testing

Every well of every plate is visually inspected and tested using an electrostatic pinhole detection method. This thorough screening verifies every well is intact to protect all reactions.

## **Evaporation testing**

Samples from each lot are run through PCR cycling to test sealing performance. Well liquid volumes are analyzed post-PCR to verify seal integrity. This ensures every production lot conforms to strict tolerances.

## Biological testing

Samples from each batch are biologically tested to certify them free of RNase, DNase, and human DNA. Every package contains a PCR certificate for your convenience and documentation.



# Innovative product design

## High efficiency, reduced variability

Uniform, ultrathin walls enable maximum and consistent heat transfer for equally high performance from every sample.

Secure, easy sealing

create a tight seal that

is still easy to open and

close. Strip tubes are

available in individually

attached cap versions.

Specially designed caps

Ultrathin wall technology for fast

Thermo Scientific™ ultrathin wall tubes and plates represent the new generation of PCR consumables, bringing significantly improved performance in fast PCR and qPCR assays. Each well wall is approximately 50% thinner than standard thin-walled tubes and plates. This further reduces the thermal barrier to heat flow into and out of the

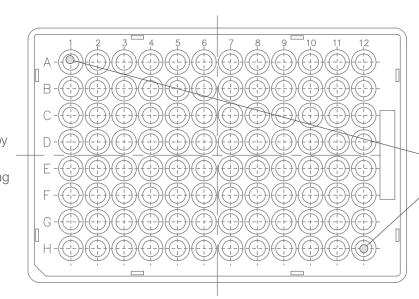
## Raised rim design around

**Evaporation protection** 

each well enables secure sealing and safeguards against evaporation.

## White plastics for enhanced qPCR detection

Thermo Scientific™ white qPCR plastics are designed to provide sensitive and accurate fluorescence detection by preventing refraction out of the tube and increasing the signal-to-noise ratio.



## Consistent results from A1 to H12

PCR sample, resulting

in faster and more

robust reactions.

Reinforced plate decks and ultrarigid options prevent plate warping and keep heat transfer consistent across the entire plate.

# White plastics—optimized for qPCR

As with any fluorescence-based assay, qPCR requires specialized plastics to achieve optimal results. Thermo Scientific™ white qPCR plastics are designed to provide sensitive and accurate fluorescence detection. When used together with Thermo Scientific™ Ultra Clear caps or optical seals, these products will help increase sensitivity and reduce variability in your qPCR assay.

# Increased sensitivity for improved detection of low copy number targets

White plates give maximum signal reflection
Our white plates reflect significantly more signal than
traditional clear plates (Figure 1). The improved signal
reflection ensures that even the lowest levels of
fluorescence are detected (Figure 2).

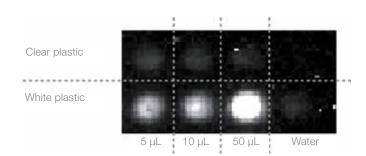


Figure 1. White plates reflect significantly more signal than clear plates. Three dilutions of fluorescein were added to either white or clear plates and detected using a CCD camera. White plastic reflects signal more effectively than clear plastic, resulting in a higher signal-to-noise ratio.

## Optical seals allow for maximum signal transmission

Our Thermo Scientific<sup>™</sup> ABsolute<sup>™</sup> qPCR adhesive seal features a pressure-sensitive sealing design. This nontacky adhesive binds to the well rims only upon application of pressure. This creates a strong seal only where it is needed, and leaves well openings ultraclear for maximum fluorescence transmission.

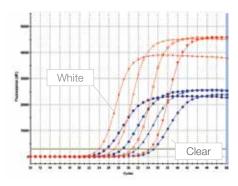


Figure 2. Increased signal reflection leads to lower  $C_t$  values. qPCR amplification of GAPDH using 100 ng, 10 ng, 1 ng, and 100 pg of human genomic DNA. Red amplification plots representing the white plates show earlier  $C_t$  values and higher endpoint fluorescence compared to the blue plots for the clear plates.

