



qPCR • RT-qPCR • PCR

For Life Science Research

- > qPCR/RT-qPCR Takyon™ kits
- > qPCR control assays
- > qPCR plastics
- > PCR kits and reagents
- > Custom formulations





RELIABLE TOOLS FOR AMPLIFICATION, DETECTION AND QUANTIFICATION OF **NUCLEIC ACIDS**

For over a decade Eurogentec has forged a strong reputation for developing trusted tools for qPCR and PCR applications. We bring you solutions, from individually performing reagents and consumables to ready-to-use kits.



Custom formulations for demanding projects



Highly consistent quality reagents



Maximum reproducibility of results

Assay dispensing services for process automation



Innovative dry format







qPCR/RT-qPCR/PCR								
qPC & RT-q	CR APCR PCR Custom Primer & Probes Plastics							
 ≥ p5 From PCR to qPCR ≥ p6 qPCR/RT-qPCR range 								
po po po po po	qPCR/RTqPCR Tange Takyon™ Kits for qPCR & RT-qPCR assays qPCR control assays							
⇒ p14	PCR range							
⇒ p15 ⇒ p20	Ready-to-use PCR Mixes PCR Reagents							
₽ p20	Custom services Custom formulations							
▶ p20 ▶ p20	0 Kit design and manufacturing							
> p21 > p21	Primers & Probes Primers & probes for qPCR assays							
<mark>∌</mark> p25	qPCR plastics							

Annexes

- **∋** p31 License statements
- **∍** p31 Trademarks/labels



Since its creation in 1983, the PCR has gained interest in molecular identification, sequencing and genetic engineering and is no more restricted to the amplification of low amount targets. However the PCR technology remains an end-point method which still requires a downstream processing after amplification (e.g.: a running gel) to detect and identify the amplified product.

qPCR/PCR Amplification Technologies

FROM PCR TO qPCR

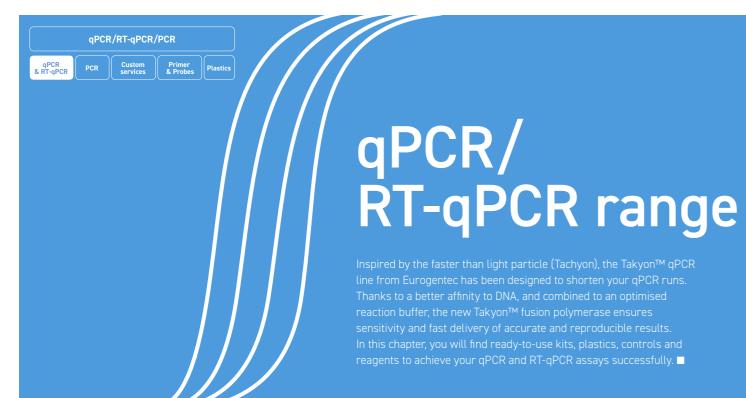
In contrast Real-time PCR technology relies on the signal intensity of a fluorescent reporter dye which increases proportionally with the sample amount. The reaction progress is then monitored in live in closed tubes, significantly reducing hands-on time and contamination risks.

Real-time PCR is frequently used in research and diagnostic assays to precisely detect or quantify the starting template copy number. Result accuracy is also requested for demanding applications such as gene expression and miRNA analysis, Single Nucleotide Polymorphism (SNP) genotyping... and is mainly linked to the reproducibility of the assay.

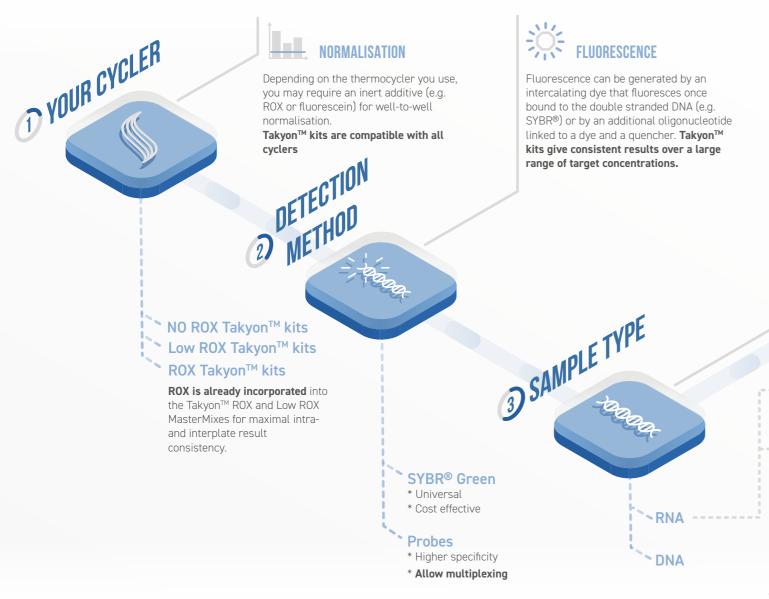
Different parameters such as the buffer composition or the efficacy of the polymerase may influence result quality and consistency. To ensure successful qPCR reactions, Eurogentec has developed various kit components including a proprietary Takyon™ fusion enzyme and performing reagents as well as efficient consumables you can rely on durably.

Eurogentee 5





■ TAKYON[™] KITS FOR qPCR & RT-qPCR ASSAYS



BENEFITS OF TAKYON™ KITS

Universal capabilities

Large dynamic range

Robust formulation

Small reaction volumes

Suitable for multiplex

REVERSE TRANSCRIPTION

If your starting material is RNA, you have to perform the Reverse Transcription (RT) to get cDNA material before starting your qPCR assay. This can be done in a One-Step or a Two-Step approach.



Two-step

One step¹

Reverse transcription and

Reverse transcription and

amplification in a closed tube

* Reduced contamination risk

* Highly **robust** performance

* Improved performance on

difficult virus with the additive.

separate reactions

* Simple process

reverse transcriptase

amplification are performed in

Core kit

- Individually optimised assay component
- * Cost effective
- * Maximum flexibility
- * Maximum assay performance through component concentration

optimisation Master Mix -----

- * Ready-to-use all-in-one
- qPCR reagent
- * Maximum reproducibility
- * Minimal contamination risk

1. Any Takyon[™] dTTP Master Mix for qPCR assays can easily be converted into a one-step RT-qPCR kit by using the Takyon[™] One-Step kit converter simply combining the two

qPCR/PCR Amplification Technologies

GOOD TO KNOW

To help you in your kit selection, a convenient online qPCR selector is available on http:// www.eurogentec.com/qpcr-selector.html. You can also evaluate a sample of any MasterMix for free and benefit from a 50% discount on your first kit order.

Visualisation

The inert blue dye allows you to visualise dispensing errors at a glance and avoid aberrant results before they occur. This is particularly true when using white plates, known for their superior performances.

Carry over prevention

* Mix containing dUTP and UNG,

* Any trace of DNA molecule from previous reaction containing dUTP will be removed by the action of the UNG.

Assay automation

The low viscosity HTP Takyon™ kits are perfectly suited for assay set-up automation.

Wet

- * 2 X concentrated
- * 5 X concentrated
- for volume optimization thanks to the high sensitivity of Takyon[™] kits

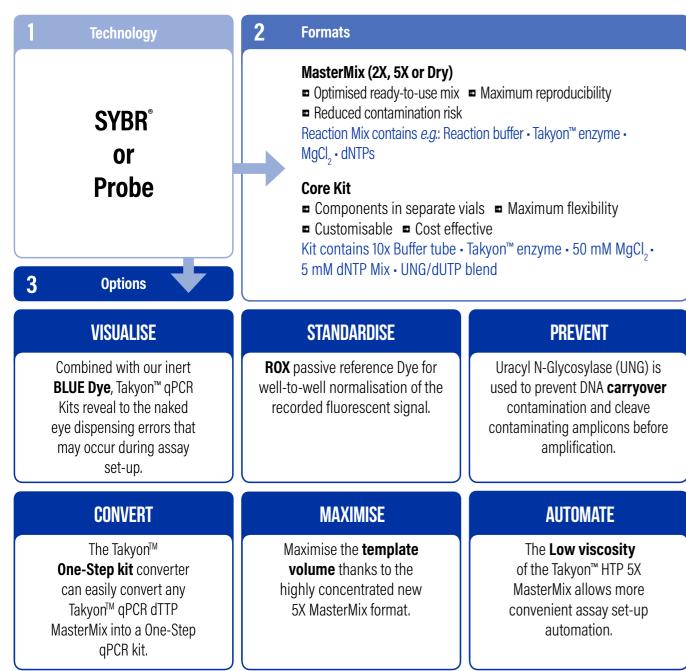
Dry

- * Stable at room temperature
- * Eco-friendly
- * Performant
- * Flexible





GLOBAL VIEW OF TAKYON KITS



TAKYON™ DRY

Besides the liquid format, Takyon™ Master-Mixes for Probe Assays are also available in a lyophilised format. Takyon™ Dry kits are recommended for on the field assays or for any other usages especially when cold chain becomes an issue.



TAKYON[™] DRY ADVANTAGES

Eco-friendly and cost-effective

Stable at room temperature

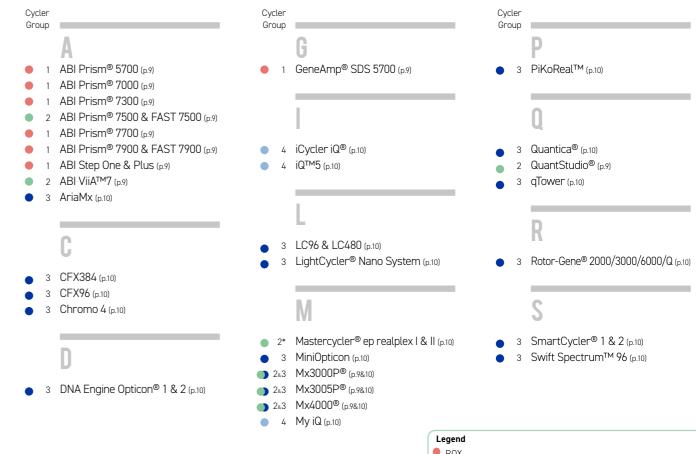
Performant

Takyon[™] Dry reagents including the new robust **Takyon[™] fusion enzyme**

Flexible

FIND THE PRODUCT MATCHING YOUR THERMOCYCLER

Some thermocyclers use fluorescent dyes to allow well-to-well normalisation. To meet any option, Eurogentec offers kits with passive references (ROX or fluorescein) already incorporated into the mix but also kits without passive reference**.



RT-qPCR kits

The Takyon[™] One-Step MasterMixes contain the new EuroscriptII RT which delivers highly robust performance on classical mRNAs, small RNA and viral RNAs.

The new additive improves significantly the amplification perfor-

		Product name	1 pack	5 packs	10 packs	# RXNs per single kit ¹	Format	Full carryover (dUTP+UNG)	Corresponding sample
		SYBR® Assays							
		For Two-Step Assays combine any kit mentionned above to our For One-Step Assays combine any dTTP Takyon™ 2X MasterNix v			1 (for 150 RXN MMix) or UF-	RTAD-D0701 (for 750	RXN MMix)		
		Probe Assays							
	×	Takyon™ Dry One-Step RT Probe MasterMix ROX	UFD-RPRT-C0101			150	MasterMix Dry		
•	ROX	Takyon™ One-Step ROX Probe 5X MasterMix dTTP	UF-RP5X-RT0501	UF-RP5X-RT0505	UF-RP5X-RT0510	1250	MasterMix 5x		UF-RP5X-RT0100
_	LOW ROX	Takyon™ Dry One-Step RT Probe MasterMix Low ROX	UFD-LPRT-C0101			150	MasterMix Dry		
	LOW	Takyon™ One-Step Low ROX Probe 5X MasterMix dTTP	UF-LP5X-RT0501	UF-LP5X-RT0505	UF-LP5X-RT0510	1250	MasterMix 5x		UF-LP5X-RT0100
• NO ROX	ŏ	Takyon™ Dry One-Step RT Probe MasterMix No ROX	UFD-NPRT-C0101			150	MasterMix Dry		
	NOF	Takyon™ One-Step No ROX Probe 5X MasterMix dTTP	UF-NP5X-RT0501	UF-NP5X-RT0505	UF-NP5X-RT0510	1250	MasterMix 5x		UF-LP5X-RT0100

¹ #RXNs is calculated for a final volume of 20 µl

The lexicon below guides you to the right ordering information in tables.

