# molecular biology



# Thermo Scientific PCR plastics selection guide

Superior quality for high-performance PCR



# Supporting great science through innovation in molecular biology

For over 25 years, the Thermo Scientific<sup>™</sup> molecular biology portfolio has represented leading technology, reliable results, and service. Our innovations produced novel restriction enzymes, the highestfidelity 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 gPCR performance
- White plastics optimized for gPCR
- 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<sup>™</sup> plastics.

# thermofisher.com/thermoscientificplastics

# Not all PCR plastics are created equal

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#### Choosing a plate

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 ease of use.

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Non-skirted	Low profile	14	No	on-skirted	Standard profile		• • • • • •			• • •	· · · · · · · · · · · · · · · · · · ·		•	• • •		111	••	•
					Low profile	AB-0700												
			24	4- or 48-well														
24- or 48-well Semi-skirter	d Standard	15	Ser	emi-skirted	Standard profile	AB-0624, AB-0648	• • • • •	• •	• • •	• • •		 • • •	•	• • •			•	
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Ultrathin wall Low-profile		e 14–15				SPL0241		• •	• •	•								
	96-well 96-well white			w promo	96-well 96-well, white	SPL0960												•
					96-well, white	3PL0901												
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384-Well Standard	Standard Extra volume			andard	Standard profile				•	• •			•		• •			
	Extra volume	9	Ext	tra volume	Standard profile	AB-0937							•					
Barcoding options		18	• F	Recommended plate	Alternative option													
			-	Compatible with "Perfect Fit Frame:														
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		22	-															
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PCR	qPCR	PCR	qPCR	PCR	qPCR	qPCR	PCR	aPCR		qPCR	Gene Technologies	MWG- Biotech	Takara	Amersham	MJ Research Transgenomic	PCR	qPC
MJ Mini T100 (Cycler, MyCycler C1000, S1000 PTC-2(xx) PTC-100 with 96-well block	iCycler iQ4, iQ5, MyiQ, MyiQ2 CFX96, CFX384 Opticon MiniOpticon	SureCycler 8800 RoboCycler Gradient 96	Mx4000 Mx3000P, Mx3005P	Gradient	Mastercycler ep Gradient, pro, nexus Mastercycler ep realplex	LightCycler 480 LightCycler 96	T1 Thermocycler TGradient/TAdvanced	l Hobot TProfessional TOptical	, TC-412, TC-4000 Duchgene, TC-512, TC	TC-PLUS, Prime, PrimeG, Prime Elite PrimeQ	GS1, GS4, GSX	Primus 96 Primus 384 THEQ LifeCycler	TP 3000	MegaBACE 500 MegaBACE 1000 mark II MegaBACE 4000	BaseStation WAVE	PCR Express, Px2, PxE MultiBlock Satellite (MBS) System Piko 24 Piko 96 Arktik	PikoReal 24

Low-profile versions minimize the air space above the PCR reaction, further reducing evaporation effects. We recommend that you choose the low-profile options where available.

# Choose the right plate for your cycler

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.

# 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<sup>™</sup> 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.

Integrity testing In contrast, during typical non-cleanroom production, Every well of every plate is visually inspected and tested plastics are exposed to many contaminants including dust, using an electrostatic pinhole detection method. This bacterial cells, and DNA. The plastics are then sterilized thorough screening verifies every well is intact to protect to kill bacteria and inactivate RNases and DNases, but all reactions. sterilization does not remove dust or DNA contamination. The dust particles left behind can inhibit PCR, and the **Evaporation testing** 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

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**

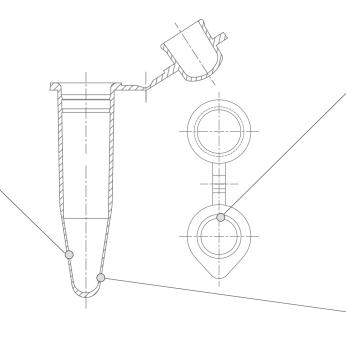
Samples from each batch are biologically tested to certify them free of RNase, DNase, and human DNA. Every package contains a PCR certificate for your convenience and documentation.