# Reduced variability for tighter technical replicates and improved reproducibility

White well walls enable consistent signal reflection

White well walls prevent signal from passing through to the cycler block, where it can be inconsistently reflected or absorbed (Figure 3). This minimizes variations in the cycler block that could affect your qPCR data (Figure 4).

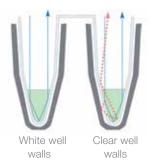


Figure 3. White well walls prevent signal refraction and absorption. Clear well walls allow signal refraction through to the cycler block, where it can be partially absorbed, introducing well-to-well variability. White well walls are nontransparent and isolate the signal to prevent signal loss.

# High-quality seal manufacture helps ensure consistent signal transmission and secure sealing

Thermo Scientific™ qPCR seals are precision manufactured for consistent seal thickness and transparency, resulting in equal signal transmission across the entire plate. The pressure-sensitive adhesive used creates a secure bond to minimize evaporation and maintain high PCR efficiency in each sample.

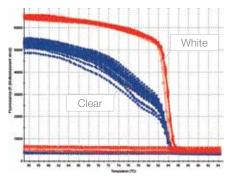


Figure 4. Reduced well-to-well variability produces more consistent qPCR data. Melting profiles of GAPDH amplicons in white plates (red) and clear plates (blue) are shown across four 10-fold dilutions of human genomic DNA. Signal refraction causes increased variability in clear plates.

# PCR plates



## Armadillo PCR plate, 96-well, skirted

- Thermo Scientific™ Armadillo™ PCR plates offer a polycarbonate skirt for warp-resistant thermal cycling—see page 17 for details
- Recommended for automated workflows
- Maximum well volume: 0.2 mL
- Cut corner: H1

## Ordering information

Armadillo PCR plate, 96-well									
AB-2396 Clear	To select a frame color, please suffix the								
BC-2396 Clear with barcode	part number with /B for blue,								
AB-3396 White PCR	/G for green, /O for orange,								
BC-3396 White with barcode (PCR)	/R for red, or /Y for yellow								
Pack size: 25 plates									



## PCR plate, 96-well, fully skirted, low profile

- ANSI footprint and stackable for use in automated systems
- Low profile to reduce dead space and increase PCR efficiency
- Available as Thermo Scientific<sup>™</sup> SuperPlate<sup>™</sup> version, providing 4x more rigidity for superior robotic handling
- Maximum well volume: 0.2 mL
- Cut corner: H1

## Ordering information

AB-0800	Clear
AB-0800-L	Clear with black letters
BC-0800	Clear with barcode
ΔR_0800ΛΛ/	M/hita @

AB-0800/W-L White with black letters BC-0800/W White with barcode

PCR plate, 96	PCR plate, 96-well, fully skirted, low profile										
AB-0800	Clear	AB-0800/B Blue									
AB-0800-L	Clear with black letters	AB-0800/G Green									
BC-0800	Clear with barcode	AB-0800/P Purple									
AB-0800/W	White PCR	AB-0800/R Red									
AB-0800/W-L	White with black letters	AB-0800/Y Yellow									
BC-0800/W	White with barcode (PCR)	Pack size: 25 plates									

## SuperPlate PCR plate, 96-well, low profile AB-2800 Clear AB-2800/W White PCR



## Armadillo PCR plate, 96-well, semi-skirted, low profile

- Directly compatible with Roche LightCycler 480 and LightCycler 96 with no adapters necessary—see page 17 for details
- Low profile to reduce dead space and increase PCR efficiency
- Maximum well volume: 0.2 mL
- Cut corner: H12

## Ordering information

Armadillo	Armadillo PCR plate, 96-well, semi-skirted, low profile									
AB-2496	Clear	To select a frame color, please suffix the								
AB-3496	White wells PCR	part number with /B for blue,								
BC-2496	Clear with barcode	/G for green, /O for orange,								
BC-3496	White with barcode (PCR)	/R for red, or /Y for yellow								



## PCR plate, 96-well, semi-skirted, flat deck

- Directly compatible with all standard platforms including sequencers with no adapters necessary
- Flat deck of plate facilitates sealing and handling
- Available as SuperPlate version, providing 4x rigidity for superior robotic handling
- Maximum well volume: 0.3 mL
- Cut corner: A12