Legend
ROX
Low ROX
No ROX
Use Fluorescein with SYBR® MMix or No ROX with Probe MMix

mance on difficult virus types as well as on FFPE samples.

The 5X highly concentrated format allows more flexibility in template volume use especially in the context of small volume reaction.



	Product name	1 pack	5 packs	10 packs	# RXNs per single kit ¹	Format	full carryover (dUTP+UNG)	Corresponding sample
	SYBR® Assays							
×	Takyon™ ROX SYBR' MasterMix 2X Blue dTTP 7.5 mL	UF-RSMT-B0701	UF-RSMT-B0705	UF-RSMT-B0710	750	MasterMix 2x	2	UF-RSMT-B0100
ROX	Takyon™ ROX SYBR° 2X Core Kit Blue dTTP	UF-RSCT-B0201	UF-RSCT-B0205	UF-RSCT-B0200	1250	Core Kit	2	
LOW ROX	Takyon™ Low ROX SYBR' 2X MasterMix blue dTTP	UF-LSMT-B0701	UF-LSMT-B0705	UF-LSMT-B0710	750	MasterMix 2x	2	
XOX	Takyon™ No ROX SYBR® 2X MasterMix Blue dTTP 7.5 mL	UF-NSMT-B0701	UF-NSMT-B0705	UF-NSMT-B0710	750	MasterMix 2x	2	UF-NSMT-B0100
NO ROX	Takyon™ No ROX SYBR® Core Kit blue dTTP	UF-NSCT-B0201	UF-NSCT-B0205	UF-NSCT-B0210	1250	Core Kit	2	
FLUORESCEIN	Takyon™ SYBR® 2X MasterMix blue dTTP with fluorescein	UF-FSMT-B0701	UF-FSMT-B0705	UF-FSMT-B0710	750	MasterMix 2x	2	
FLUORI	Takyon™ No ROX SYBR® Core Kit blue dTTP 3	UF-NSCT-B0201	UF-NSCT-B0205	UF-NSCT-B0210	1250	Core Kit	2	
	Probe Assays							
	Takyon™ Dry ROX Probe MasterMix dTTP	UFD-RPMT-C0101			150	MasterMix Dry		
	Takyon™ ROX Probe 2X MasterMix UNG 7.5 mL	UF-RPMU-C0701	UF-RPMU-C0705	UF-RPMU-C0710	750	MasterMix 2x	~	UF-RPMU-C0100
ROX	Takyon™ ROX Probe 2X MasterMix dTTP Blue 7.5 mL	UF-RPMT-B0701	UF-RPMT-B0705	UF-RPMT-B0710	750	MasterMix 2x	2	UF-RPMT-B0100
8	Takyon™ ROX Probe 2X MasterMix dTTP 7.5 mL	UF-RPMT-C0701	UF-RPMT-C0705	UF-RPMT-C0710	750	MasterMix 2x	2	UF-RPMT-C0100
	Takyon™ ROX Probe 5X MasterMix dTTP 5 x 1 mL	UF-RP5X-C0501	UF-RP5X-C0505	UF-RP5X-C0510	1250	MasterMix 5x	2	UF-RP5X-C0100
	Takyon™ ROX Probe Core Kit dTTP	UF-RPCT-C0201	UF-RPCT-C0205	UF-RPCT-C0210	1250	Core Kit	2	
	Takyon™ Dry Probe MasterMix dTTP Low ROX	UFD-LPMT-C0101			150	MasterMix Dry		
	Takyon™ Low ROX Probe 2X MasterMix UNG 7.5 mL	UF-LPMU-C0701	UF-LPMU-C0705	UF-LPMU-C0710	750	MasterMix 2x	~	UF-LPMU-C0100
LOW ROX	Takyon™ Low ROX Probe 2X MasterMix dTTP Blue 75 mL	UF-LPMT-B0701	UF-LPMT-B0705	UF-LPMT-B0710	750	MasterMix 2x	2	UF-LPMT-B0100
Ξ	Takyon™ Low ROX Probe 2X MasterMix dTTP 7.5 mL	UF-LPMT-C0701	UF-LPMT-C0705	UF-LPMT-C0710	750	MasterMix 2X	2	UF-LPMT-C0100
	Takyon™ Low ROX Probe 5X MasterMix dTTP 5 x 1 mL	UF-LP5X-C0501	UF-LP5X-C0505	UF-LP5X-C0510	1250	MasterMix 5x	2	UF-RP5X-C0100
	Takyon™ Dry Probe MasterMix dTTP No ROX	UFD-NPMT-C0101			150	MasterMix Dry		
	Takyon™ No ROX Probe 2X MasterMix UNG 7.5 mL	UF-NPMU-C0701	UF-NPMU-C0705	UF-NPMU-C0710	750	MasterMix 2x	~	UF-NPMU-C0100
	Takyon™ No ROX Probe 2X MasterMix dTTP BLUE 7.5 mL	UF-NPMT-B0701	UF-NPMT-B0705	UF-NPMT-B0710	750	MasterMix 2x	2	UF-NPMT-B0100
Ň	Takyon™ No ROX Probe 2X MasterMix dTTP 7.5 mL	UF-NPMT-C0701	UF-NPMT-C0705	UF-NPMT-C0710	750	MasterMix 2x	2	UF-NPMT-C0100
NO ROX	Takyon™ No ROX Probe 5X MasterMix dTTP 5 x 1 mL	UF-NP5X-C0501	UF-NP5X-C0505	UF-NP5X-C0510	1250	MasterMix 5x	2	UF-NP5X-C0100
	Takyon™ No ROX Probe 5X HTP MasterMix dTTP 5 x 1 mL	UF-NP5X-CG0501	UF-NP5X-CG0505	UF-NP5X-CG0510	1250	MasterMix 5x	2	UF-NP5X-CG0100
	Takyon™ No ROX Probe Core Kit dTTP	UF-NPCT-C0701	UF-NPCT-C0705	UF-NPCT-C0710	1250	Core Kit	2	
	Takyon™ No ROX Probe Core Kit dTTP blue	UF-NPCT-B0701	UF-NPCT-B0705	UF-NPCT-B0710	1250	Core Kit	2	

² Optional: when dUTP/UNG (RT-UTPUNG-020) additive is used. Component included in Core Kits.

³ Combine with fluorescein additive (RT-FLUO-ADD).

Note : Easily find the best suited kit for your qPCR platform and application. Use our qPCR selector: www.eurogentec.com/qpcr-selector.html



Additional options





REVERSE TRANSCRIPTION

When working with RNA samples, a reverse transcription is required prior the qPCR reaction. One-step Takyon™ kits containing reverse transcriptase are available for all cyclers. In addition, you can convert any dTTP qPCR Takyon[™] kit into a:

One-step RT-qPCR kit: Use Takyon™ One-Step Takyon™ core kits contain dUTP and UNG. Kit converter with any dTTP Takyon™ 2X Master Mix to make reverse transcription and qPCR in the same tube.

Two-step RT-qPCR kit: Use the Reverse Transcriptase Core Kit prior the qPCR assay to make a two steps reactions with any qPCR kit.



Description	References	Quantity
Takyon™ One-Step Kit converter 20 µl	UF-RTAD-D0101 UF-RTAD-D0701 UF-RTAD-D0705 UF-RTAD-D0710	1001040
Reverse Transcriptase Core Kit 300	RT-RTCK-03 05-RTCK-03 10-RTCK-03	300 RXNs 5x 300 RXNs 10x 300 RXNs
Reverse Transcriptase Core Kit 500	RT-RTCK-05 05-RTCK-05 10-RTCK-05	500 RXNs 5x 500 RXNs 10x 500 RXNs
dUTP/UNG Additive for dTTP kit conversion	RT-UTPUNG-005	40 µL (150 RXNs)
dUTP/UNG Additive for dTTP kit conversion	RT-UTPUNG-020 05-UTPUNG-020 10-UTPUNG-020	200 µL (750 RXNs) 5x 200 µL (5x 750 RXNs) 10x 200 µL (10x 750 RXNs)

qPCR/PCR Amplification Technologies



PASSIVE REFERENCE

Passive reference is required for well-to-well normalisation on some thermocyclers. Takyon[™] kits with passive reference (ROX or fluorescein) already incorporated into the mix are available. ROX and Fluorescein additives are available as stand-alone reagents.

PREVENT CONTAMINATION

Using a mix containing dUTP and UNG brings security to the assay. Indeed any trace of DNA molecule from previous reaction containing dUTP will be removed by the action of the Uracyl-N-Glycosylase (UNG).

Takyon™ 2X Master Mixes for probe assays are available with dUTP/UNG already incorporated.

Otherwise, dUTP/UNG additive can be used to convert any dTTP kit (e.g. SYBR® kit).

ORDERING INFORMATION

Description	References	Quantity
dUTP/UNG Additive for 5X MMx kit conversion	RT-UTPUNG-033	1250 rxn
Fluorescein additive 1 mM (for My iQ / i-Cycler iQ" / iQ"5)	RT-FLUO-ADD	1 mL
ROX Passive Reference	RT-PARE-03 05-PARE-03 10-PARE-03 RT-PARE-100	300 µl 5x 300 µl 10x 300 µl 10 mL
UNG (Uracil-N-Glycosylase)	RT-0610-03	300 u
UNG (Uracil-N-Glycosylase)	RT-0610-15	1500 u
Takyon™ Blue Additive	UF-BLUE-ADD	3750 RXN



■ qPCRCONTROL ASSAYS

gPCR is the method of choice for quantitative gene expression studies. However gPCR assays are prone to inhibition by various substances found in many samples (clinical, soil, plant...).

Internal Positive Controls (IPC) allow you to detect inhibited amplification reactions

due to the carryover of reagents used for the isolation of nucleic acids. Other causes of false-negative results include target nucleic acid degradation, sample processing errors and thermocycler malfunction.

Housekeeping controls allow for gene expression studies. Reliable determination of the gene expression level across samples requires efficient normalisation of the recorded signals. For that purpose Eurogentec has developed a limited set of optimised and validated housekeeping controls

Housekeeping internal controls

The accurate and reliable determination of gene expression is commonly achieved by using well characterised internal genes as reference.

Accordingly, Eurogentec has functionally validated each of its controls. Each set has been optimised to a PCR efficiency of 95-100% when combined with a gPCR kit from Eurogentec.

The closer the level of target expression is to the expression of the internal control gene, the more accurate the determination will be. Therefore the selected control gene should match your target gene expression depending on the cell type or tissue used. The table here below give you an idea of the expression levels of a selection of human housekeeping genes.

AI SO AVAII ARI F

You can request your custom design for any other selected gene by sending the gene details to:scientific.support@eurogentec.com

FEATURES



The selected control gene should match your target gene expression depending on

> 35 0 45 Cycle

AL AL AR 70 72 76 74 78 80 82 86 84 88 90

Amplification plot (a), standard curve (b) and melt curve (c) of

human &-actin control.

the cell type or tissue used.