# 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

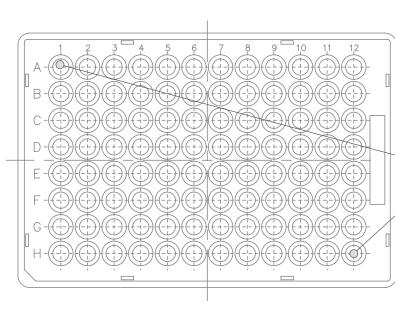
Specially designed caps create a tight seal that is still easy to open and close. Strip tubes are available in individually attached cap versions.

#### **Ultrathin wall** technology for fast PCR

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 PCR sample, resulting in faster and more robust reactions.

#### White plastics for enhanced qPCR detection

Thermo Scientific™ white gPCR 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

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

## **Evaporation protection**

Raised rim design around each well enables secure sealing and safeguards against evaporation.

# White plastics—optimized for qPCR

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

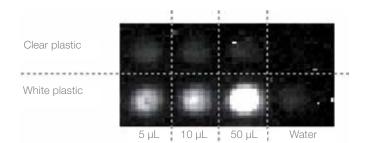


Figure 1. White plates reflect significantly more signal than clear plates. Three dilutions of fluorescein were added to either white or clear plates and detected using a CCD camera. White plastic reflects signal more effectively than clear plastic, resulting in a higher signal-to-noise ratio.

#### Optical seals allow for maximum signal transmission

Our Thermo Scientific<sup>™</sup> ABsolute<sup>™</sup> gPCR 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.

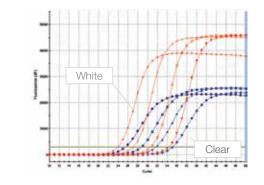
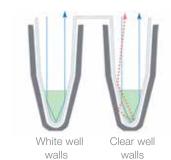


Figure 2. Increased signal reflection leads to lower Ct values. qPCR amplification of GAPDH using 100 ng, 10 ng, 1 ng, and 100 pg of human genomic DNA. Red amplification plots representing the white plates show earlier Ct values and higher endpoint fluorescence compared to the blue plots for the clear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



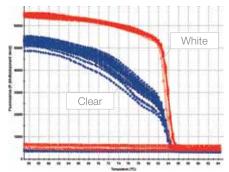
#### Figure 3. White well walls prevent signal refraction and absorption. Clear well walls allow signal refraction through to the cycler block, where it can be partially absorbed, introducing well-to-well variability. White well walls are nontransparent and isolate the signal to prevent signal loss.

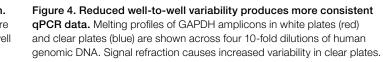




#### High-quality seal manufacture helps ensure consistent signal transmission and secure sealing

Thermo Scientific<sup>™</sup> 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.





# PCR plates





#### Ordering information

AB-2496

#### 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 $\overline{P}_{CR}$	Pack size: 25 plates

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

Armadillo PCR plate, 96-well, skirted

Recommended for automated workflows

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

4x more rigidity for superior robotic handling

• ANSI footprint and stackable for use in automated systems

SuperPlate PCR plate, 96-well, low profile

• Low profile to reduce dead space and increase PCR efficiency

• Available as Thermo Scientific<sup>™</sup> SuperPlate<sup>™</sup> version, providing

• Maximum well volume: 0.2 mL

• Cut corner: H1

AB-2396 Clear

AB-3396 White ma

Pack size: 25 plates

• Cut corner: H1

Ordering information

Armadillo PCR plate, 96-well

BC-2396 Clear with barcode

BC-3396 White with barcode (PCR)

• Maximum well volume: 0.2 mL

AB-2800 Clear

AB-2800/W White (Prog

• Thermo Scientific<sup>™</sup> Armadillo<sup>™</sup> PCR plates offer a polycarbonate skirt

for warp-resistant thermal cycling-see page 17 for details



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

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



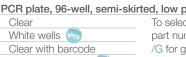
#### PCR plate, 96-well, semi-skirted, flat deck AB-1400/B Blue AB-1400 Clear AB-1400/G Green AB-1400-L Clear with black letters BC-1400 Clear with barcode AB-1400/P Purple AB-1400/R Red AB-1400/W White AB-1400/W-L White with black letters may AB-1400/Y Yellow BC-1400/W White with barcode Pack size: 25 plates