## Ordering information

PCR plate, 96-well, semi-skirted, flat d	eck	SuperPlate PCR plate, 96-well, semi-skirted, flat deck					
AB-1400 Clear	AB-1400/B Blue	AB-2400	Clear				
AB-1400-L Clear with black letters	AB-1400/G Green	BC-2400	Clear with				
BC-1400 Clear with barcode	AB-1400/P Purple	barcode	Olda Will				
AB-1400/W White 碗	AB-1400/R Red	AB-2400/W	White (PCR)				
AB-1400/W-L White with black letters 碗	AB-1400/Y Yellow		White with barcode (PCR)				
BC-1400/W White with barcode 碗	Pack size: 25 plates	20 2 100/ **	······································				



## Armadillo PCR plate, 96-well, semi-skirted

- Armadillo PCR plates offer a polycarbonate skirt for warp-resistant thermal cycling—see page 17 for details
- Recommended for automated workflows
- Maximum well volume: 0.3 mL
- Cut corner: A12

## Ordering information

Armadillo	PCR plate, 96-well, semi-skirted	
AB-2596	Clear	To select a frame color, please suffix the
AB-3596	White wells (PCR)	part number with /B for blue,
BC-2596	Clear with barcode	/G for green, /O for orange,
BC-3596	White with barcode (PCR)	/R for red, or /Y for yellow
		Pack size: 25 plates



## PCR plate, 96-well, semi-skirted, segmented

- Proprietary segmented plate design allows plates to be cut into 24- and 48-well sections
- Semi-skirt adds rigidity and allows for labeling or barcoding
- Maximum well volume: 0.3 mL
- Cut corner: H1

## Ordering information

PCR plate, 9	PCR plate, 96-well, semi-skirted, segmented										
AB-0900	Clear	AB-0900/B Blue									
BC-0900	Clear with barcode	AB-0900/G Green									
AB-0900/W	White (PCR)	AB-0900/P Purple									
BC-0900/W	White with barcode (PCR)	AB-0900/R Red									
		AB-0900/Y Yellow									
		Deals aless OF relates									

Pack size: 25 plates



## PCR plate, 96-well, non-skirted, low profile

- Low profile to reduce dead space and increase PCR efficiency
- Available with black alphanumeric lettering
- Maximum well volume: 0.2 mL
- Cut corner: H12

## Ordering information

PCR plate, 96-well, non-skirted, low profile AB-0700/B Blue AB-0700-L Clear with black letters AB-0700/G Green AB-0700/W White AB-0700/P Purple AB-0700/R Red

> AB-0700/Y Yellow Pack size: 25 plates



## PCR plate, 96-well, non-skirted, standard

- Non-skirted format compatible with most thermal cyclers
- Available with black alphanumeric lettering
- Maximum well volume: 0.3 mL
- Cut corner: H1

### Ordering information

PCR plate, 96-well, non-skirted, standard

AB-0600	Clear	
AB-0600-L	Clear with black letters	
AB-0600/W	White PCR	
AB-0600/W-L	White with black letters	<b>GPCR</b>

AB-0600/B Blue AB-0600/G Green AB-0600/P Purple AB-0600/R Red AB-0600/Y Yellow

Pack size: 25 plates



## Ordering information

Piko 96-well PCR plate SPL0960 Clear PCR SPL0961 White

Pack size: 200 plates

Piko 96-well PCR frame

Pack size: 50 frames, only available in white

SFR0961 White

## Piko 96-well PCR plates and frames

- Ultrathin wall for fast PCR and qPCR applications
- Low profile
- Designed for use with Thermo Scientific<sup>™</sup> Piko<sup>™</sup> and PikoReal<sup>™</sup> 96-well thermal cyclers
- Plates can be snapped into plate frame to create a standard 384-well plate
- Compatible with standard multichannel pipettes and liquid handling platforms
- Well spacing and footprint conform to industry (ANSI) dimensions
- Maximum well volume: 40 μL

