

BETTER SYSTEMS. BRILLIANT RESULTS.

Agilent Real-Time PCR Solutions





TOTAL CONFIDENCE qPCR

Built on Stratagene's legacy of enzyme engineering expertise and precision instruments, Agilent Technologies provides a comprehensive approach to real-time quantitative PCR (qPCR)—from sample preparation to data analysis. Every Agilent qPCR instrument, including the AriaMx Real-Time PCR System, comes with the same quality, intuitive software, and technical support that you have come to expect from the successful Mx3000P and Mx3005P qPCR instruments on the market today. We are proud to carry forward the people and product excellence from the Stratagene family to the Agilent family—ready to support you at every step.

Whether you are new or experienced in qPCR, Agilent's full range of products and industry-leading support is sure to keep you up and running with complete confidence and superior results.





Confidence in Success with Brilliant Ultra-Fast Master Mixes

Our unique Brilliant reagents are equally robust and reproducible across a variety of assays—even on fast cycling platforms. Superior specificity is delivered utilizing a novel, faster-activating hot start method to minimize the formation of primer-dimers and other off-target reactions.

- · Enhanced rapid hot start capability
- Reliable and reproducible data



Confidence in a System that Meets Your Needs—Today and Tomorrow

The agile design of the AriaMx Real-Time PCR System offers the industry's first configurable and customer-changeable optics. Now you can mix-and-match optics to suit your needs today, and easily change them to suit your needs for tomorrow.

- Modular design
- Ready-to-use
- Future-proof



Confidence in Easy-to-Use, Precise Software

The AriaMx Software combines robust data analysis algorithms and intuitive organization for precision and ultimate ease-of-use.

- Control experimental bias due to differences in amplification efficiencies through a proprietary algorithm
- Multiple, customizable data analysis algorithms
- Thermocycling control and precision you expect from a more expensive instrument

INTRODUCING Aria May Stevensor Better Systems. Brilliant Results.



Confidence is a system that meets your needs today and tomorrow. The AriaMx Real-Time PCR System is a fully integrated qPCR amplification, detection, and data analysis system. The system's modular design combines a state-of-the-art thermal cycler, an advanced optical system with spectra-optimized LED cartridges, and data analysis software.

The instrument leverages a comprehensive software suite of on-board instrument diagnostics, giving you confidence that instrument failpoints are identified prior to running your assay. Experience total confidence with AriaMx's blend of speed, agility, and precision.



4 | Agilent Real-Time PCR Solutions



Factory Calibrated

AriaMx is ready to go—no need to set quantification curves or calibrate the instrument.

Ultra-Fast Chemistry

AriaMx is optimized for Agilent's Brilliant III reagents, but also runs all fast chemistries.

Blazing Scan Times

Scan all channels in less than three seconds—the fastest in the industry.

AGILITY Today and Tomorrow

AriaMa

-

Modular Design

- -

In-lab upgrades with the click of a cartridge make in-lab repairs possible.

Intuitive Interface

AriaMx's touchscreen makes system integration easy for all users.

Broad Applications

AriaMx supports more than one assay and chemistry. Applications include: Gene Expression, Comparative Quantification (Single-Plex and Multiplex), Quantitative PCR (Single-Plex and Multiplex), Genotyping, Allele Discrimination, NGS Library Quantification, and more.

PRECISION Superior Data

Thermal Control

Easily maintains within ± 0.2 °C or less of target temperature.

Impressive Sensitivity

Two-fold discrimination in a single cycle with 95% confidence over a wide range of copies.

Robust Validation

Tested on 100,000 samples.

MODULAR OPTICS

> EASY-TO-LEARN

ペ SPEED

BRILLIANT REAGENTS Built upon Stratagene's legacy, Agilent Technologies provides a total solution approach to real-time quantitative PCR.

- Robust validation and tight manufacturing quality controls
- SYBR assays results in 42 minutes using Brilliant III reagents
- Open reagent platform: use your assays and reagents
- AffinityScript for the toughest samples and alleles

Ultra-Fast SYBR Master Mixes

A proprietary, quick acting hot start Taq mutant enables ultra-fast reactions which maintain amplification efficiency, R2, dynamic range and detection sensitivity.