ORDERING INFORMATION

Human Gene	Relative expression level	cDNA	gDNA	Organism	Amplicon length	#RXN (50μL)	Reference
18S rRNA	Very high	~	~	H, Ra,M, Rb	121 bp	250	RT-CKFT-18S RT-CKYD-18S
28S rRNA	Very high	~	~	H, M	87 bp	250	RT-CKYD-28S
ß-actin	High	~	~	Н	91 bp	250	RT-CKYD-ACTB
GAPDH	High	~		Н	86 bp	250	RT-CKYD-GAPD
Ubiquitin C	High	•	~	Н	76 bp	250	RT-CKYD-UBC
ß-2-microglobulin	High	•	~	Н	112 bp	250	RT-CKYD-B2M
Phospholipase A2	Medium	•		Н	93 bp	250	RT-CKYD-YWHAZ
RPL13a	Medium	~	~	Н	92 bp	250	RT-CKYD-RPL13A
SDHA	Medium	~		Н	118 bp	250	RT-CKYD-SDHA
HMBS	Medium	~		Н	119 bp	250	RT-CKYD-HMBS
HPRT1	Low	~		Н	100 bp	250	RT-CKYD-HPRT1
TBP	Low	~		Н	145 bp	250	RT-CKYD-TBP

Relative expression levels of a selection of human housekeeping genes H: Human Ra: Rat M: Mouse Rb: Rabbit

Positive Controls

Eurogentec's Positive Controls (PC) are optimised Tagman® assays designed to distinguish true target negatives from false negatives.

The Sample Processing Control (SPC)

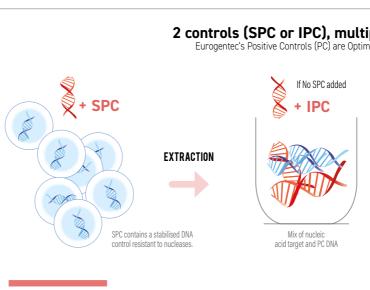
is spiked into samples before extraction to monitor poor extraction yield, PCR

parameters.

inhibition or a reaction set-up/cycling error.

	ORDERI	NG INFORMATION
	Product	#RXN (50µL)
	Sample Processing Control, YY-TAMRA	200
SPC	Sample Processing Control, 11-IAMINA	1000
S	Comple Pressesing Control V/ DUO 18	200
	Sample Processing Control, YY-BHQ-1°	1000
	Universal Exogenous gPCR Positive Control, YY-TAMRA	200
2	Universal exogenous qrck Positive control, 11-IAMINA	1000
≞	Universal Exogenous gPCR Positive Control, YY-BHQ-1°	200
	UIIIVEISAI EXUYEIIUUS YFUN FUSILIVE UUIILIUI, YY-BHU-I	1000

METHOD



APPLICATIONS



lificatio

Target Positive

No conclusion on target presence*

inhibition, incorrect pipetting or cycling

The Internal Positive Control (IPC) is

spiked into samples before gPCR assay to confirm the absence of target sequence,

BENEFITS

Specific

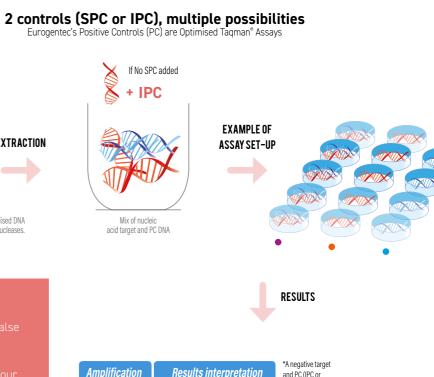
Sensitive

ompatible with low copy templates

Designed for multiplex assays

Reference

RT-SPCY-T02 RT-SPCY-T10 RT-SPCY-B02 RT-SPCY-B12 RT-IPCY-T02 RT-IPCY-T10 RT-IPCY-B02 RT-IPCY-B10



cycling protocol or an

extraction failure (in

case of SPC use).

and PC (IPC or • qPCR Assay + Control: SPC) amplification Sample + Primers + Probe (FAM) PC DNA + Primers + Probe (VIC[®]) suggests the presence of inhibitors No Template Control: a wrong PCR set-up. No Sample + Primers + Probe (FAM) PC DNA + Primers + Probe (VIC[®]) a defective mix, an incorrect thermal Target Negative (no target sequence)

 No Positive Control Sample + Primers + Probe (FAM) No PC DNA + Primers + Probe (VIC°)

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PCR range

The wide variety of PCR applications requires occasional adjustments to the PCR process. Optimising PCR for your can tailor to your need. 🗖

■ READY TO USE PCR MIXES

qPCR/RT-qPCR/PCR

Custom Primer Plastics services & Probes Plastics

qPCR & RT-qPCR

PCR

To gain time, prevent contamination risk by multiple pipettings and increase reproducibility of your PCR reactions, we recommend the use of a ready-to-use PCR Mix. 2 x concentrated PCR mixes are convenient premixed solutions that include in a single tube all common reagents needed for PCR. Simply dilute twice the PCR mix with template, primers and water to start your reaction.

Four PCR mixes are available:

- GoldStar[®] Mix is composed of GoldStar[®] Taq polymerase, dNTPs, MgCl₂ and buffer

Red'y'Gold Mix has the same composition than the GoldStar® Mix except that the loading buffer is **coloured with a red** loading dye allowing the direct loading of the amplicons on a gel.

HotGoldStar Mix is the HotStart version of the GoldStar® Mix, containing a HotGold-Star *Taq* polymerase.

Red'y'Star Mix has a composition similar to the HotGoldStar® Mix with a **buffer** coloured with a red loading dye allowing the direct loading of the amplicons on a gel.

BENEFITS

₽ PCR REAGENTS

dNTPS

dNTPs are available as convenient 100 mM sets or in ready-to-use mixes. They offer reliable and reproducible performance in any enzymatic reaction, including PCR and reverse transcription.

dNTPs are enzymatically produced from nucleotide monophosphates by a process of phosphorylation. This process uses highly specific enzymatic systems, which eliminate impurities and PCR inhibitors such as modified nucleotides and

pyrophosphates. dNTPs are purified with preparative HPLC and are at least 99 % pure. They are supplied ready-to-use as Lithium salts in water at pH 7.0.

Lithium salts have greater resistance to repeated freezing and thawing cycles than sodium salts dNTPs. and remain sterile over the entire shelf-life due to the bacteriostatic activity of lithium towards various microorganisms.



Polymerases

PCR yield and result consistency are mainly related to the reaction components quality and efficiency. High performance DNA polymerases are recommended to reduce background and to increase reproducibility. Accordingly, all our enzymes are tested extensively for the absence of nicking and priming activities, exonucleases and non-specific endonucleases.

Each polymerase has its own benefit. The choice of the polymerase usually depends on the template and the downstream application:

- For low copy templates, a high

specificity polymerase such as SilverStar DNA polymerase is recommended.

- For in vitro diagnostic and demanding research applications, ultra-pure polymerases are usually requested. Our Diamond Taq® polymerase family is GMP compliant and is perfectly suited for this kind of application.

- For highest specificity, choose a HotStart DNA polymerase. This will considerably increase the yield of the reaction.

To help you in your enzyme selection, please refer to the table on the next page.



ORDERING INFORMATION

Description	Quantity (units)	Product Numbers
GoldStar® Mix	5 x 1 mL	PK-0064-02
Red'y'Gold Mix	5 x 1 mL	PK-0064-02R
HotGoldStar Mix	5 x 1 mL	PK-0073-02
Red'y'Star Mix	5 x 1 mL	PK-0073-02R



ADDITIONAL INFORMATION

Package Content 5 x 1 mL of PCR Mix comprising of *Taq*® polymerase (1 u/25µl), dNTPs (400 µM), MgCl₂ (3 mM) and buffer

cGMP Mixes

Mixes prepared under ISO 13485 compliant processes (including enzymes of the Diamond Tag[®] family) are available on request at diagnostic. aq@eurogentec.com

BENEFITS





ORDERING INFORMATION

Description	Quantity	#Ref					
dNTP Mix 1 x 20 µmoles	1 x 1 ml	NU-0010-10					
dNTP Mix 5 x 20 µmoles	5 x 1 ml	NU-0010-50					
dNTP Mix 10 x 20 µmoles	10 x 1 ml	NU-0010-100					
dNTP Set 4 x 25 µmoles	4 x 250 µl	NU-0020-50					
PACKAGE CONTENT							

dNTP mix contains all four nucleotides (dATP, dCTP, dGTP, dTTP) in a premixed solution, ready for immediate use (5 mM each),

dNTP set is delivered as a pack of four vials, each containing 100 mM of one of the four nucleotides (dATP, dCTP, dGTP, dTTP).





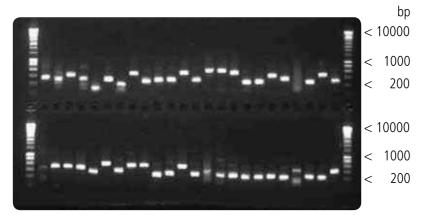
	Free Sample	PCR	qPCR	Yield	Sensitivity Low copy template	Fidelity	Specificity	Visual recognition	Difficult template (GC & AT rich)	Long template	3' end
Regular Polymerases											
Diamond Tag®	TAQ-1021-100	***	*	++	++	++	++		*	**	3' A
Red Diamond Taq®	TAQ-1041-100	***	*	++	++	++	++	~	*	**	3' A
SilverStar	ME-0074-SA	***	*	+++	+++	+	+		*	**	3' A
Hotstart Polymerases											
Hot Diamond Taq®	TAQ-1033-100	***	**	+++	+++	++	+++		***	***	3' A
HGS Diamond Taq *	TAQ-1011-100	***	***	+++	+++	++	+++		**	**	3' A

* Weakly recommended ** Recommended *** Highly recommended + Low ++ Medium +++ High

SILVERSTAR DNA POLYMERASE

SilverStar is a high-performance thermostable recombinant DNA polymerase, isolated from *Thermus aquaticus*. It is an extremely **robust Taq DNA** polymerase that does not require optimisation and gives high yields with minimal background consistently from one reaction to another. It is a **highly** active enzyme that produces excellent results across a wide range of applications such as DNA Arrays.

The SilverStar has a $5' \rightarrow 3'$ exonuclease activity and also the extendase activity allowing TA cloning. The enzyme lacks the $3' \rightarrow 5'$ exonuclease activity.



In DNA Array application, 50,000 ORFs from more than 10 different organisms have been successfully amplified.

	ORDERING INFORMATION	
Description	Quantity (units)	Product Numbers
SilverStar DNA polymerase	500 U	ME-0074-05

BENEFITS

ADDITIONAL INFORMATION

Package Content SilverStar DNA polymerase (5 U/µl) 10x reaction buffer 50 mM MqCl

Storage & Shipping conditions Shipped and stored at -20°C

Quality

The enzyme is specifically purified to remove traces of DNA that could interfere with some reactions and is free from all non-specific endonucleases, nickases and exonucleases.

DIAMOND TAO® FAMILY

Diamond Tag® family enzymes are highly thermostable polymerases produced and purified from recombinant Escherichia coli bacteria containing the Thermus aquaticus DNA polymerase gene.