# SFR0241, SPL0240

## Piko 24-well PCR plates and frames

- Ultrathin wall for fast PCR and qPCR applications
- Low profile
- Designed for use with Piko and PikoReal 24-well thermal cyclers
- Plates can be snapped into plate frame to create a standard 96-well plate
- Compatible with standard multichannel pipettes and liquid handling platforms
- Well spacing and footprint conform to industry (ANSI) dimensions
- Maximum well volume: 0.2 mL

## Ordering information

Piko 24-well PCR plate Piko 24-well PCR frame SPL0240 Clear (PCR) SFR0241 White SPL0241 White

Pack size: 50 frames

Pack size: 200 plates

## AB-0624/AB-0648





## PCR plate, 24- and 48-well, semi-skirted, segmented

- Conveniently precut into 24- or 48-well segments
- Semi-skirt adds rigidity and allows for labeling or barcoding
- Maximum well volume: 0.3 mL

## Ordering information

PCR plate, 24-well, semi-skirted AB-0624 Clear AB-0624/W White

Pack size: 50 plates Pack size: 50 plates

PCR plate, 48-well, semi-skirted

AB-0648 Clear

AB-0648/W White PCR

## AB-1800/AB-1800W



## **VersiPlate PCR Strip Tube Plate, 96-well, low profile**

- Strip of eight tubes linked to each other forming the familiar 12 x 8 or 96-well ANSI format.
- Tear points between strips enable single or multiple strip requirements for customized experiments
- Maximum fill volume of 0.2 mL

## Ordering information

VersiPlate PCR Strip Tube Plate, 96-well, low profile

AB-1800 Clear AB-1800/W White

Pack size: 25 plates

AB-1805 Pack size: 25 frames

VersiPlate Frame, 96-well, skirted



## Armadillo PCR plate, 384-well

- Armadillo PCR plates offer a polycarbonate skirt for warp-resistant thermal cycling—see page 17 for details
- Recommended for automated workflows
- Maximum well volume: 40 μL
- Cut corner: A24

## Ordering information

Armadillo F	PCR plate, 384-well	
AB-2384	Clear	T
BC-2384	Clear with barcode	р
AB-3384	White PCR	/(
BC-3384	White with barcode (PCR)	

To select a frame color, please suffix the part number with /B for blue, /G for green, /O for orange, /R for red, or /Y for yellow

Pack size: 50 plates



## PCR plate, 384-well, fully skirted, standard

- Fully skirted for use with automated systems
- Compatible with all leading 384-well block thermal cyclers
- Maximum well volume: 40 μL
- Cut corner: A24

## Ordering information

PCR plate, 3	84-well, fully skirted, standard	
AB-1384	Clear	AB-1384/B Blue
3C-1384	Clear with barcode	AB-1384/G Green
AB-1384/W	White (PCR)	AB-1384/P Purple
3C-1384/W	White with barcode (9PCR)	AB-1384/R Red
		AB-1384/Y Yellow
		Pack size: 50 plates



## PCR plate, 384-well, fully skirted, raised chimney

- Raised chimney design for extra volume
- Increased well volume accommodates sequencing and wash steps
- Maximum well volume: 55 μL
- Cut corner: A24

## Ordering information

PCR plate, 384-well, fully skirted, raised chimney

AB-0937 Clear
Pack size: 100 plates



# The ultimate plate for high-throughput PCR and automated handling

Armadillo PCR plates combine the rigidity of a polycarbonate frame with thin-walled polypropylene wells to provide superior thermal cycling performance under all conditions without warping. Armadillo plates are available in 96- and 384-well formats in multiple colors. They can be ordered with a standard 128 barcode or custom barcoding. The specially designed warp-resistant frame and multiple format options make Armadillo PCR plates the ultimate choice for high-throughput and automated handling.