AriaMx instrumentation makes routine and complicated applications faster and easier without sacrificing data integrity. Applications where AriaMx excels:

• HRM

Confidently genotype the toughest alleles in less time

• Multiplex

More agility and speed in your assays with reagents optimized for your reactions

• NGS Library Quantification Optimal cluster density improving efficiency and data quality

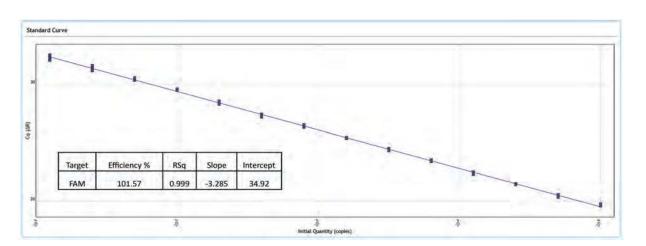
- miRNA Quantification Master mixes which enable your assays to discriminate miRNA differences—even by one SNP
- Open Platform
 Instrumentation validated for all
 major manufacturer kits as well
 as Agilent reagents

GREATER RESISTANCE TO INHIBITORS

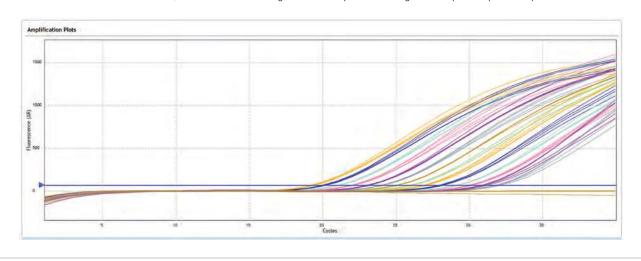
FIG. 1 Five Color Standard Curve Data by Fluor

9		5	Standard Curve					
	orescence m	AR AR	n					
			*					
an	get Inform	nation Table		_				
	Target	Efficiency	R ²	Slope	Intercept			
	FAM	96.47	0.998	-3.41	22.06			
	HEX	97.53	0.999	-3.383	22.52			
					10-000			
	ROX	101.54	0.999	-3.286	21.75			
	ROX CY5	101.54 99.84	0.999	-3.286 -3.326	21.75			

FIG. 2 SYBR Green Assay—Amplification and Standard Curve Plots Showing Sensitivity Measuring a Two-Fold Change



The standard curve consisted of nine, ten-fold dilutions starting with 1x10° copies and ending at two copies. Amplification plots are below.



SPEED

BRILLIANT HRM ULTRA-FAST LOCI MASTER MIX

Fast chemistry to confidently identify hard-to-detect genotypes.

High Resolution Melt Application

High resolution melt analysis (HRM) is a quick method to monitor and record the melt profile of amplicons in a sample, post-PCR. HRM's high sensitivity can detect even the smallest of melting temperature changes like those caused by singlebase changes, nucleotide repeats and small deletions in DNA.

Some of the more common applications of HRM include: genotype confirmation, mutation identification and screening, clone confirmation and methylation analysis.

HRM is often used at hypervariable loci to find hard-to-detect base changes. In contrast to TaqMan assays, which can easily miss new or unknown mutations, HRM can detect any mutation between two primers in the assay. HRM also cost-effectively resolves small changes while maintaining melting temperature control.

Brilliant HRM Ultra-Fast Loci Master Mix Advantages

- Mix and Go MgCl₂ and dNTPs are included.
- **Better stability** Stable after multiple freeze thaws, reducing wastage and increasing batch-to-batch reliability.
- **Fast-Start Taq** Three-minute activation time for the proprietary mutant Fast-Start Taq polymerase.
- EvaGreen Release-on-Demand based dye

Non-toxic and can be added at saturating concentrations—insuring minimal inhibition while preserving high sensitivity.