Diamond *Tag*[®] enzymes have been manufactured under fully compliant **cGMP** conditions

to ensure lot-to-lot consistency and ultralow bioburden. They are purified in class 10 000 clean-room (ISO 7 with <100 cfu/m³) and filled and finished in a class 100 laminar flow hood (ISO 5 with <1 cfu/ m³). Final product is released by our Quality Assurance Department with a formal Certificate of Analysis. Full batch

Parameters	Specifications
Appearance ²	Clear, colourless solution ¹
Identity (SDS-PAGE)	MW approx. 95 kDa
Volume activity	5 U/µl
Purity (SDS-PAGE)	Over 98 %
Performance test: PCR -IDNA ²	0.5 kb fragment positive down to 5 pg
Performance test: PCR - 18 S DNA ²	0.1 kb fragment positive down to 10 pg
Ribonucleases (up to 10 U, 1 h, 37 °C)	Not detectable
Endonucleases (up to 30 U, 16 h, 65 $^\circ \rm C)$	Not detectable
Exonucleases (up to 30 U, 16 h, 65 °C)	Not detectable
Nicking activity (up to 30 U, 16 h, 65 °C)	Not detectable
E. coli residual DNA	Over 1 fg / <i>Taq</i> Unit
Bioburden ²	≤ 10 CFU/ml
Stability ²	36 months (at -20 °C) from date of n
Animal-derived additives ²	None
¹ Red Solution for Red Diamond <i>Taq</i> * ² Also for buffer & MgCl ₂	



ORDERING INFORMATION

Description	Quantity (units)	Product Numb
Diamond Taq®DNA Polymerase	1000 U 5000 U 25000 U	TAQ-1021-1000 TAQ-1021-5000 TAQ-1021-25000-
Red Diamond Taq®DNA Polymerase	1000 U 5000 U 25000 U	TAQ-1041-1000 TAQ-1041-5000 TAQ-1041-25000-
HGS Diamond Taq®DNA Polymerase	1000 U 5000 U 25000 U	TAQ-1011-1000+ TAQ-1011-5000+ TAQ-1011-25000
Hot Diamond Taq®DNA Polymerase	1000 U 5000 U 25000 U	TAQ-1033-1000- TAQ-1033-5000 TAQ-1033-25000

records are maintained and can be reviewed during customer or regulatory audits.

The expressed enzyme shows very good fidelity and catalyses 5'→3' synthesis of DNA with no detectable 3'→5' exonuclease activity. The enzyme has the "extendase" activity allowing TA cloning.

manufacture bers

BENEFITS

ADDITIONAL SPECIFICATIONS

PARAMETERS For HGS Diamond Tag® HotStart activity No detectable amplification without 95 °C activation

For Hot Diamond Taq® Performance test PCR-Numb DNA 0.3 kb fragment positive down to 10 pg

ADDITIONAL INFORMATION

Package Content

- 5 U/µL enzyme
- 10X reaction buffer
- 25 mM MgCl₂ solution

Diamond *Taq*[®] DNA polymerases can be custom-produced on request with an activity from 5 to 5000 U/µL and a glycerol level from <1 to 50%.

Documentation

Enzymes are provided with specification sheet & Certificate of Analysis with the QC data released by a QC authorised person and based on review of the complete batch record.

Order & Shipping conditions

Enzymes are shipped at room temperature (except for Hot Diamond *Taq*[®], on dry ice) with full traceability from production to storage of the product.

Diamond *Taq*[®] DNA polymerases are also available under IVD grade. In that case the shipping is made on dry ice with a full traceability from the production to the shipment of the product. The tracking number is sent to the customer the day of the shipment.

For more information about the IVD grade polymerases, please contact us at ivd-taq@eurogentec.com

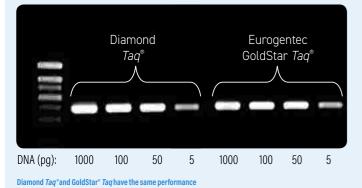
Samples are available on request.



Regular Polymerases: Diamond Tag® and Red Diamond Tag®

For demanding research applications, Diamond Tag[®] DNA **polymerase** is recommended.

To ease visualisation, we recommend the Red Diamond Tag® **DNA polymerase**, similar to the Diamond *Tag*[®] DNA polymerase

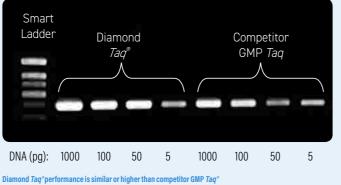


pg) of a 0.5 kb PCR template (λ DNA). PCR products were analysed by gel electrophoresis.

Diamond Tag[®] was evaluated ag

HGS Diamond Tag®is a HotStart

except that the storage buffer contains an **inert red dye**. The red dye does not influence the PCR reaction and has no effect on automated or manual sequencing, restriction digestions or other downstream applications. Removing the dye can be easily accomplished using any standard purification method.

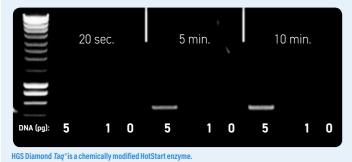


Diamond Taq⁺was evaluated against competitor GMP Taq⁺for its ability to amplify different amounts (from 5 to 1000 pg) of a 0.5 kb PCR template (λ , DNA). PCR products were analysed by gel electrophoresis.

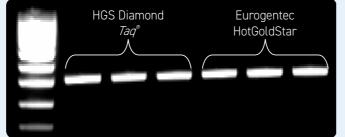
HotStart Polymerases: HGS Diamond Tag® and Hot Diamond Tag®

st Eurogentec's GoldStar Tag® for its ability to amplify different amounts (from 5 to 1000

Initially lacking all activity below 74 °C HGS Diamond Taq® DNA polymerase is a chemically modified HotStart DNA polymerase. It requires a thermal activation of 10 minutes at 95 °C to reach maximal activity. This avoids non-specific priming at low temperature during the PCR set-up. HGS Diamond Tag®



is more heat-stable than commonly used *Taq*[®] DNA polymerase. DNA fragments as long as 2 kb can be efficiently amplified. HGS Diamond *Tag*[®] DNA polymerase provides efficient amplification of specific products without amplifying non-specific products or primer dimers.



HGS Diamond Taq °and HotGoldStar° Taq performances are similar. HGS Diamond *Taq** was evaluated against Eurogentec's HotGoldStar (HGS) for its ability to amplify in triplicate 5 pg of a 0.5 kb PCR template (λ DNA). PCR products were analysed by gel electrophoresis.

Preventing non-specific polymerisation, Hot Diamond Tag® DNA polymerase is a HotStart enzyme showing no amplification at room temperature and giving very high yield of specific product. HotStart characteristics are accomplished through a proprietary agent, which is neither a chemical modification nor a blocking antibody; this prevents primer-dimer formation and increases the

very high yield of specific product after a minimum of 10 minutes of enzyme activation at 95 °C.



Performance test on a difficult template:

Hot Diamond Taq®(HDT) & Diamond Taq®(DT) were evaluated against HotStart competitors (C1, 2 & 4 - Chemical modification; C3 - Antibody) for their ability to amplify a difficult PCR template (gDNA NUMB - 306b). PCR products were analysed by gel electrophoresis.

PCR yield of specific products. The enzyme needs a very short activation time (100 % activated during the first PCR cycle) and is compatible with all existing protocols (from 20 sec. to 15 min. at 95 °C). Hot Diamond Tag® DNA polymerase is recommended for



Performance test on a 72 % GC rich template:

long & difficult template amplification.

Hot Diamond Taa"(HDT) & Diamond Taa"(DT) were evaluated against HotStart competitors (C1.2 & 4 - Chemical modification; C3 - Antibody) for their ability to amplify a GC rich PCR template (SC03449 - 152b). PCR products were analysed by ael electrophoresis.



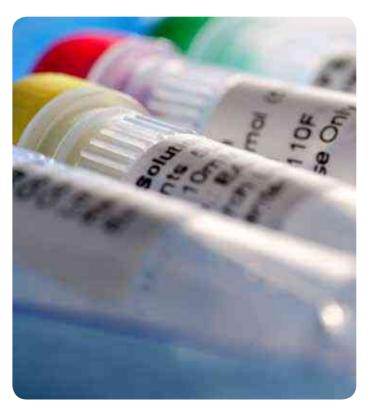
Reverse transcriptase

MU-MLV REVERSE TRANSCRIPTASE

Mu-MLV is a reverse transcriptase purified from a recombinant overexpressing clone of *E. coli* that carries the reverse transcriptase gene

from Moloney Murine Leukemia Virus. The enzyme synthesises a complementary cDNA strand from a single stranded RNA or DNA

template. Mu-MLV lacks the $3' \rightarrow 5'$ exonuclease activity. It is recommended to use 10 U/µg RNA for optimum reverse transcription.





Description	Quantity (units)	Product Numbers
Mu-MLV reverse transcriptase	40000 U	ME-0125-400

RENEFITS		
RENEELLS		те
	REN	

ADDITIONAL INFORMATION

Package Content Mu-MLV reverse transcriptase (200 U/µl) 5x cDNA buffer: 250 mM Tris-HCl (pH 8.3), 375 mM KCl, 50 mM DTT, 15 mM MgCl

Storage & Shipping conditions Shipped and Stored at -20°C

Quality The enzyme is tested for the absence of endonucleases and RNases





Custom services

Primer Plas

Each project is different and a unique qPCR solution suiting all requirements does not exist. Eurogentec affords the flexibility to adapt its offer to your specific needs.

■ CUSTOM FORMULATIONS

qPCR/RT-qPCR/PCR

qPCR & RT-qPCR

Because setting up a qPCR or a PCR assay can be a real challenge requiring an optimised Mix composition, Eurogentec offers you the possibility to produce vour own Mix.

Combine the following advantages in a single product:

- · Maximised sensitivity and specificity of your custom validated Mix
- Absolute reproducibility with the benefits of a unique dedicated batch
- Minimal contamination risks and pipetting errors with ready-to-use Mix
- Consignment and scheduled deliveries
- Various packaging (tube, plate, bottles...)
- Inclusion of external components (enzymes, oligonucleotides...)

Please contact us to develop your own formulation: custom.qpcr@eurogentec.com



■ ASSAY DISPENSING SERVICE

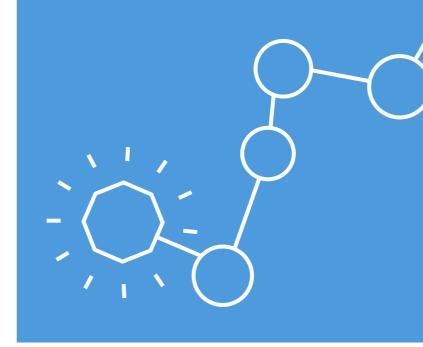
In its constant search for simple, affordable and innovative solutions for the Life Science community, Eurogentec has developed a dispensing service that brings all advantages of automation within everyone's reach. Ease your workflow by automating your routine assays to perfection, with full design and format flexibility. Combine all required reagents, in any type of formulation, support and packaging, to produce your Ready & Easyto-Use solution, saving set-up time, minimising user input and skill level, as well as reagent wastage and hidden costs. The process offers a very high reliability, reproducibility and accuracy. Our dispensing service is in line with ISO15189 quality standards and is fully scalable, taking care of the preparation of any type of routine assays to full kitting solutions.

► KIT DESIGN AND MANUFACTURING

A unique offer allowing rapid RUO launch to full kit design and manufacturing, for reduced time-to-market.

We take in charge the preparation of your kits and provide them labelled with your own brand. We offer a flexible production with custom fill & finish release options to fit with your own product lines.

Contact for dispensing & kit design manufaturing: dispensing@eurogentec.com



PRIMERS & PROBES FOR qPCR ASSAYS **Primers**

Primers are used to amplify DNA fragment by PCR/gPCR process. Primer sequences need to be chosen to uniquely select for a region of DNA, avoiding the possibility of mishybridisation to a similar unwanted sequence nearby as well as region harbouring highly stable secondary structures.

GOOD TO KNOW

For optimal results in multiplex assays or using SYBR® Green, we recommend RP-cartridge*Gold purification for your primer.

Probes

A probe is a nucleic acid fragment labelled with an internally quenched fluorophore whose fluorescence is restored when hybridised to its target sequence or when physically separated from the quencher due to nuclease activity. Eurogentec offers various probe types (Double Dye, Molecular Beacons, MGB...) with a wide range of fluorophore and quencher pairs covering all the qPCR channels. The use of probes increases the specificity of the assay and allows multiplexing. Please refer to the compatibility table p24. to select the dye adapted to your thermocycler.