- Polycarbonate frame for warp-resistant thermal cycling
- Enhanced mechanical stability for robotic handling
- Thin-walled wells for optimal heat transfer
- Optimized well shape for maximum sample recovery
- Flat alphanumeric lettering and raised-rim well design for improved heat sealing
- Optically clear deck allows for easy visibility of wells
- Multiple frame color options, all available in both clear (for PCR) and white colored wells (for qPCR)

To find out more, go to thermofisher.com/armadillo

# Barcoding options

# Add reliable tracking to your PCR workflow

Streamline your sample tracking with barcoded PCR plates. All Thermo Scientific<sup>™</sup> fully skirted and semi-skirted PCR plates are available with random, off-the-shelf barcoding or custom barcoding for complete flexibility. All of our barcodes are designed to deliver reliable reading performance and durability for secure and efficient tracking.

Barcode labels are scratch-resistant and are able to withstand chemical exposures and wide temperature extremes from –196°C to 120°C.

## Off-the-shelf barcoded plates

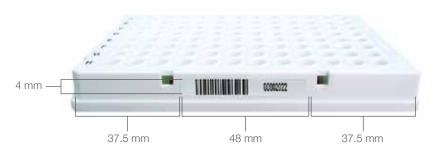
Our off-the-shelf barcoded plates can be ordered immediately, and are available for each fully skirted or semi-skirted PCR plate model. The standard Code 128 barcode has been carefully designed and positioned for compatibility

with all major barcode readers. Codes are random and each barcode also includes a human-readable format as a backup to help ensure valuable samples can always be identified.



# Choose Thermo Scientific<sup>™</sup> barcodes

- Wide temperature tolerance (-196°C to 120°C)
- Proprietary coating for superior scratch resistance
- Precise sizing and placement for reliable scanning



## **Custom barcoding services**

Do you have specific requirements not met by our off-the-shelf Code 128 barcoded plates? Our custom barcode services are flexible enough to meet your unique tracking specifications. These services utilize our durable barcodes and apply them in your preferred configuration or format, with any sequence, on any plate. Let us solve your tracking needs with our wide range of options.

# Design the perfect barcoding solution to fit your unique needs

Choose Thermo Scientific plates for the ultimate in barcoding flexibility:

- Plate type—any fully skirted or semi-skirted plate from the entire range of PCR plates
- Barcode format—Code 128, Code 39, or Interleaved 2 of 5, with flexible human-readable code position
- Label size—available in standard label sizes or customizable according to requirements
- Barcode density—range of dimensions available
- **Sequence**—you determine start-to-end sequence and alphanumeric pattern
- Positioning—any code on any side, all the same code or varied

## **Barcode format options**

			Barcode type	
		Code 128	Code 39	Code Interleaved 2 of 5
ion	7 mils	A0000002	A00000002	00000001
x-dimension	10 mils	A0000002	A00002	00000001
p-x	13 mils	A0000002	A002	00000001

## **Minimum order requirements**

1,000-plate minimum orders. Smaller quantities may be possible, but are subject to an additional fee. Please inquire.