• **Platform independent** Use with any HRM-capable thermocycler.

High-Performance Agilent HRM Options:



Brilliant HRM Ultra-Fast Loci Master Mix Faster HRM on any platform with total confidence



Complete AriaMx HRM Solution The fastest way to confidently identify hard-to-detect genotypes

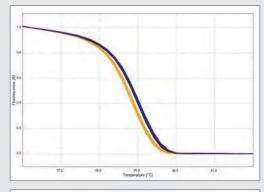


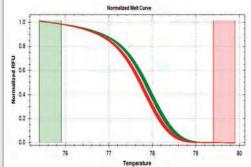
Agilent HRM Ultra-Fast Loci Master Mix

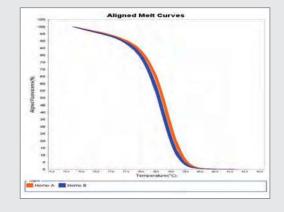
For the scientist looking to quickly "mix-and-go" with greater confidence, Agilent now offers the Brilliant Ultra-Fast Loci Master Mix as a stand alone reagent—validated to work on your existing instrumentation. Although optimized for Agilent's AriaMx, the master mix also works on most major manufacturer instrumentation.

The HRM Ultra-Fast Loci Master Mix combines a fast-start mutant taq polymerase, MgCl₂ buffer optimized for most HRM reactions, dNTPs and an EvaGreen low toxicity dye, considered the most reliable for HRM.

FIG. 3 HRM of SNP Rs9939609 (FTO) Using Brilliant HRM Master Mix on Three Different Instruments







Panel A (Agilent AriaMx qPCR System)

SNP identified using Brilliant HRM Master Mix on Agilent's AriaMx qPCR Instrument.

Panel B (Competitor B)

The same SNP identified using Brilliant HRM Master Mix on Competitor B qPCR Instrument.

Panel AB (Competitor AB)

The same SNP identified using Brilliant HRM Master Mix on the Competitor AB qPCR Instrument.

ぷSPEED

BRILLIANT HRM ULTRA-FAST LOCI MASTER MIX Complete HRM Solution for total confidence

in your data.

Intuitive HRM Software

Agilent includes fully featured software for HRM analysis which contains several benefits over other software packages with respect to plate set up, analysis and reporting (Table 1). Unlike competitive HRM software, Agilent HRM software comes standard with the AriaMx Real-Time PCR System—included with the instrument at no charge.

The Agilent platform's speed advantage over the competition is due to fast scan times and an algorithm used to interpolate the maximum T_m peak value. Other platforms report the highest melt peak value observed during the run, requiring additional scans to obtain an equivalent answer.

Part Number	Description					
5190-7827	Brilliant III HRM Ultra-Fast Loci Master Mix					
5190-7702	AriaMx HRM Calibration Kit					

Table 1. Comparison of Instrument Software for HRM Analysis

Feature	In	strume	nt
	A (AriaMx)	В	AB
Set up replicates quickly using "smart-rules- based" software		•	
Use files from a previously-run experiment as a template			
Use a highlighting feature to link plots to the results table for easier analysis			
Hover over each plot to reveal key data (e.g. X, Y coordinates, replicate number, dye channel)			

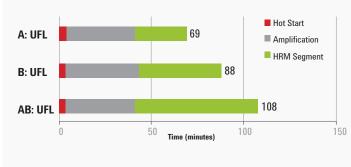




Agilent Complete HRM Solution

For researches ready for a change in genotyping speed and confidence, Agilent offers a complete solution: **HRM Master Mix**, an **instrument** and **analysis software.**

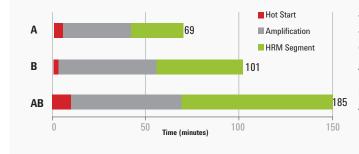
FIG. 4 Agilent AriaMx qPCR Instrument is > 20% Faster than Competitor Instruments



This graph shows the time required to identify the Class IV SNP Rs9939609 FTO with the Brilliant HRM Ultra-Fast Loci Master Mix (UFL) on three different qPCR instruments. The assay consisted of a hot start, 40 cycles of qPCR amplification and a high resolution melt segment. The time differences observed are due to: 1) differences in instrument scanning speeds, 2) the number of measurements over the temperature profile, and 3) Taq polymerase's activation time.