Eurogentec provides high quality MGB probes perfectly suited for patient management** and available in IVD grade upon request. We provide a complete offer with more than 15 dyes covering all qPCR channels.

Primers & Probes

qPCR & RT-qPCR

PROBES SPECIFICATIONS

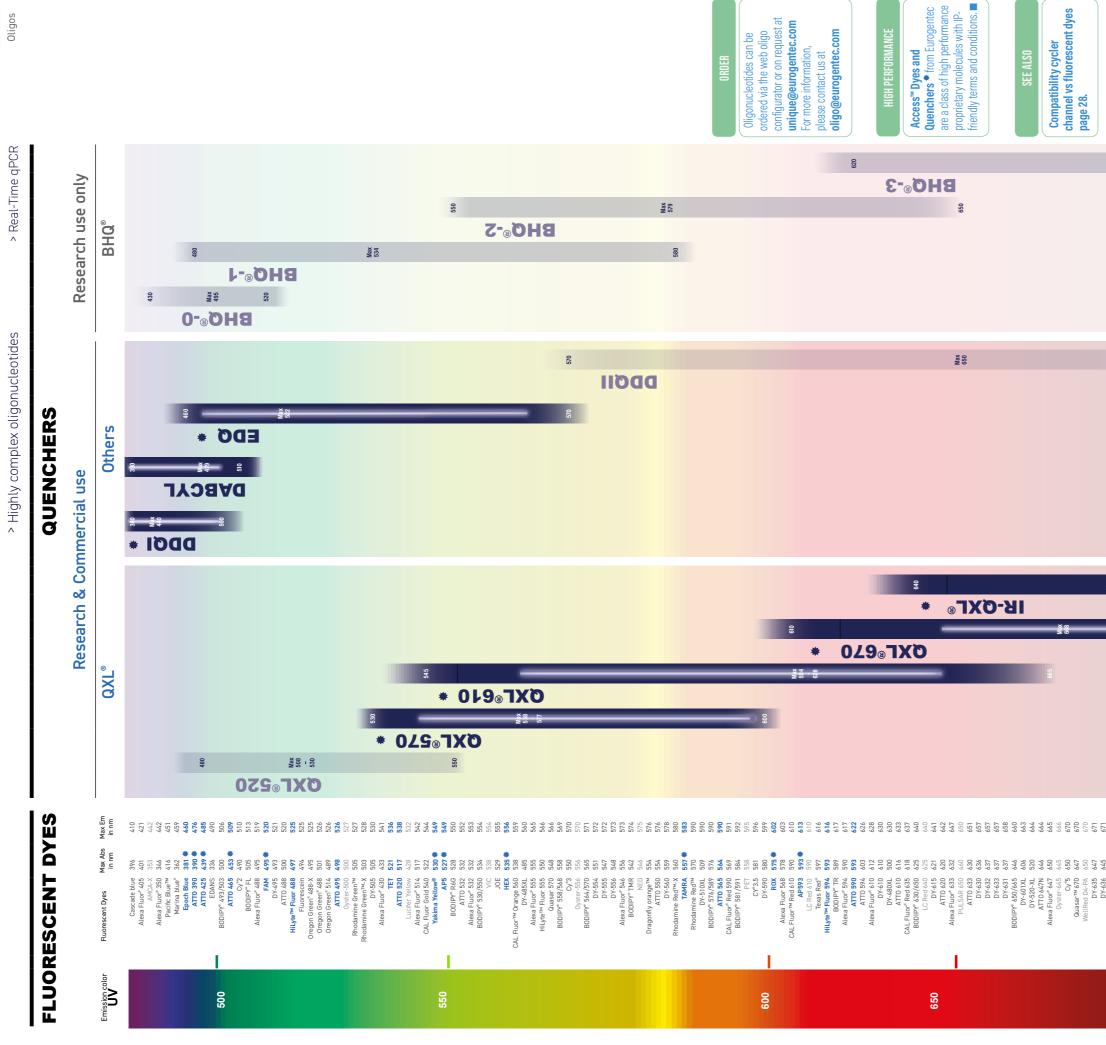
- Length: From 10 to 50 bases
- Synthesis scale: 10 nmol 40 nmol 200 nmol
- Backbone: DNA, LNA®, 2'O-Me RNA and phosphodiester linkage
- Modifications: 5': 6-FAM, HEX, Cy3®, TET , Cy5®, AP5, YY...
- 3': TAMRA, DABCYL, BHQ™, DDQ, MGB-EDQ,..
- Purifications: RP-HPLC or Dual HPLC
- Quality Control: MALDI-TOF MS and analytical HPLC
- Format: Dried
- Packaging: 2 mL tube
- **Documentation:** Technical data sheet
- Probe Design: Available on request
- Shipping: At room temperature



^{*} Double-Dye, Molecular Beacon or MGB Probe. Each primer must be 15-30 DNA bases, unmodified and RP-Cartridge purified. The synthesis scale of the primers must be in accordance with the probe quantity (refer to www.eurogentec.com for details). Offer Valid only for orders placed on the Eurogentec e-commerce platform EOS. General conditions of sale will be applied. ** Restriction of use in the following coutries: US, CA, AU, CH, FR, UK, DE, IT, JP, SE, ES, CN. In these countries MGB probes must only be used for patient management. Use is free of limitation in other countries. End users are covered under Eurogentec's conveyed license for patient management



DYES & QUENCHERS COMPATIBILITY TABLE



qPCR/PCR Amplification Technologies

			0	IPC	(/P(-K	AIN	pu	IICa	alic	m	iec	111)	υιΟ	gies
IISAGE	In bold blue: Dyes & Quenchers	for commercial & research use In black: Dyes & Quenchers for	research use only (RUO) In light grey: Not available at	Eurogentec Dark blue bands represent	the indicative quenching range of recommended quenchers.	Gray bands represent the	indicative quenching range of	Purple bars represent the	optimal recommended quenching	range.	* Access Dyes & Quenchers	All wavelength values are in nm.		Note: Spectral properties of a dye or a quencher may vary when coupled to another molecule	
	Max 680					ł	/30								
	680														
Max 772	-	_	_	_	_								_		850
						-									
	_				i	9									
671 672 674 674	678 680 690	694 697 698	699 699 702	705 706 708	709	723	730 731 751	758	092 607	770	775 776	776 778	779 793	800 800	810 812
			674 674 679				70% 70%		736				751 771		
DY-636 DY-647P1 DY-650 Oyster-656	Alexa Fluor [®] 660 ATTO 655 Alexa Fluor [®] 660	Cy [°] 5.5 IRDye 700 ATTO 680	DY-675 DY-676 Aleva Elitor® 680	Quasar TM 705 WellRED D3-PA	DY-680 LC Red 705	ALLO 700 Alexa Fluor [®] 700	DY-700 DY-701	DY-730	DY-731	WellRED D2-PA	Alexa Fluor [®] 750 Cy [®] 7	DY-750 HiLyte TM Fluor 750	DY-751 DY-776	DY-781 DY-782	DY-780 IRDye 800
	e e	_	Aleva	Qua	1	Alexa F				WellR	Alexa F	HiLyteTM			_
Ū	Alex														
	Alex		I									Ť			
	Ale	0	I												
	Alex	700	I									800			

COMPATIBILITY CYCLER CHANNELS VS FLUORESCENT DYES

Thermocycler	Blue channel	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7
GeneAmp [°] SDS 5700	·	FAM	AP5/YY/JOE/VIC/TET*	DFO*/TAMRA/NED	·			ı
ABI Prism*SDS 7000		FAM	AP5/YY/JOE/VIC/TET*	DFO*/TAMRA/NED	ROX			
ABI Prism SDS 7700		FAM	AP5/YY/JOE/VIC/TET*	DFO*/TAMRA/NED	ROX			ı
ABI Prism" SDS 7900 HT	ı	FAM	AP5/YY/JOE/VIC/TET*	DFO*/TAMRA/NED	ROX	I		ı
ABI Prism" SDS 7300	I	FAM	AP5/YY/JOE/VIC/TET*	DFO*/TAMRA/NED	ROX	I		ı
ABI Prism" SDS 7500	ı	FAM	AP5/YY*/HEX*/JOE/VIC/TET*	DFO*/TAMRA/Cy`3/NED	ROX/TR	Cy ⁵ /HL647	ı	ı
Quantstudio" 3, 5, 6, 7	ı	FAM	AP5/YY*/HEX*/JOE/VIC/TET*	DFO*/TAMRA/Cy`3/NED	ROX/TR	Cy ⁵ /HL647	ı	ı
Quantstudio" 7	ı	FAM	AP5/YY*/HEX*/JOE/VIC/TET*	DFO*/TAMRA/Cy`3/NED	ROX/TR	Cy ⁵ /HL647	Cy ⁵⁵⁵ /ATT0 700	ı
ViiA7	ı	FAM	AP5/YY*/HEX*/JOE/VIC/TET	DFO*/TAMRA/NED	ROX/TR*	ATTO 633/LIZ	ATTO 680/Alexa Fluor* 680	ı
StepOne®		FAM	AP5/YY*/HEX*/JOE/VIC/TET*	ROX				
StepOnePlus		FAM	AP5/YY*/HEX*/JOE/VIC/TET*	DFO*/TAMRA/Cy`3/NED	ROX			ı
Cycler iQ°		FAM	AP5/YY*/HEX/ Cy'3/TET	DFO*/TAMRA/Cy`3/NED	ROX/TR	Cy'5		
My iQ'	ı	FAM			ı	ı		ı
iQ5		FAM	AP5/YY*/HEX/JOE/TET	DFO*/TAMRA/Cy`3/NED	ROX/TR	Cy'5		ı
CFX 96"	ı	FAM	AP5/YY*/HEX/JOE*/TET	ROX / TR	Cy'5	Cy ^{35.5}		ı
MiniOpticon*	ı	FAM	AP5/YY*/HEX/TET*		ı	ı		I
DNA Engine Opticon ¹	ı	FAM	·	ı	ı	ı		ı
DNA Engine Opticon [*] 2	ı	FAM	AP5/YY/HEX/TAMRA/VIC/TET	ı	ı	ı		ı
Chromo 4"	ı	FAM	AP5/YY*/HEX/TAMRA/ Cy'3.JOE/VIC/TET	ROX/TR	Cy'5	ı		ı
Mx3000P* (choice of 4 filtres)	ı	FAM	TET	YY*/HEX/JOE/VIC	Cy'3	DFO/TAMRA/NED	TR/ROX	Cy'5
Mx3005P* (choice of 5 filtres)	Epoch Blue / Alexa Fluor [°] 350	FAM	TET	YY*/HEX/JOE/VIC	Cy'3	DFO/TAMRA/NED	TR/ROX	Cy'5
Mx4000° (choice of 4 filtres)	ı	FAM	TET	YY*/HEX/JOE/VIC	Cy'3	DFO/TAMRA/NED	TR/ROX	Cy'5
AriaMx (choice of up to 6 filtres)	ATT0 425	FAM	НЕХ	Cy'3	ROX	Cy'5		ı
Mastercycler ep realplex2	ı	FAM	AP5/YY/HEX/JOE/VIC/TET	·	ı	ı		ı
Mastercycler ep realplex4	ı	FAM	AP5/YY/ HEX/TET/JOE/VIC	DF0*/TAMRA	ROX	ı		ı
LighttCycler*15	ı	FAM	AP5/YY/HEX/JOE/VIC/TET	Cy'5	ı	ı		ı
LighttCycler"2	ı	FAM	AP5/HEX/YY*/JOE*/VIC	TR/LC Red 610	ATT0 620/LC Red 640	Cy'5/LC Red 670	ATTO 680 / LC Red 705	ı
LightCycler 480° I	ATT0 425	FAM	AP5/YY/HEX/JOE/VIC	ROX/TR/LC Red 610	ATT0 620/LC Red 640	Cy'5		·
LightCycler 480° II	ATT0 425	FAM	AP5/YY/HEX/JOE/VIC	ROX/TR/LC Red 610	ATT0 620/LC Red 640	Cy'5/Cy'5.5		ı
LightCycler 96	ı	FAM	AP5/YY/HEX/VIC	TR/LC Red 610	Cy'5	ı	ı	I
Smartcycler1	ı	FAM	AP5/YY/Cy ³ /JOE/VIC/TET	TR	Cy'5	ı		ı
Smartcycler 2	ı	FAM	AP5/Cy'3/YY*/J0E*/TET	TR/R0X	Cy'5	ı		ı
Rotor-Gene [*] 2000 / 3000		FAM	AP5/YY*/JOE/VIC/TET	TAMRA/R0X/Cy'3.5/TR	Cy'5	ı		ı
Rotor-Gene 6000	Epoch Blue / Alexa Fluor [°] 350	FAM	AP5/YY/HEX/JOE/VIC/TET	TAMRA/ROX/Cy'3.5/TR	Cy'5	ATT 0680		
PikoReal		FAM	AP5/HEX/YY	ROX/TR	Cy'5	ı		ı
Qtower	ı	FAM	AP5/YY/ HEX/JOE/VIC	DFO/TAMRA/NED	ROX /TR/Cy'3.5	Cy'5	Cy ^(5,5)	ı
* perform a dye calibration for optimal results YY = Yakima Yellow [®] DFO = Dragonfly Orange [™] TR =	otimal results YY = Yakima Y	'ellow [®] DFO = Dragor		1 [®] In blue = Recommended	by Eurogentec In grey =	: Not available at Eurogented	Texas Red [®] In blue = Recommended by Eurogentec In grey = Not available at Eurogentec In black = Available at Eurogentec	ogentec



