Compatibility guide for the most common real-time PCR equipment

VIASURE Real Time PCR kits are available in a ready-to-use lyophilized format within low-profile or high-profile wells, 2 ml vials or special tubes for Rotorgene.

Depending on the equipment used, it will adjust to one size or another. Please refer to the table and verify the specifications of your equipment.

If the equipment does not appear in the list, contact your supplier. This table is indicative, it is recommended to verify the equipment before executing the (RT) -qPCR.

Low Profile Cyclers (0,1ml)

Manufacturer	Model
Agilent Technologies	AriaMx/AriaDx Real-Time PCR System
Applied Biosystems	7500 Fast / 7500 Fast Dx Real-Time PCR System [1] [6]
	QuantStudio™ 12K Flex 96-well Fast
	QuantStudio™ 6 Flex 96-well Fast
	QuantStudio™ 7 Flex 96-well Fast
	QuantStudio™ 3 Fast Real-Time PCR System (3)
	QuantStudio™ 5 Fast/ QuantStudio™ 5 Real-Time PCR System
	StepOne Plus™ Real-Time PCR System (3)
	StepOne™ [2]
	ViiA™ 7 Fast
Azure Biosystems	Azure Cielo 3 [4]
	Azure Cielo 6
BIONEER	Exicycler™ 96 Fast
Bio-Rad	CFX96TM / CFX96TM IVD Real-Time PCR Detection System
	Mini OpticonTM Real-Time PCR Detection System [4]
Roche	LightCycler ®480 Real-Time PCR System [6] [7]
	LightCycler ®96 Real-Time PCR System [6]
	Cobas z480 Analyzer [6][7]

Special Formats [4]

Manufacturer	Model
Bio Molecular Systems	Mic Real Time PCR Cycler
Cepheid	SmartCycler®
Qiagen	Rotor-Gene® Q
Precision System Science Cp., Ltd. (PSS)	geneLEAD VIII System

High Profile Cyclers (0,2ml)

Manufacturer	Model
Abbott	Abbott m2000 [6]
Agilent	Mx3000P™/ Mx 3005P™
Analytik Jena	qTower
Applied Biosystems	7300 [3] [6]
	7500 [6]
	7900 [3]
	ABI PRISM 7000 [3]
	ABI PRISM 7700 [3]
	QuantStudio™ 12K Flex 96-well
	QuantStudio™ 6 Flex 96-well
	QuantStudio™ 7 Flex 96-well
	QuantStudio™ 3 Real-Time PCR System [3]
	QuantStudio™ 5 Fast/ QuantStudio™ 5 Real-Time PCR System
	ViiA™ 7 Real-Time PCR System
BIOER	QuantGene 9600
BIONEER	Exicycler™ 96
Bio-Rad	CFX96TM Deep Well / CFX96TM Deep Well IVD
	iCycler iQTM Real-Time PCR Detection System
	iCycler iQTM5 Real-Time PCR Detection System
	My iQTM Real-Time PCR Detection System [4]
	My iQTM2 Real-Time PCR Detection System [4]
DNA-Technology	DTprime
	DTlite
Eppendorf	Mastercycler™ ep *realplex*
Qiagen	QIAquant 96
VIASURE	V-Lab96

(1) Select Ramp Speed **"Standard"**.
(2) No Cy5 caption.
(3) No ROX caption.
(4) Only FAM and HEX caption.
(5) The product must be reconstituted following the appropriate procedure (see Test procedure) and transferred to the specific tubes for Mic, SmartCycler®, Rotor-Gene® Q or geneLEAD VIII System.
(6) A special grid is needed to fit these real-time PCR kits.
(7) Specific compensation color is required.

Detection channels for the most common real-time PCR systems

Cyclers	Viasure Channel	Channel Detection	Comments
Bio-Rad CFX96™	FAM	FAM	Some wells may show abnormal RFU values during the first few cycles of a run with a non-sigmoid ascending line. If so, go to Settings menu, select the Apply Fluorescence Drift Correction for the baseline settings to correct it.
	HEX	HEX	
	ROX	ROX	
	Cy5	Cy5	
ABI 7500 Applied Biosystems	FAM	FAM	The passive reference option for ROX should be "none". Some wells may have abnormal RFU values during the first few cycles of a run that show a non-sigmoid ascending line. If you see this effect, modify the baseline by selecting the Cycle Start and Cycle End values so that the baseline ends before significant fluorescence is detected.
	HEX	VIC	
	ROX	ROX	
	Cy5	Cy5	
Lightcycler®480II Roche	FAM	465/510	For this equipment, a specific color compensation is required with the VS-CCK kit.
	HEX	533/580	
	ROX	533/610	
	Cy5	618/660	
Cobas z 480 Roche	FAM	465/510	For this equipment, a specific color compensation is required with the VS-CCK kit.
	HEX	540/580	
	ROX	540/610	
	Cy5	610/670	
Smartcycler® Cepheid	FAM	Channel 1	
	HEX	Channel 2	
	ROX	Channel 3	
	Cy5	Channel 4	
Abbott m2000rt	FAM	FAM	
	HEX	VIC	
	ROX	ROX	
	Cy5	Cy5	
Mx3000PTM Mx 3005PTM Agilent Technologies	FAM	FAM	The passive reference option for ROX should be "none".
	HEX	HEX	
	ROX	ROX	
	Cy5	Cy5	
AriaMx Agilent	FAM	FAM	
	HEX	HEX	
	ROX	ROX	
	Cy5	Cy5	
Rotor-Gene®Q Qiagen	FAM	Green	In channel settings, click the "Gain Optimization" button and then go to "Optimize Acquiring". The fluorescence target sample range should be between 5 and 10 FI for each channel. Also select the "Perform Optimization Before 1st Acquisition" option.
	HEX	Yellow	
	ROX	Orange	
	Cy5	Red	
Mic Real Time PCR Cycler bms	FAM	Green	In "Run Profile" menu, introduce correct parameters "Temperature Control" (Standard TAQ (v3)), Volume (20 ul) and thermal protocol. Go to "Cycling", select "Acquire on" option for all the channels. Use gain default values "Gain" for each channel (Green = 3, Yellow = 10, Orange = 10, Red = 10)
	HEX	Yellow	
	ROX	Orange	
	Cy5	Red	
Exicycler™ 96 BIONEER	FAM	FAM	
	HEX	JOE	
	ROX	ROX	
	Cy5	Cy5	