A: AriaMx instrument with Brilliant HRM Master Mix
B: Competitor B qPCR instrument with Brilliant HRM Master Mix
AB: Competitor AB qPCR instrument with Brilliant HRM Master Mix

FIG. 5 Agilent Complete HRM Solution is > 30% Faster than Competing HRM Solutions



This graph shows the time to identify the Class IV SNP Rs9939609 FTO on three competing qPCR instruments with manufacturer's respective HRM chemistries. Manufacturer's recommended HRM protocols were used.

- A: Agilent AriaMx qPCR Instrument with Agilent Brilliant HRM Ultra-Fast Loci Master Mix
- **B:** Competitor B qPCR instrument and competitor B's HRM Master Mix
- AB: Competitor AB qPCR instrument with competitor AB's HRM Master Mix

Using Agilent's complete HRM solution, **the time to correctly identify the most difficult-to-detect genotypes can be cut in half** (Figure 5). The longest run time (185 minutes) was on the AB instrument with the AB reagents. In contrast, on the Agilent AriaMx instrument with the Brilliant HRM Ultra-Fast Loci Master Mix, the same result was obtained in only 69 minutes. Now researchers can identify difficult-to-detect genotypes much faster than any other 96 well plate based solution—with ease and confidence.

MODULAR OPTICAL CARTRIDGES The first real-time PCR system with optics contained in modular cartridges, the AriaMx allows for less cross talk between channels resulting in improved data resolution.





Ready, Go!

AriaMx comes calibrated straight from the factory. Calibration is only necessary if future modules are added. Now you can be confident you are measuring biological variation over the instrument's life.

Key Features

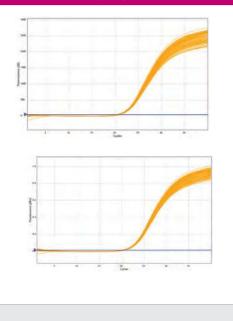
- Expandable and upgradeable in the lab
- No reference channel needed
- "Set it and forget it" calibration
- Future-proof
- Accommodate as many or as few optic channels as you require

With optical cartridges that have no need for a reference channel, the tight calibration of the cartridges and steady emission wavelengths from the instrumentation provide consistent data with every run.

SPEED. AGILITY. PRECISION.



FIG. 6 Validation Run With No ROX Reference (Above) and With ROX Reference (Below)*



AGILITY

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UPGRADE YOUR
TIMETABLE
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When detecting biologically relevant changes, which occur at low thresholds, instrument sensitivity is critical. The SYBR uniformity curves at left were generated as part of the AriaMx validation on the same day. Both begin at cycle seven and end at cycle 17.

*Sigma multiplier was set to 19 for both runs. Adaptive smoothing was also on for the baseline graph. dR, SD = 0.13 Cq for both runs.

Better multiplexing: Don't sacrifice time, samples or reagents

We know you're always looking to maximize information obtained from rare samples. Multiplexing is one solution to getting answers in the least amount of time. However, multiplexing often requires extensive optimization of reagents, which can be expensive in both time and reagent costs and is quickly becoming an impractical method. Agilent's Brilliant Master Mixes allow you to normalize your results with internal controls, providing the most accurate quantification possible.

Agilent Brilliant Multiplex qPCR Master Mixes

Providing sensitive, real-time amplification, Agilent Brilliant Multiplex qPCR Master Mix allows the use of internal controls to provide normalization within each reaction while reducing time and reagent costs. The Brilliant Multiplex qPCR Master Mix provides amplification of up to four targets per reaction, and each requires far less template than if performed in four separate reactions. Moreover, the sensitivity remains equivalent to that seen in single-plex.