Our virgin optical quality polypropylene blend is optimised for qPCR and causes no background fluorescence. The wall thickness has been designed for an optimal heat transfer and to minimise evaporation of the reaction mix.

The antistatic properties of our plastics reduce reagents adsorption on the tube walls, increase the reaction yield and allow the use of small reaction volumes. The plates are perfectly flat, thin-walled and rigid, and show extreme uniformity to avoid edge artefacts.

Natural, white or frosted plates are available. White plates significantly increase signal-to-noise ratio compared to the natural plates but it may be difficult to see through the content. The best compromise remains the frosted plates which allow a direct view of the content and a high signal-to-noise ratio.

The super-tight closure and sealing properties reduce evaporation, leading to more reproducible results. The optical seals do not interfere with the signal, contrary to many other brands.

Please refer to the annexes to know which plastics is the most suited for your thermocycler. (pages 28 ightarrow 30) \blacksquare

PCR Custom Primer services & Prob

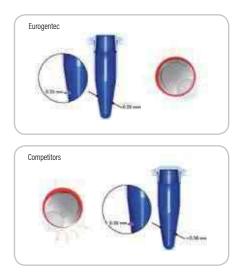
qPCR plastics

FEATURES

qPCR & RT-qPCR

High purity, DNa(se), RNa(se), pyrogen-free to avoid sample contamination and degradation

BENEFITS



Eurogentec's wells show an extreme uniformity of wall thickness avoiding edge artefacts. Moreover, the wall is thin at the bottom for an optimal heat transfer and thicker at the top to minimise evaporation. Red circles represent a top view of a well.



96-well plates

Our well plates are available for all thermocyclers and can be combined with either optical flat 8-caps strips as well as with gPCR optical seals. All non-skirted plates can be easily cut into 16, 24, 32 or 48-well pieces.

gPCR 96-well plates for ABI GeneAmp® 5700 SDS, ABI Prism® SDS 7000, 7300, 7500 Regular block, 7700, 7900 Regular block and ViiA[™]7 Regular block, Quanstudio regular (0,2 ml block)

- · High profile
- Thin-walled
- Sub-skirted
- · Optical quality
- · Frosted or white

Description	Reference	Quantity
qPCR 96-well plate sub-skirted, high profile, frosted (ABI systems)	RT-PL96-AB	5 x 5 plates
qPCR 96-well plate sub-skirted, high profile, frosted (ABI systems), 200 pack	RT-PL96-AB-P200	200 plates + seals
qPCR 96-well plate sub-skirted, high profile, frosted (ABI systems), 500 pack	RT-PL96-AB-P500	500 plates + seals
qPCR 96-well plate sub-skirted, high profile, white (ABI systems)	RT-PL96-ABW	5 x 5 plates
qPCR 96-well plate sub-skirted, high profile, white (ABI systems), 200 pack	RT-PL96-ABW-P200	200 plates + seals
qPCR 96-well plate sub-skirted, high profile, white (ABI systems), 500 pack	RT-PL96-ABW-P500	500 plates + seals

qPCR 96-well plates for ABI Prism[®] SDS 7500 Fast block, 7900 Fast block, StepOne Plus and ViiA™7 Fast block, Quanstudio regular (0,1 ml block)



Description	Reference	Quantity
qPCR 96-well plate sub-skirted, low profile, frosted (ABI FAST systems)	RT-PL96-AF	5 x 5 plates
qPCR 96-well plate sub-skirted, low profile, frosted (ABI FAST systems), 200 pack	RT-PL96-AF-P200	200 plates + seals
\ensuremath{qPCR} 96-well plate sub-skirted, low profile, frosted (ABI FAST systems), 500 pack	RT-PL96-AF-P500	500 plates + seals
\ensuremath{qPCR} 96-well plate sub-skirted, low profile, white (ABI FAST systems)	RT-PL96-AFW	5 x 5 plates
qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems), 200 pack	RT-PL96-AFW-P200	200 plates + seals
gPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems), 500 pack	RT-PL96-AFW-P500	500 plates + seals

qPCR 96-well plates for LC480

- Developed for LC480,
- no adaptor needed.
- Low profile
- Thin-walled
- Semi-skirted White

It is necessary to use our qPCR optical caps (flat 8-cap strips) or seals, to seal our plates

qPCR 96-well plates for iCycler iQ[®], iQ5, MyiQ, Mx4000[®], Mx3000P[®], Mx3005P[®] and MasterCycler[®] ep realplex

- Also compatible with most regular 96-well ABI Real-Time thermocyclers
- High profile Thin-walled Non-skirted Natural or white · Easy to cut into 16, 24, 32, 48-well Natural

Description	Reference	Quantity
qPCR 96-well plate non-skirted, high profile, natural	RT-PL96-MQ	5 x 5 plates
qPCR 96-well plate non-skirted, high profile, natural, 200 pack	RT-PL96-MQ-P200	200 plates + seals
qPCR 96-well plate non-skirted, high profile, natural, 500 pack	RT-PL96-MQ-P500	500 plates + seals
qPCR 96-well plate non-skirted, high profile, white	RT-PL96-MQW	5 x 5 plates
qPCR 96-well plate non-skirted, high profile, white, 200 pack	RT-PL96-MQW-P200	200 plates + seals
qPCR 96-well plate non-skirted, high profile, white, 500 pack	RT-PL96-MQW-P500	500 plates + seals

qPCR 96-well plates for DNA Engine Opticon[®] 1 and 2, MiniOpticon, Chromo4, StepOne and Quantica®

Frosted or white

pieces

· Easy to cut into 16, 24, 32, 48-well pieces



Description	Reference	Quantity
qPCR 96-well plate non-skirted, low profile, frosted	RT-PL96-OP	5 x 5 plates
qPCR 96-well plate non-skirted, low profile, frosted, 200 pack	RT-PL96-0P-P200	200 plates + seals
qPCR 96-well plate non-skirted, low profile, frosted, 500 pack	RT-PL96-OP-P500	500 plates + seals
qPCR 96-well plate non-skirted, low profile, white	RT-PL96-OPW	5 x 5 plates
qPCR 96-well plate non-skirted, low profile, white, 200 pack	RT-PL96-0PW-P200	200 plates + seals
qPCR 96-well plate non-skirted, low profile, white, 500 pack	RT-PL96-0PW-P500	500 plates + seals

Description	Reference	Quantity
qPCR 96-well plate for LC480, low profile, thin-walled, semi-skirted, white	RT-PL96-LC480	5 x 5 plates
qPCR 96-well plate for LC480, low profile, thin-walled, semi-skirted, white, 200 pack	RT-PL96-LC480-P200	200 plates + seals
qPCR 96-well plate for LC480, low profile, thin-walled, semi-skirted, white, 500 pack	RT-PL96-LC480-P500	500 plates + seals

Discontinued: the previous model RT-PI 96-I C which must be combined with the adaptor has been discontinued.

qPCR optical caps & seals

The extremely clear glass-grade area of the cap ensures very good transmission of the fluorescence and equals the performance properties of optical seals. When combined with our gPCR plates they seal better than other brands, thus less evaporation.

Our adhesive optical seals have excellent optical quality properties and will not interfere with the signal, leading to higher signal-tonoise ratio compared to other brands. The glue that we use has been specifically developed for the type of plastics that we use, thus it sticks to the plate very well and leads to better sealing and less evaporation. The seal itself is thicker than usual films, which avoids potential tears; moreover it will not curl and stick to itself.





Description	Reference	Quantity
qPCR optical semi-dome 8-cap strip, natural	RT-OCAP-300	300 strips
qPCR optical "wide indented" flat 8-cap strip, natural	RT-FLAT-120, RT-FLAT-300	120 strips or 300 strip
qPCR opti-seals (optical, disposable, adhesive)	RT-OPSL-25, RT-OPSL-100	25 or 100

qPCR 8-tube strips

Regular Profile, white

These tube-strips are designed for PCR and gPCR applications. For the highest S/N ratios in qPCR the use of white or frosted products is recommended. gPCR 8-tube strips are compatible with almost all PCR and qPCR cycler models which accept regular or low profile products. Please refer to the compatibility table to select the 8-tube strip adapted to your thermocycler (p.28).

Description	Reference	Quantity	
0.1 mL Low Profile			
qPCR 8-tube strip, frosted	RT-STR8-LF120	1 bag of 120 strips	
qPCR 8-tube strip, frosted + flat caps	RT-STR8-LF-P600	600x strips + 600 caps	
qPCR 8-tube strip, white	RT-STR8-LW120	1 bag of 120 strips	
qPCR 8-tube strip, white + flat caps	RT-STR8-LW-P600	600x strips + 600 caps	
0.2 mL Regular Profile			
qPCR 8-tube strip, frosted	RT-STR8-RF120	1 bag of 120 strips	
qPCR 8-tube strip, frosted + flat caps	RT-STR8-RF-P600	600x strips + 600 caps	
qPCR 8-tube strip, white	RT-STR8-RW120	1 bag of 120 strips	
qPCR 8-tube strip, white+ flat caps	RT-STR8-RW-P600	600x strips + 600 caps	
LC480 96-well plate adaptor*	RT-PL96-LCAD	1 piece	
*This adaptor is mandatory for use in LC/80			

*This adaptor is mandatory for use in LC480



384-well plates

For Roche, ABI, Bio-Rad & other systems

Our skirted 384-well plate types perfectly fit to Roche, ABI, Bio-Rad and Eppendorf gPCR platforms, as well as many regular PCR cyclers. The plates are fully optimised for robotic applications used for high-throughput, low volume processing. The plates are perfectly suited for diagnostic & clinical procedures. Each plate is lasermarkcoded with a unique code.