AB-( BC-0 AB-C BC-0



12

#### 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

AB-2400	Clear
BC-2400	Clear with
barcode	
AB-2400/W	White (PPCR)
BC-2400/W	White with barcode great

#### 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

-2596	Clear	To se
-3596	White wells	part
-2596	Clear with barcode	/G fo
-3596	White with barcode 碗	/R fo

elect a frame color, please suffix the number with /B for blue. or green, /O for orange, or red, or  $\bigwedge$  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, 96-well, semi-skirted, segmented

0900	Clear	AB-0900/B Blue
0900	Clear with barcode	AB-0900/G Green
0900/W	White (PPCR)	AB-0900/P Purple
-0900/W	White with barcode	AB-0900/R Red
		AB-0900/Y Yellow

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	Clear	AB-0700/B Blue
AB-0700-L	Clear with black letters	AB-0700/G Green
AB-0700/W	White (PPCR)	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

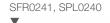
#### PCR plate, 96-well, non-skirted, standard

AB-0600	Clear	,	AB-0600/B	Blue
AB-0600-L	Clear with black letters		AB-0600/G	Gre
AB-0600/W	White (PCR)		AB-0600/P	Pur
AB-0600/W-L	White with black letters		AB-0600/ <mark>R</mark>	Rec
			AB-0600/Y	Yello

Pack size: 25 plates

#### **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



AB-0624/AB-0648





Piko SPL

SPL

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



PCR AB-0 AB-0 Pack

Orde Vers 96-w AB-AB-

SPL0960 Clear ma

AB-0600

SPL0960

 $\mathbf{T}$ 

Ordering information Piko 96-well PCR plate SFR0961 White

SPL0961 White 9Pca Pack size: 200 plates

- Piko 96-well PCR frame
- Pack size: 50 frames, only available in white

AB-1800/AB-1800W V









#### **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

	Clear	
SPL0241	White (PCR)	

Piko 24-well PCR frame SFR0241 White Pack size: 50 frames

• 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

plate, 24-well, semi-skirted								
0624	Clear							
)624/W	White	9PCR						
k size: 50	plates							

PCR plate, 48-well, semi-skirted AB-0648 Clear AB-0648/W White (PCR) Pack size: 50 plates

#### 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	VersiPlate Frame, 96-well, skirted						
AB-1800 Clear	AB-1805 White						
AB-1800/W White Prop	Pack size: 25 frames						
Pack size: 25 plates							



#### 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 PCR plate, 384-well



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

AB-1384

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

AB-1384	Clear	AB-1384/B Blue
BC-1384	Clear with barcode	AB-1384/G Green
AB-1384/W	White 🦇	AB-1384/P Purple
BC-1384/W	White with barcode	AB-1384/R Red
		AB-1384/Y Yellow

AB-1384/P Purple	
AB-1384/R Red	
AB-1384/Y Yellow	
Pack size: 50 plate	S





#### 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**

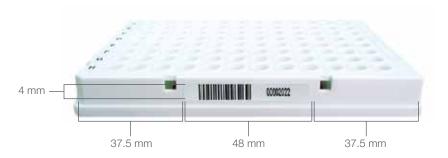
Our off-the-shelf barcoded plates can be ordered immediately, and are available for each fully skirted or semiskirted PCR plate model. The standard Code 128 barcode has been carefully designed and positioned for compatibility

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-theshelf 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.