Agilent Complete Multiplex Solution

AriaMx delivers answers from multiplexing experiments faster than most thermocyclerbased platforms. Get ready for an improvement in time-to-results and accuracy.

Part Number	Description
600880	Brilliant III Ultra-Fast QPCR Master Mix for Multiplex Reactions
600884	Brilliant III Ultra-Fast QRT-PCR Master Mix for Multiplex Reactions

PRECISION

Advanced, yet easy-to-use **SOFTWARE** with proprietary algorithms accompany AriaMx's precision chemistry and thermocycling capability.



Easy Touchscreen Set-Up

Simple-to-use, feature-rich touchscreen allows you to set up runs with the touch of a finger.

21 CFR Part 11 compatible features are available by licensing ET software.

FIG. 7 Easy-to-access Plate and Well Maps



Plate Maps at Your Fingertips

Program at the plate and well level simply hover over a well, and its details will open in a new window.

New Software Features

- Touchscreen Set-Up
- Onboard Diagnostics
- Remote Monitoring
- Base software included with instrument purchase



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AriaMx Software helps you control experimental bias due to differences in amplification efficiencies through a proprietary algorithm—resulting in higher accuracy.

Pre-programmed Assays

Pre-programmed assays allow for easy selection of calibrators, normalizers and sample associations.

- Quantitative PCR
- Allele Discrimination
- Comparative Quantification
- High Resolution Melt

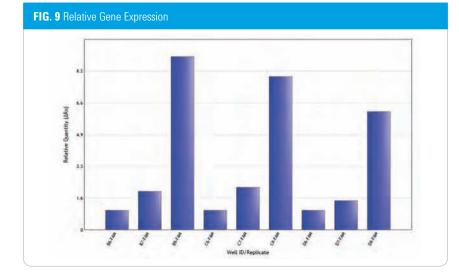
In high throughput gene expression studies, standard curves are not used. Relative quantity calculation is automated using the Comparative Quantitation module in the AriaMx Software. See Figure 8 for details.

Multiple, Customizable Data Analysis Algorithms

Identify NGS Bias and Fragment Drop

Accurate NGS library quantification is crucial for determining sequencing efficiency and data quality.

Combine the AriaMx System with the Agilent Bioanalyzer for a powerful gene expression and nextgen sequencing solution. See www.agilent.com/genomics/ bioanalyzer for more details.



Easy Reporting

Easily export raw data in multiple formats with the touch of a finger. Select only those datasets you want displayed using custom data reports:

- Plate Set-Up
- Experimental Thermal Profile
- Raw Data Plots
- Analysis Criteria
- Amplification Plots
- Allele Determination
- Graphical Displays
- Tabular Results
- Experimental Notes

FIG. 10 Report Configuration

Definition	Default	*
Report Type	PDF	PowerPoint
tems		
Cover Pa	ge 💉	
Plate Set	up	
Thermal	Profile	
Raw Data	Plots	
Analysis	Criteria	
Amplifica	tion Plots	
Melt Raw	Derivative Cu	rve
Consolida	ated Plots	
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• SERVICES

Give your research the attention it deserves. Regain time lost on peripheral tasks and focus on the critical processes that keep your lab competitive and successful.

- Speedy delivery for critical parts
- Dedicated instrument support for fast issue resolution

More Reliable Results and Achievements

Agilent service agreements, preventative maintenance, and compliance services are sold to you at the system level, assuring all modules of your system are covered.

Confidence, Not Compromise

Agilent's service group stands behind every instrument, giving you confidence in equipment functionality and data. Agilent has one global focal point: providing our customers with the best service available worldwide. It's no wonder that over 70% of our service employees stay with Agilent for over five years. Equipped with calibrated and traceable tools, our service technicians verify your equipment is running at maximum performance. Agilent hardware and software gualification protocols ensure rapid conflict resolution. Specialized remote monitoring (free to activate as needed) allows Agilent's service group to troubleshoot your instrument directly from the lab, providing confidence at every turn.