- Perfect fit to Roche, ABI, Bio Rad and Eppendorf systems
- Fully skirted, low profile, white plate
- · Low evaporation, very robust, due to clever design
- · Extreme Uniform wells lead to reproducible results
- · Robotic friendly, easily stackable and flat
- High S/N Ratio



Description	Reference	Quantity
For Roche LC480	RT-PL384-LCW	8 x 5 plates
For ABI, Bio-Rad & Eppendorf systems	RT-PL384-ABW	8 x 5 plates

Plastics Samples

Reference Product name Quantity qPCR 96-well plate type RT-PL96-ABSA qPCR 96-well plate sub-skirted, high profile, frosted (ABI systems) sample 2 RT-PL96-ABSA qPCR 96-well plate sub-skirted, high profile, white (ABI systems) sample 2 RT-PL96-ABWSA qPCR 96-well plate sub-skirted, low profile, frosted (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, natural sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-L0480SA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL98-LVEXA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile sample 2 RT-PL384-LCWSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -white sample 6 RT-STR8-LFSA qPCR 8			
RT-PL96-ABSA qPCR 96-well plate sub-skirted, high profile, frosted (ABI systems) sample 2 RT-PL96-ABWSA qPCR 96-well plate sub-skirted, high profile, white (ABI systems) sample 2 RT-PL96-AFSA qPCR 96-well plate sub-skirted, low profile, frosted (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-MQSA qPCR 96-well plate non-skirted, high profile, natural sample 2 RT-PL96-MQSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, frosted sample 2 RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, white sample 2 QPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 QPCR 86-well plate semi-skirted, low profile, white sample 2 2 RT-PL96-LC480SA qPCR 384-well plate type 2 RT-PL384-LCWSA qPCR 84-well white plate, skirted, low profile for LC480 sample 2 QPCR 8-tube Strips qPCR 8-tube strip, reg	Reference	Product name	Quantity
RT-PL96-ABWSA qPCR 96-well plate sub-skirted, high profile, white (ABI systems) sample 2 RT-PL96-AFSA qPCR 96-well plate sub-skirted, low profile, frosted (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-MQSA qPCR 96-well plate non-skirted, high profile, natural sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 QPCR 96-well plate type 2 2 RT-PL96-OPWSA qPCR 96-well plate type 2 QPCR 84-well plate type 2 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 QPCR 84-well white plate, skirted, low profile for LC480 sample 2 2 QPCR 84-tube strip qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 <t< th=""><th></th><th>qPCR 96-well plate type</th><th></th></t<>		qPCR 96-well plate type	
RT-PL96-AFSA qPCR 96-well plate sub-skirted, low profile, frosted (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-AFWSA qPCR 96-well plate sub-skirted, high profile, natural sample 2 RT-PL96-MQSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, frosted sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white + seals for LC480 sample 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile sample 2 QPCR 8-tube Strips qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6	RT-PL96-ABSA	qPCR 96-well plate sub-skirted, high profile, frosted (ABI systems) sample	2
RT-PL96-AFWSA qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample 2 RT-PL96-MQSA qPCR 96-well plate non-skirted, high profile, natural sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, natural sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, frosted sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-DPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 384-well plate type 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 QPCR 384-well white plate, skirted, low profile sample 2 QPCR 8-tube Strips qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-RFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-PL96-ABWSA	qPCR 96-well plate sub-skirted, high profile, white (ABI systems) sample	2
RT-PL96-MQSA qPCR 96-well plate non-skirted, high profile, natural sample 2 RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 384-well plate type 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 QPCR 384-well white plate, skirted, low profile sample 2 QPCR 8-tube Strips 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-PL96-AFSA	\ensuremath{qPCR} 96-well plate sub-skirted, low profile, frosted (ABI FAST systems) sample	2
RT-PL96-MQWSA qPCR 96-well plate non-skirted, high profile, white sample 2 RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, frosted sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white + seals for LC480 sample 2 qPCR 384-well plate type 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 qPCR 384-well white plate, skirted, low profile for LC480 sample 2 qPCR 384-well white plate, skirted, low profile sample 2 qPCR 8-tube Strips 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6	RT-PL96-AFWSA	qPCR 96-well plate sub-skirted, low profile, white (ABI FAST systems) sample	2
RT-PL96-OPSA qPCR 96-well plate non-skirted, low profile, frosted sample 2 RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-OPWSA qPCR 96-well plate semi-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white + seals for LC480 sample 2 qPCR 384-well plate type 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 RT-PL384-ABWSA qPCR 384-well white plate, skirted, low profile sample 2 qPCR 8-tube Strips 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6	RT-PL96-MQSA	qPCR 96-well plate non-skirted, high profile, natural sample	2
RT-PL96-OPWSA qPCR 96-well plate non-skirted, low profile, white sample 2 RT-PL96-LC480SA qPCR 96-well plate semi-skirted, low profile, white + seals for LC480 sample 2 qPCR 384-well plate type 2 RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 qPCR 384-well white plate, skirted, low profile for LC480 sample 2 qPCR 384-well white plate, skirted, low profile sample 2 qPCR 8-tube Strips 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6	RT-PL96-MQWSA	qPCR 96-well plate non-skirted, high profile, white sample	2
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RT-PL384-LCWSA qPCR 384-well white plate, skirted, low profile for LC480 sample 2 qPCR 384-well white plate, skirted, low profile sample 2 qPCR 384-well white plate, skirted, low profile sample 2 qPCR 8-tube Strips 2 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-RWSA qPCR 8-tube strip, regular profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LWSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-PL96-LC480SA	qPCR 96-well plate semi-skirted, low profile, white + seals for LC480 sample	2
RT-PL384-ABWSA qPCR 384-well white plate, skirted, low profile sample 2 qPCR 8-tube Strips qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-RWSA qPCR 8-tube strip, regular profile - 0.2 mL -white sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LWSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6		qPCR 384-well plate type	
qPCR 8-tube Strips RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-RWSA qPCR 8-tube strip, regular profile - 0.2 mL -white sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LWSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-PL384-LCWSA	qPCR 384-well white plate, skirted, low profile for LC480 sample	2
RT-STR8-RFSA qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample 6 RT-STR8-RWSA qPCR 8-tube strip, regular profile - 0.2 mL -white sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LWSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-PL384-ABWSA	qPCR 384-well white plate, skirted, low profile sample	2
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RT-STR8-LFSA qPCR 8-tube strip, low profile - 0.1 mL -frosted sample 6 RT-STR8-LWSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-STR8-RFSA	qPCR 8-tube strip, regular profile - 0.2 mL -frosted sample	6
RT-STR8-LWSA qPCR 8-tube strip, low profile - 0.1 mL -white sample 6	RT-STR8-RWSA	qPCR 8-tube strip, regular profile - 0.2 mL -white sample	6
	RT-STR8-LFSA	qPCR 8-tube strip, low profile - 0.1 mL -frosted sample	6
Covers	RT-STR8-LWSA	qPCR 8-tube strip, low profile - 0.1 mL -white sample	6
		Covers	
RT-FLAT-SA qPCR optical flat 8-cap strip, natural sample 6	RT-FLAT-SA	qPCR optical flat 8-cap strip, natural sample	6
RT-OCAP-SA qPCR optical semi-domed 8-cap strip, natural sample 24	RT-OCAP-SA	qPCR optical semi-domed 8-cap strip, natural sample	24
RT-OPSL-SA qPCR optical seals (disposable, adhesive) sample 2	RT-OPSL-SA	qPCR optical seals (disposable, adhesive) sample	2



96-WELL PLATE COMPATIBILITY WITH REAL-TIME THERMOCYCLERS

Productional of the second of the s																										
system Minice and Approximately (Minice and Approximately (Minice and Minice and	type Sub-skirted, high profile, frosted or	Flat caps			ABI Prism' SDS 7500 FAST	-	ABI Prism' SDS 7900HT FAST	ABI Step One"	ABI Step One " Plus		ABI Vita7" FAST		ABI QuantStudio [®] 6-7-12k Flex FAST		-			Bio-Rad DNA Engine (Dyad-Tetrad 2) Chromo4 ⁻	Bio-Rad DNA Engine Opticon 2	MiniOpticon"	Bio-Rad CFX 96	Bio-Rad CFX 384	Roche LightCycler [*] 480	Roche COBAS z 480	Roche LightCycler [*] 96	Thermo Fisher/Finnzymes PikoReal 24-well
profile, fication of MRTPUSA-FOR fication of MRTPU	systems) RT-PL96-		*	*		*				*		*		~	*	~	~									
profile, natural or withis type FR- PL95-M00 RFLAR200 V	profile, frosted or white type (ABI systems) RT-PL96-AF or				*		*		*		*		*					v	~							
PL95-MOW or RT-PL95-MOW or RT-PL95-MOW Rt corps vi vi<	profile, natural		~	~						~		~		*	*	*	*			X	~					
profile, rotated or Winte type RT- P195-007W RT-RAF-20 (RT-082-100) I	PL96-MQ		~	~						~		~		*	*	*	*			X	~					
or RT-P136-0PW RT-OP3-100 V <th>profile, frosted or white type RT-</th> <td></td> <td></td> <td></td> <td>~</td> <td></td> <td>~</td> <td>*</td> <td>~</td> <td></td> <td></td> <td></td> <td>~</td> <td></td> <td></td> <td></td> <td></td> <td>*</td> <td>*</td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td>	profile, frosted or white type RT-				~		~	*	~				~					*	*		*					
Semi-skifted, low profile, white plate type poile, white plate type poi		RT-OPSL-100			•		~	*	~				~					*	*		*					
RT-OPSL-100 RT-OPSL-100 Rt Rt <th< td=""><th>profile, white RT-</th><td>FLAT-120</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>*</td><td>*</td><td>*</td><td></td></th<>	profile, white RT-	FLAT-120																					*	*	*	
plate type Over Skirted, low profile, white plate for AB IR-PL34-4 ABW Ahesive seals RT-OSL-100 I <th></th> <td></td> <td>*</td> <td>*</td> <td>*</td> <td></td>																							*	*	*	
profile, white plate for ABIRTPL384- ABW Adhesive seals RT-0FSL-100 *	plate type	Cover		1	1	1	1	I	1	I	1	I	I								I					
profile, white plate for LC RT-PL384. Athesive seals RT-OPSL-100 L <thl< th=""> L L L L L</thl<>	profile, white plate for ABI RT-PL384-					*	*			*		*										*				
qPCR 8-tube Strips Cover Refere to cycler manufacturer instructions for required adaptor Extra Robust, Regular Profile, Frosted, 0.2 ml RT-STR8-RF120 Flat caps RT-FLAT-120 v <t< td=""><th>profile, white plate for LC RT-PL384-</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>*</td><td>*</td><td></td><td></td><td></td></t<>	profile, white plate for LC RT-PL384-																					*	*			
Regular Profile, Frosted, 0.2 ml Flat caps RT-FLAT-120 ···· ··· ··· ··		Cover	Ref	fers to	cycler	r manu	facture	er inst	ructior	is for r	equire	d adap	otor												I	
Extra Robust, Regular Profile, Flat caps Flat	Regular Profile, Frosted, 0.2 ml		v	v		v				v		v		v	~	~	~			~	~					
Extra Robust, Low Profile, Frosted, 0.1 ml RT-STR8-LF120 Flat caps RT-FLAT-120 r	Extra Robust, Regular Profile, White, 0.2 ml RT-		~	~		v				~		~		~	~	~	~			~	~					
Extra Robust, Low Profile, White, 0.1	Extra Robust, Low Profile, Frosted, 0.1				~		~	~	~		~		~					~	~		~			v **	~	*
	Extra Robust, Low Profile, White, 0.1				~		~	~	~		~		~					~	~		~		✔**	v **	~	*

★ for preferentially used plastics. Bolded 🖌 for compatible plastics. qPCR optical semi-dome 8 cap strips are also available (RT-OCAP-300: 300 strips). They can be used on several machines. > plate must be cut to size (48 well) to fit Step One" or MiniOpticon". ** adaptor needed (Ref: RT-PL96-LCAD).