To order your barcoding solution today, go to

thermofisher.com/custombarcodes

# Thermo Scientific PCR plastics selection guide for individual tubes, strip tubes, and caps by thermal cycler

							Bio	-Rad						Agil trata	ent gene	e)	Ер	pendo	orf		Bio	metr	а		Bil Scie (Tec		c )	Gene Technologies	MWG-Biotech		Takara	Th	ermo	Scien	tific
				T100, MJ Mini	iOycler, MyOycler	PTC-2(xx)	PTC-100 with 96-well block	iCycler	iQ4, iQ5, MyiQ, MyiQ2	CFX96	Opticon	MiniOpticon	SureCycler 8800	RoboCycler Gradient 96	Mx4000	Mx3000P, Mx3005P	Mastercycler Gradient	Mastercycler ep Gradient, pro, nexus	Mastercycler ep realplex	T1 Thermocycler	TGradient	TRobot	TProfessional	TOptical	e, TC-412, TC-4000	Genius, Ioucngene, IC-512, IC-5000	TC-PLUS, Prime, PrimeG, Prime Elite	GS1, GS4, GSX	Primus 96	THEQ Lifecycler	TP 3000	PCR Express, Px2, PxE	MultiBlock Satellite (MBS) System	Piko 24 Arktik	PikoReal 24
Tube format	Type of cap			F	0 6			Ö	Ö	Ö	Ö	Σ	જ	K	Ś	Σ	Š	Ž	Š	F	7	Ë	Ė	7	Ĕ	Ď i		Ğ	Ţ	<u></u>	片	P	Σ	P.	
Standard profile 0.2 mL individual tubes	Flat	AB-0620	NA	-	_   -	-   -	-   -							-			_				-	-	_		_   -	-   -		_	_		_	_	_		
Standard profile 0.5 mL individual tubes	Flat	AB-0350	NA																				_		_   -	_   -						_	_		
	Flat	AB-1182	NA	_	_   -	-   -	-							_			_				_	_	_		_   -	_   -		_	_		_	_	_		-
	Ultra Clear	AB-1183	NA	•	•		•	•	•					•	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	
Standard profile 0.2 mL strip tubes	Ultra Clear	AB-1191	NA					•	•						•	•			•											•					
	Flat	AB-2000	NA	_	_   -	-								_			_	-			_	_	_					_				_	_		
	Ultra Clear	AB-2005	NA						•						•				•											•				_	
Low profile 0.1 mL individual tubes	Ultra Clear	TUC0010	NA							•	•								•					•								•	•		
	Ultra Clear	TUC0011	NA							•									•					•											•
	Flat	AB-0776	NA	_	-	-   -	-   -						_	_			_	_		_	_		_			-   -		_	_		_	_	-		
Low profile 0.2 mL strip tubes	Ultra Clear	AB-1770	NA	•				•																								•			
	Ultra Clear	AB-1771	NA 1915							•																				•					
VersiPlate	Flat Ultra Clear	AB-1800	AB-1815 AB-1820																					•											
Versir late	Ultra Clear	AB-1800/W	AB-1820																											•					
	Ollia Oleal	YD-1000/44	VD-1050																																

									-		•	-		-	-
					-				-   -			_   -		-   -	Cycler, Mycycl
							•		-		•			-	C1000, S1000
				•							•	_		-	PTC-2(xx)
											•	_			PTC-100 with 8
•	•	•						•		•	•				iCycler
								•		•	•				iQ4, iQ5, MyiQ,
•	•	•				•	•								CFX96
•	•	•				•	•								Opticon
•	•		•			•	•								MiniOpticon
	_														SureCycler 880
	_			•					_		•	_		_	RoboCycler Gr
								•		•	•				Mx4000
								•		•	•				Mx3000P, Mx3
				•	_				_		•	_		_	Mastercycler G
					_				_		•	_		_	Mastercycler ep
•	•	•				•	•	•		•	•				Mastercycler ep
									_		•	_		_	T1 Thermocycl
					_				_		•	_		_	TGradient
											•				TRobot
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•	•	•		•		•	•								TOptical
											•	_			Flexigene, TC-
				•	_						•	_	-	-	Genius, Touchg
				•							•	_			TC-PLUS, Prim
	_			•	_				_		•	_		_	GS1, GS4, GS)
					_						•	_		_	Primus 96
•		•		•				•		•	•				THEQ Lifecycle
	_			•							•	_		_	TP 3000
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_	Flat cap
•	Ultra Clear
	Recommended
	Acceptable

# Individual tubes and strips





## **Individual tubes**

- Compatible with standard 0.2 mL or 0.5 mL thermal cycler blocks
- Ultrathin wall (UTW) and low profile for fast PCR applications
- Caps form a secure seal, yet are easy to open and close
- Also available in assorted colors

## Ordering information

### 0.1 mL individual tubes

TUC0010 UTW with flat caps Clear (PC)
TUC0011 UTW with flat caps White (PC)

Pack size: 960 tubes

U.Z IIIL III	dividual tubes	
AB-0620	Flat caps	Clear
AB-0622	Flat caps	Various

AB-0622	Flat caps	Various colors
AB-0337	Domed caps	Clear
AB-0491	Domed caps	Various colors