Breadth of Services

Agilent's professional services team has been called upon for our support with customized training, systems and enterprise integration, workflow design, special engineering projects, protocol development, and project management. We have conducted over 100,000 successful system qualifications worldwide, and our genomics professionals operate in 65 countries.

Rapid Assistance

Whatever the challenge, Agilent's broad resources address your needs. Expect reduced repair time with:

- Call Center: Rapid assistance with instrumentation, reagents, applications, and protocols requires a vast knowledge of a variety of chemistries. That's why our technical support professionals are PhD scientists with genomics experience just like you.
- Detailed Asset Information: Agilent's tracking system provides critical information on instrument usage, resulting in quicker solutions.
- Wireless Technology: Enables our service team to provide instant access to a database of information and resources.
- Remote Monitoring: Instrument health monitored remotely for greater troubleshooting flexibility.

Warranty and Multi-Year Upfront Coverage

Each AriaMx has a global warranty, including the standard warranty for the country of purchase. If moved to another country, the destination country's standard warranty will apply to the instrument.*

Services available for purchase with AriaMx include:

- Return to Agilent (RTA): This may be accomplished with a loaner instrument, exchanging out your instrument, or direct return of your instrument to Agilent.
- Installation and Familiarization (I&F): Have an Agilent Field Service engineer or member of our team install and familiarize you with the AriaMx.
- Standard Preventative Maintenance (PM): Agilent is available to run routine maintenance check-ups on your instrument annually to ensure peak performance for the upcoming year.**
- Extended Preventative Maintenance: Conducted annually on your instrument and includes thermal block tests to evaluate uniformity and precision.**
- Silver Service Package: Bundled service including Standard Preventative Maintenance checkups and the Return to Agilent (RTA) program, if necessary.



2 year base warranty sold with the instrument. Additional coverage can be purchased at a minimal cost.

2 YEARS	+1 YEAR	+2 YEARS	+3 YEARS
Initial Warranty Sold with instrument (covers 2 years)	,	Extended Warranty 4 Adds additional year (covers 4 years) 8D4	Extended Warranty 5 Adds additional year (covers up to 5 years) 8D5

* Except for on-site warranty where Agilent does not have an applicable product-specific support presence or authorized representative in that country.

** Unless a service contract is in place, parts replaced outside the scope of preventative maintenance will be charged as a repair event (this includes the engineer's time and materials).

SPECIFICATIONS

Feature	Description
Excitation Source	8 dye specific LEDs per optical module
Detection Sources	8 photodiodes
Optical Cartridges	SYBR/FAM HEX ROX CY3 CY5 ATTO 425 6 slots, swappable optical modules (additional modules will be made available in 2016)
Dye Selection	Excitation and emission
Reaction Volume	10µL to 30µL
Chemistries Supported	SYBR, Probe, HRM
Thermal System	Six Peltiers made from two ceramic plates with semi-conductor elements, 96 well
Thermal System Temperature Range	25.0 – 99.9°C Heating: 6.0°C/sec Cooling: 3.0°C/sec (Median), 2.5°C/sec (Average) Accuracy: ± 0.2°C or better at typical annealing, amplification, and denaturation temperatures
Dynamic Range	9
Experiment Types	Quantitative PCR with dye, Quantitative PCR with probe, Allele Discrimination with HRM, Allele Discrimination with probe, Comparative Quantitation, User Defined
Multiplex	Difference in Ct between single-plex and multiplex assay wells is <0.7
Data Acquisition Time	<3 seconds for all
Cq Uniformity	Cq St Dev <0.20 at fast cycling (5s 95°C/10s 60°C)
Electrical Power (input)	100 – 240VAC, 50/60Hz, 1100VA
Operating Environment	20 – 30°C, 20 – 80% non-condensing humidity, 7500 feet, max altitude
Weight	50 lbs. (23 kg)
Dimensions	19.7" W x 18.1" D x 16.5" H (50cm x 46cm x 42cm)
Sample Containers	96 well plates, strip tubes; 0.2mL tubes
Warranty	 2 year warranty is standard with the instrument purchase 5 year warranty and service packages available
Onboard Analytics	 Thermal, physical, interactive (sensors) tests Extended: 125 performance points tested in 30 minutes Start-up: 59 performance points tested in ~1 minute Optional bypass of both features
Services (upon request)	 Installation and familiarization Standard and Enhanced Preventative Maintenance Additional year warranty (+1 increments, up to 5 years coverage) Return-to-Agilent Instrument Exchange Program Thermal block verification
Operating System (for PC purchased separately)	Windows 7 Microsoft 2010 and 2013 compatible
Run Modes	 Stand alone PC connected LAN connected to PC (more than 20 instruments can be connected and monitored remotely) USB connected, external devices
Optical Module Calibration and Cleaning	 All channels can be tested and calibrated All attributes of optical channels are calibrated at the factory–LED light output, light path, mirror, and photodiode Optical modules can be cleaned in lab without Agilent technician or sending back to factory
Selected Applications	 Quantitative and qualitative gene expression analysis miRNA analysis Genetic mapping Genetic fingerprinting NGS library quantification 2-6 channel multiplex ability HRM analysis (including genotyping, mutational analysis, and class IV SNP detection) Pathogen quantification