Please refer to cycler manufacturer instruction for required adaptor or contact us at scientific.support@eurogentec.com

PCR PLATE COMPATIBILITY TABLE (PART 1/2)

ABIGeneAmp' PCR System 240024ABIGeneAmp' PCR System 960096ABI2700 Thermal Cycler96ABI2720 Thermal Cycler96/384ABI9800 Fast Thermal Cycler96/384ABI9800 Fast Thermal Cycler96/384BioerXP Cycler30/48/96/384BioerLittle Genius25BiometraUno24/48/96/384BiometraUno II24/48/96/384BiometraTorsonal20/48BiometraTorsonal20/48BiometraTorsonal20/48BiometraTorsonal20/48BiometraTorsonal20/48BiometraTorsonal20/48BiometraTordiant48/96/384BiometraTorofessional96/384BiometraColocer'24Bio-RadCycler'96/384Bio-RadCycler'96/384Bio-RadColocer'96/384Bio-RadColocer'96/384CLPATC 20196/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' gradient96/384GRIG-storm GSI96/384GRIG-storm GSI96/384GRIG-storm GSI96/384GRIG-storm GSI96/384GRIG-storm GSI96/384GRIG-storm GSI96/384GRIG-storm GSI96/384 <th>Sub-skirted, high profile, frosted</th> <th># Wells</th> <th>Model</th> <th>Manufacturer</th>	Sub-skirted, high profile, frosted	# Wells	Model	Manufacturer
ABIGeneAmp' PCR System 960096ABI2700 Thermal Cycler96ABI2720 Thermal Cycler96ABIGeneAmp' PCR System 970096/384ABI9800 Fast Thermal Cycler96/384ABIVerity96/384BioerXP Cycler30/48/96/384BioerLittle Genius25BiometraUno24/48/96BiometraUno II24/48/96/384BiometraTorsonal20/48BiometraTorsonal20/48BiometraTordiant48/96/384BiometraTordiant86/384BiometraTordessional96/384BiometraTordosonal96/384BiometraTordosonal96/384BiometraColocler24/48/96/384BiometraTordosonal96/384BiometraGene Cycler24/38/36Bio-RadKycycler96/384Bio-RadKycycler96/384Bio-RadColoo96/384CLPATC 20196CLPATC 40196/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' gradient96/384EppendorfGestorm GSI96/384GRIG-storm GSI96/384GRIG-storm GSX96/384GRIG-storm GSX96/384	RT-PL96-AB			
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BiometraT3/T300020/48BiometraTProfessional96/384BiometraTRobot96/384Bio-RadGene Cycler24Bio-RadiCycler'48/96/384Bio-RadMyCycler96Bio-RadC100096/384Bio-RadC100096/384CLPATC 20196CLPATC 40196CtPMasterCycler'60/96/384EppendorfMasterCycler' ep gradient96/384EppendorfMasterCycler' ep gradient96/384EppendorfGestorm GSI48.02ml/0.5mlGRIG-storm GSX48.02ml/0.5mlGRIG-storm GSX96/384	х	48/96/384	T1 (plus)	Biometra
BiometraTProfessional96/384BiometraTRobot96/384Bio-RadGene Cycler24Bio-RadiCycler'48/96/384Bio-RadMyCycler96Bio-RadC100096/384Bio-RadC100096/384CLPATC 20196Corbett ResearchPalm-Cycler'60/96/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' ep gradient96/384EppendorfGestorm GSI96/384GRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX96/384GRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX96/384GRIG-storm GSA96/384GRIG-storm GSA96/384GRIG-storm GSA96/384GRIG-storm GSA96/38	x	48/96/384	TGradiant	Biometra
BiometraTRobot96/384Bio-RadGene Cycler24Bio-RadiCycler'48/96/384Bio-RadMyCycler96Bio-RadC100096/384Bio-RadATC 20196CLPATC 40196Corbett ResearchPalm-Cycler'60/96/384EppendorfMasterCycler'gradient96/384EppendorfMasterCycler'ep gradient96/384EppendorfGestorm GS148.02ml/0.5mlGRIG-storm GSX48.02ml/0.5mlGRIG-storm GSX48.02ml/0.5mlGRIG-storm GSX96/384	х	20/48	T3/T3000	Biometra
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Bio-RadMyCycler96Bio-RadC100096/384CLPATC 20196CLPATC 40196Corbett ResearchPalm-Cycler"60/96/384EppendorfMasterCycler'gradient96/384EppendorfMasterCycler'ep gradient96/384EppendorfMasterCycler'ep gradient96/384EppendorfMasterCycler'ep gradient96/384EppendorfGastorm GSI48 0.2ml/0.5mlGRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX48 0.2ml/0.5ml	x	24	Gene Cycler	Bio-Rad
Bio-RadC100096/384CLPATC 20196CLPATC 40196Corbett ResearchPalm-Cycler"60/96/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' gradient96/384EppendorfMasterCycler' ep gradient96/384EppendorfMasterCycler' ep gradient96/384EppendorfMasterCycler' ep gradient96/384EppendorfGe-storm GSI48 0.2ml/0.5mlGRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX96/384GRIG-storm GSX96/384GRIG-storm GSX96/384GRIG-storm GSX84 0.2ml/0.5ml	х	48/96/384	iCycler°	Bio-Rad
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CLPATC 40196Corbett ResearchPalm-Cycler'60/96/384EppendorfMasterCycler' and and the start cycler' and the start c	x	96/384	C1000	Bio-Rad
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EppendorfMasterCycler' ep gradient96/384EppendorfMasterCycler' ep gradient S96/384GRIG-storm GSI48 0.2ml/0.5mlGRIG-storm GSI96/384GRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX96/384GRIG-storm GSX96/384GRIG-storm GSX96/384GRIG-storm GSX96/384GRIG-storm GSA48 0.2ml/0.5ml	х	96/384	MasterCycler*	Eppendorf
EppendorfMasterCycler'ep gradient S96/384GRIG-storm GSI48 0.2ml/0.5mlGRIG-storm GSI96/384GRIG-storm GSX48 0.2ml/0.5mlGRIG-storm GSX96/384GRIG-storm GSX96/384GRIG-storm GSX48 0.2ml/0.5ml	х	96/384	MasterCycler* gradient	Eppendorf
GRI G-storm GSI 48 0.2ml/0.5ml GRI G-storm GSI 96/384 GRI G-storm GSX 48 0.2ml/0.5ml GRI G-storm GSX 96/384 GRI G-storm GSX 96/384 GRI G-storm GSX 96/384 GRI G-storm GSX 96/384	х	96/384	MasterCycler [®] ep gradient	Eppendorf
GRI G-storm GSI 96/384 GRI G-storm GSX 48 0.2ml/0.5ml GRI G-storm GSX 96/384 GRI G-storm GSX 96/384 GRI G-storm GSX 48 0.2ml/0.5ml	х	96/384	MasterCycler [®] ep gradient S	Eppendorf
GRI G-storm GSX 48 0.2ml/0.5ml GRI G-storm GSX 96/384 GRI G-storm GS4 48 0.2ml/0.5ml	х	48 0.2ml/0.5ml	G-storm GSI	GRI
GRI G-storm GSX 96/384 GRI G-storm GS4 48 0.2ml/0.5ml	х	96/384	G-storm GSI	GRI
GRI G-storm GS4 48 0.2ml/0.5ml	х	48 0.2ml/0.5ml	G-storm GSX	GRI
	х	96/384	G-storm GSX	GRI
GRI G-storm GS4 96/384	x	48 0.2ml/0.5ml	G-storm GS4	GRI
	Х	96/384	G-storm GS4	GRI
MJ Research/Bio-Rad Mini 48	x	48	Mini	MJ Research/Bio-Rad
MJ Research/Bio-Rad PTC-100 60/96	х	60/96	PTC-100	MJ Research/Bio-Rad

✓ Fits this Cycler
 ★ Most optimal plastic for this thermocycler
 ➢ The plate must be cut

ծ< X Not compatible

qPCR/PCR Amplification Technologies

Sub-skirted, low profile, frosted	Non-skirted, high profile, natural	Non-skirted, low profile, frosted	Skirted, low profile, white
RT-PL96-AF	RT-PL96-MQ	RT-PL96-0P	RT-PL384-LCW
x	*	х	x
x	~	х	x
x	v	х	x
x	~	х	x
x	v	х	v
*	х	~	x
x	~	х	v
х	~	~	x
x	*	*	x
х	~	~	х
x	*	~	x
x	*	~	x
x	*	*	x
x	*	~	~
x	*	~	x
x	*	*	x
x	*	~	v
х	*	~	V
x	*	х	x
x	~	х	v
x	v	х	х
х	~	х	v
x	v	~	x
x	~	~	x
x	v	~	v
x	V	~	v
х	~	~	v
х	V	~	V
х	v	~	v
х	V	~	x
Х	*	*	х
х	V	~	x
х	*	*	x
х	v	V	x
х	*	*	x
х	*	*	x
Х	~	~	x
х	V	~	V



PCR PLATE COMPATIBILITY TABLE (PART 2/2)

Manufacturer	Model	# Wells	Sub-skirted, high profile, frosted	Sub-skirted, low profile, frosted	Non-skirted, high profile, natural	Non-skirted, low profile, frosted	Skirted, low profile, white
Manufacturer	Model	# wens	RT-PL96-AB	RT-PL96-AF	RT-PL96-MQ	RT-PL96-OP	RT-PL384-LCW
MJ Research/Bio-Rad	PTC-221	30/48/96/384	x	X	V	v	v
MJ Research/Bio-Rad	PTC-220	30/48/96/384	x	x	~	~	v
MJ Research/Bio-Rad	PTC-225	30/48/96/384	х	х	v	v	v
MWG	Primus 96	96	х	х	~	~	Х
MWG	Primus HT Dualblock	96/384	х	х	~	v	~
MWG	Primus Multiblock System	96/384	х	x	~	~	v
Stratagene	Robo-Cycler	96	х	х	~	v	х
Takara	TP 600	96	х	х	~	~	х
Takara	TP 650	96	х	х	~	~	Х
Takara	TP 3000	96	х	х	~	~	Х
Techne	Genius	40/96/384	х	х	~	~	~
Techne	TouchGene	40/96	х	х	~	~	х
Techne	FlexiGene/FlexiQuad	96/384	х	х	~	~	~
Techne	TechGene	25/96	х	х	~	~	х
Techne	Gene-E	96	х	х	~	~	Х
Techne	TC-412	96	х	х	~	~	х
Techne	TC-512	96/384	х	х	~	~	~
ThermoHybaid	PxE	96	х	х	~	~	х
ThermoHybaid	OmniGene	96	х	х	~	~	х
ThermoHybaid	PCR Express	48/96/384	х	х	~	~	~
ThermoHybaid	Omn-E	96	x	х	v	✓	Х
ThermoHybaid	TouchDown	48/96	х	х	~	~	Х
ThermoHybaid	Px2	96/384	x	х	~	~	~
ThermoHybaid	PCR sprint	24	х	х	*	*	Х
ThermoHybaid	MBS	96/384	х	х	~	~	v
ThermoHybaid	MBSR	96/384	х	х	~	~	~

SEQUENCER COMPATIBILITY

Manufacturer	Model	Sub-skirted, high profile, frosted	Sub-skirted, low profile, frosted	Non-skirted, high profile, natural	Non-skirted, low profile, frosted
		RT-PL96-AB	RT-PL96-AF	RT-PL96-MQ	RT-PL96-0P
ABI	310	x	x	v	x
ABI	3100	х	х	~	x
ABI	3130	x	x	v	x
ABI	3700	v	x	✓	x
ABI	3730	v	х	v	x
Beckman	CEQ 8000	v	x	x	x
Beckman	CEQ 8800	~	x	x	x
Transgenomics	Wave MD System 4000	Х	х	~	х

Models not mentioned within this list are not compatible with our plates.

Any type of cap/seal can be combined with these machines. Semi-domed caps are recommended for ABI machines.

Fits this Cycler

Most optimal plastic for this thermocycler

≽ The plate must be cut

Not compatible х

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