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

### **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**

#### **Minimum order requirements**

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

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

								Bio-	Rad						Agil trata	ent Igeni	e)	Epţ	oend	orf		Bio	meti	ra		Sc	Bibby ienti echn	fic	Gene Technologies		
Tube format	Type of cap	Tubes	Caps	T100, MJ Mini	iCycler, MyCycler	C1000, S1000	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	Flexigene, TC-412, TC-4000	Genius, Touchgene, TC-512, TC-5000	TC-PLUS, Prime, PrimeG, Prime Elite	GS1, GS4, GSX	Primus 96	THEQ Lifecycler
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						•	•						•	•			•											•
	Ultra Clear	TUC0010	NA			•					•	•	•							•					•						
Low profile 0.1 mL individual tubes	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						•		•	•	•							•					•						•
	Flat		AB-1815	—	_	—	—	—						—	—			—	—		—	_	_	—		—	—	—	—	—	
VersiPlate	Ultra Clear	AB-1800	AB-1820						•		•	•	•							•					•						
	Ultra Clear	AB-1800/W	AB-1820						•		•	•	•							•					•						•



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Takara	Th	erm	o Sci	ienti	fic
TP 3000	PCR Express, Px2, PxE	MultiBlock Satellite (MBS) System	Piko 24	Arktik	PikoReal 24
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# Individual tubes and strips





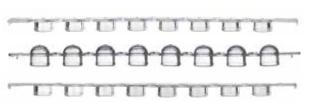
AB-0337, AB-0620

#### Ordering information

0.1 mL individual tubes TUC0010 UTW with flat caps Clear 900 TUC0011 UTW with flat caps White Pack size: 960 tubes

0.2 mL individual tubes AB-0620 Flat caps Clear AB-0622 Flat caps AB-0337 Domed caps Clear AB-0491 Domed caps Pack size: 1,000 tubes

	0.5 mL individual tubes	
Clear	AB-0350 Flat caps	Clear
Various colors	AB-0533 Flat caps	Various colors
Clear	AB-0535 Domed caps	Various colors
Various colors	Pack size: 1,000 tubes	





From top to bottom: AB-1182, AB-0266, AB-1183

#### 0.2 mL strip tubes

Individual tubes

• Compatible with standard 0.2 mL

or 0.5 mL thermal cycler blocks

• Ultrathin wall (UTW) and low profile

• Caps form a secure seal, yet are easy

• Also available in assorted colors

for fast PCR applications

to open and close

- 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

ordening information	
0.2 mL strip tubes	
AB-1182 Flat caps	Clear
AB-0496 Flat caps	Various colors
Pack size: 250 tube strips/cap	o strips
AB-0266 Domed caps	Clear
AB-0490 Domed caps	Various colors
Pack size: 250 tube strips/cap	o strips
AB-1183 Ultra Clear caps	Clear 碗
AB-1191 Ultra Clear caps	White (PCR)
Pack size: 120 tube strips/cap	o strips



Easys AB-2

DUDUUUUU 

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

AB-07 AB-07 AB-07

# VersiCap Mats-efficient and environmentally friendly sealing solution

Thermo Scientific<sup>™</sup> VersiCap<sup>™</sup> 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

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#### EasyStrip Plus tube strips

• Thermo Scientific<sup>™</sup> EasyStrip<sup>™</sup> 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 Pl	us tube strips	
AB-2000	Flat caps	Clear
AB-2005	Optical caps	Clear (PCR)
	i	

Pack size: 250 strips

#### 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

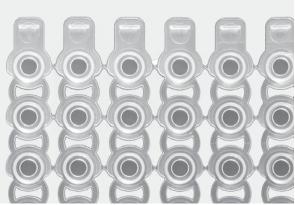
• Labelled A-H end tabs

#### Ordering information

#### Low-profile strip tubes

776	Flat caps	Clear
778	Flat caps	Various colors
775	Domed caps	Clear

AB-0777 Domed caps Various colors AB-1770 Ultra Clear caps Clear AB-1771 Ultra Clear caps White Pack size: 250 tube strips/cap strips



# 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<sup>™</sup> qPCR sealing options are optically clear to enable maximum and consistent signal transmission, critical for accurate gPCR results.