QUICK REFERENCE

Useful Tools and Web Links

qPCR Decision Tree: Determine which qPCR reagents or enzymes best serve your needs.

Software Updates: Ensure your software is the most current version.

qPCR Methods and Applications Guide: Useful for both new and expert users.

Field Notes: Updates and quick tips on AriaMx, from new applications to protocols you can rely on.

TECHNICAL SUPPORT

Americas **qPCR@agilent.com | 800.227.9770**

Other regions, consult: www.agilent.com/genomics/contactus

ORDERING INFORMATION

Category	Part #	Description	Quantity	
Instrumentation	G8830A	AriaMx Real-Time PCR System (Base Instrument)	1	
	Option 010	Base Instrument (no filters)	1	
	Option 101	SYBR/FAM Optical Cartridge	1/pack	
	Option 102	ROX Optical Cartridge	1/pack	
	Option 103	HEX Optical Cartridge	1/pack	
	Option 104	CY3 Optical Cartridge	1/pack	
	Option 105	CY5 Optical Cartridge	1/pack	
	Option 650	AriaMx Software on HP Laptop	1	
Optical Modules	G8830-67001	SYBR/FAM Optical Cartridge	1/pack	
(sold without instrument)	G8830-67002	ROX Optical Cartridge	1/pack	
	G8830-67003	HEX Optical Cartridge	1/pack	
	G8830-67004	CY3 Optical Cartridge	1/pack	
	G8830-67005	CY5 Optical Cartridge	1/pack	
	G8830-67006	ATTO 425 Optical Cartridge	1/pack	
Plastics	401490	AriaMx 96 well plates, skirted and low profile	1 x 25/pack	
	401491	AriaMx 96 well plates, skirted and rigid	1 x 25/pack	
	401493	AriaMx strip tubes	8 x 120/pack	
	401494	AriaMx 96 well optical plates, non skirted, low profile	1 x 25/pack	
	401495	Strip caps	8 x 120/pack	
Reagents	SYBR			
	600880	Brilliant III SYBR Ultra-Fast qPCR Master Mix	400 rxns	
	600883	Brilliant III SYBR Ultra-Fast qPCR Master Mix	10 pack (10 x 400 rxns)	
	5190-7708	1 plate/pack		
	MULTI-PLEX			
	600553	Brilliant Multiplex qPCR Master Mix	200 rxns	
	HRM	·		
	5190-7827	Brilliant HRM Ultra-Fast Loci Master Mix	200 rxns	
	5190-7702	AriaMx HRM Calibration Kit	1 x 96-well plate	



FOR MORE INFORMATION www.agilent.com/genomics/ariamx

For Americas, call 800.227.9770 or for other regions, consult www.agilent.com/genomics/contactus

For a virtual demo, visit www.agilent.com/genomics/ariamxvideos For a live demo, call your Agilent sales representative.

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