Pack size: 1,000 tubes

### 0.5 mL individual tubes

AB-0350	Flat caps	Clear
AB-0533	Flat caps	Various colors
AB-0489	Domed caps	Clear
AB-0535	Domed caps	Various colors

Pack size: 1,000 tubes



## 0.2 mL strip tubes

- Compatible with 0.2 mL thermal cycler blocks
- Ultra Clear cap options ideal for use in qPCR assays
- Caps form a secure seal, yet are easy to apply and remove
- 8 tubes per strip

## Ordering information

## 0.2 mL strip tubes

AB-1182	Flat caps	Clear
AB-0496	Flat caps	Various colors
Da al . a:	050 to les atoles /	-1

Pack size: 250 tube strips/cap strips

AB-0266	Domed caps	Clear
AB-0490	Domed caps	Various colors
Dook oizo	250 tubo atripa/aan	etrine

Pack size: 250 tube strips/cap strips

AB-1183 Ultra Clear caps Clear (PC)
AB-1191 Ultra Clear caps White (PC)

Pack size: 120 tube strips/cap strips



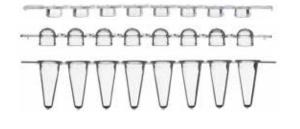
## **EasyStrip Plus tube strips**

- Thermo Scientific™ EasyStrip™ Plus tube strips have individually attached caps to help prevent cross-contamination
- Graduated 20 µL markings on each tube to verify tube reaction volumes
- End tabs to label each strip and track samples
- Each tube cap and cap hinge is labeled A through H for quickly identifying individual wells and helping to prevent pipetting errors

## Ordering information

EasyStrip Plu	us tube strips	
AB-2000	Flat caps	Clear
AB-2005	Optical caps	Clear PCR

Pack size: 250 strips



From top to bottom: AB-0776, AB-0775

## Low-profile strip tubes

- Ideal for reaction volumes below 20 µL
- Compatible with 0.2 mL thermal cycler blocks
- Low profile to reduce dead space and increase PCR efficiency
- Labelled A-H end tabs

## Ordering information

Low-profile strip tubes							
AB-0776	Flat caps	Clear					
AB-0778	Flat caps	Various colors					
AB-0775	Domed caps	Clear					

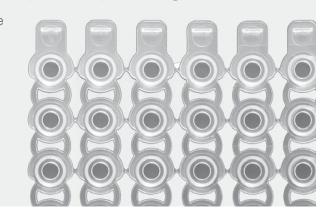
AB-0777 Domed caps Various colors
AB-1770 Ultra Clear caps Clear (PC)
AB-1771 Ultra Clear caps White (PC)

Pack size: 250 tube strips/cap strips

## VersiCap Mats—efficient and environmentally friendly sealing solution

Thermo Scientific™ VersiCap™ Mats are versatile seals compatible with 96-well PCR plates as well as 8-tube PCR strips. VersiCap Mats are designed so that strips of eight caps are linked to one another with small tear points. This allows easy separation of the exact number of cap strips required for an experiment, which helps to reduce plastic waste. When sealing plates, multiple cap strips can be applied at the same time, resulting in shorter PCR setup time and simplified overall workflows.

Learn more at thermofisher.com/thermoscientificplastics



# PCR sealing options

We offer a wide range of robust sealing options to suit any application. All of our sealing products are designed to provide ultimate sample protection while maintaining a simple, easy-to-use format. Thermo Scientific™ qPCR sealing options are optically clear to enable maximum and consistent signal transmission, critical