- Successfully tested
- × Not recommended

Cat. No. – Pack size – ding water bath) np. range storage	Flat cap strips <sup>2</sup> AB-0784 (8 capsper strip) 250 strips 250 strips • • • • • • • • • • • • • • • •	Domed <sup>2</sup> cap strips AB-0265 (8 caps per strip) 250 strips 250 strips * -20°C to 120°C	Ultra Clear qPCR cap strips AB-0866 (8 caps per strip) 120 strips • • • • • • • • • • • • • • • • • • •	Ultra Clear flat cap strips for UTW <sup>3</sup> plates TCS-1080 (8 caps per strip) 120 strips	Flat cap VersiCap Mats <sup>2</sup> AB-1815 (12 x 8 strips) 25 mats	Ultra Clear VersiCap Mats AB-1820 (12 x 8 strips) 25 mats • • • -20°C to	PCR foil seal AB-0626 100 sheets • *	PCR film seal AB-0558 100 sheets • *	Piko PCR/ qPCR film seal ASF-0020 400 sheets	ABsolut qPCR se AB-117 50 shee
Pack size –	(8 capsper strip) 250 strips • • • -20°C to 120°C • • •	(8 caps per strip) 250 strips • * -20°C to 120°C •	(8 caps per strip) 120 strips • • -20°C to 120°C	(8 caps per strip) 120 strips • -20°C to 120°C	(12 x 8 strips) 25 mats • * -20°C to	(12 x 8 strips) 25 mats	100 sheets	100 sheets	400 sheets	50 shee
ding water bath) np. range storage	• -20°C to 120°C •	● ★ -20°C to 120°C ●	● -20°C to 120°C	-20°C to 120°C	● ★ -20°C to	•	•	•	•	•
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storage	-20°C to 120°C •	−20°C to 120°C	–20°C to 120°C	–20°C to 120°C	–20°C to		×	×		•
storage	120°C	120°C	120°C	120°C		–20°C to			•	· · · · · · · · · · · · · · · · · · ·
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0%)	•	•	•	•	•	•	×	×	×	•
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on	•	•	•	•	•	•				
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tools	AB-0536	AB-0536	AB-0536				AB-1391	AB-1391	AB-1391	AB-13
es	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 pla
	10%) on adiation tools	10%) I (100%) on adiation tools AB-0536 8-strip PCR tubes 96-well PCR plates	100%)       •       •         ol (100%)       •       •         on       •       •         adiation       •       •         tools       AB-0536       AB-0536         ass       8-strip       PCR tubes         96-well       PCR plates       96-well         PCR plates       •       •	100%)       •       •       •         ol (100%)       •       •       •         on       •       •       •         adiation       •       •       •         tools       AB-0536       AB-0536       AB-0536         8-strip       8-strip       8-strip         PCR tubes       96-well       PCR tubes         96-well       PCR plates       PCR plates	AB-0536       AB-0536       AB-0536       AB-0536         AB-0536       AB-0536       AB-0536         Ses       AB-0536       AB-0536	AB-0536       AB-0536       AB-0536       AB-0536         AB-0536       AB-0536       AB-0536       AB-0536         AB-0536       AB-0536       AB-0536       AB-0536         SPL0240       PCR tubes       96-well       PCR plates         PCR plates       PCR plates       SPL0240       PCR tubes         96-well       PCR plates       PCR plates       SPL0241	00%)       •	AB-0536       AB-0536       AB-0536       AB-0536       AB-0536       AB-0536       AB-0536       AB-1391         Abstrip       B-strip       B-strip       B-strip       B-strip       B-strip       B-strip       B-strip       B-strip       AB-1391         AB-0536       AB-0536       AB-0536       AB-0536       B-strip       B-strip       B-strip       B-strip       AB-1391         AB-1391       AB-1391       AB-1391       AB-1391       AB-1391       AB-1391         AB-1391       B-strip       PCR tubes       96-well       PCR plates       PCR plates	AB-0536       AB-0536       AB-0536       AB-0536       AB-0536       AB-0536       AB-1391       AB-1391         Assesses       Sestrip       Sestrip	AB-0536       AB-0536

1. Does not include release liner.

2. Choose cap shape according to the instrument

manufacturer's recommendation.

3. Ultrathin wall.



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