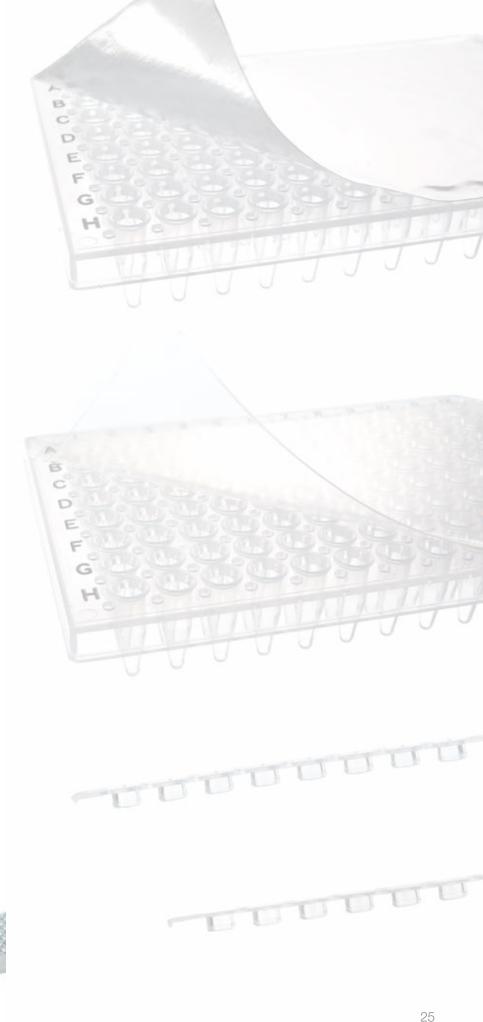
- Successfully tested
- \* Not recommended

for accurate qPCR results.

CR results.			PCR c	ap strips					Adhesi	ve seals		
		Flat cap strips <sup>2</sup>	Domed <sup>2</sup> cap strips	Ultra Clear qPCR cap strips	Ultra Clear flat cap strips for UTW <sup>3</sup> plates	Flat cap VersiCap Mats <sup>2</sup>	Ultra Clear VersiCap Mats		PCR foil seal	PCR film seal	Piko PCR/ qPCR film seal	ABsolute qPCR seal
	Cat. No. –	AB-0784 (8 capsper strip)	AB-0265 (8 caps per strip)	AB-0866 (8 caps per strip)	TCS-1080 (8 caps per strip)	AB-1815 (12 x 8 strips)	AB-1820 (12 x 8 strips)		AB-0626	AB-0558	ASF-0020	AB-1170
	Pack size –	250 strips	250 strips	120 strips	120 strips	25 mats	25 mats		100 sheets	100 sheets	400 sheets	50 sheets
	PCR (including water bath)	•	•	•	•	•	•		•	•	•	•
	qPCR	×	×	•	•	×	•		×	×	•	•
Applications –	Sealing temp. range	-20°C to 120°C	-20°C to 120°C	-20°C to 120°C	-20°C to 120°C	-20°C to 120°C	–20°C to 120°C		-40°C to	-20°C to 120°C	-20°C to 120°C	-80°C to
	Long-term storage	•	•	•	•	•	•		•	•	×	×
	Pierceable	×	×	×	×	×	×		8.1 N force	×	×	×
Mechanical	Peelable	•	•	•	•	•	•		•	•	•	•
properties	Resealable	•	•	•	•	•	•		•	•		
	Thickness <sup>1</sup>								75 μm	255 µm	255 µm	100 µm
	DMSO (100%)	•	•	•	•	•	•		•	×	×	•
	Ethanol (100%)	•	•	•	•	•	•		×	×	×	•
Resistance -	Isopropanol (100%)	•	•	•	•	•	•		×	×	×	•
	UV irradiation	•	•	•	•	•	•					
	Gamma irradiation	•	•	•	•	•	•					
	Applicator tools	AB-0536	AB-0536	AB-0536					AB-1391	AB-1391	AB-1391	AB-1391
Compatible products	Tubes/plates	8-strip PCR tubes 96-well PCR plates	8-strip PCR tubes 96-well PCR plates	8-strip PCR tubes 96-well PCR plates	SPL0240 SPL0241	8-strip PCR tubes 96-well PCR plates	8-strip PCR tubes 96-well PCR plates		All plates	All plates	SPL0240 SPL0241 SPL0960 SPL0961	All plates
liner. ding to the instrument	( )				Total Control			1101.01				



<sup>2.</sup> Choose cap shape according to the instrument manufacturer's recommendation.



<sup>3.</sup> Ultrathin wall.



One place for all your PCR plastics needs **thermofisher.com/thermoscientificplastics** 



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