




Proven qPCR performance is now within reach

Real-time PCR instruments



Choose the Life Technologies solution to match your budget and performance needs

Built on 20 years of industry-leading innovation, only the Applied Biosystems® real-time PCR portfolio can grow with your research needs.

From the simple reliability of the StepOne® systems to the unprecedented throughput of the QuantStudio™ 12K Flex system, no other lineup offers you more flexibility, scalability, and performance.



	StepOne®/StepOnePlus® systems	7500/7500 Fast systems	ViiA™ 7 system	QuantStudio™ 12K Flex system
Price	\$\$/\$\$	\$\$	\$\$\$	\$\$\$\$
Colors	3/4	5	6 colors (21 filter combinations)	6 colors (21 filter combinations)
Ease of use	•••••	•••	••••	•••••
Available blocks	48 / 96 -well	Fast 96-well	96-well, Fast 96-well, 384-well & TaqMan® Array Card	96-well, Fast 96-well, 384-well, TaqMan® Array Card & 3,072 through-hole OpenArray® Plate
Throughput	•/••	••	•••	•••••

StepOne® and StepOnePlus® systems

Our most affordable and simple real-time PCR solutions featuring 48- or 96-well blocks and 4-color Fast or standard cycling. Delivering high-quality results that are perfect for all levels of experience.



	StepOne® Real-Time PCR System	StepOnePlus® Real-Time PCR System
Easy-to-use, convenient, and intuitive software—provides quick-start functionality, remote monitoring, and email notification	✓	✓
Ultracompact footprint and PC-free operation—system fits most laboratory settings	✓	✓
Run fast—perform Fast PCR reactions typically in less than 40 minutes	✓	✓
Advanced optical system—Long-life LED-based system records fluorescence from FAM™/SYBR® Green I, VIC®/JOE™, and ROX™ dyes	✓	✓ (TAMRA™ dye also)
Powerful High Resolution Melt (HRM) software (optional)—perform more sophisticated melting analysis with an easy-to-follow workflow and minimal subjective data analysis	✓	✓
Flexibility—innovative VeriFlex™ technology enables convenient PCR optimization		✓
3-color, 48-well system—upgradable to StepOnePlus® system	✓	
4-color, 96-well system—delivers precise results		✓

7500 and 7500 Fast systems

The 7500 and 7500 Fast Real-Time PCR Systems offer the flexibility to meet a range of research needs, from basic research and diagnostics to human identification testing, as well as *in vitro* analysis and food testing. These systems give you the confidence you are looking for in your validated research applications.



Benefits	Description
Advanced optical system	CCD camera with halogen lamp excitation; 5 excitation and 5 emission filters.
Flexibility	Specialized optical system enables easy and accurate calibration to accommodate new dyes without the addition of new filter sets.
Superior multiplexing	Powerful multicomponenting algorithm minimizes spectral crosstalk.
Designed for validated applications	Validated 7500 and 7500 Fast Real-Time PCR Systems are available for human identification, food testing, and animal health applications.
Easy-to-use, intuitive software	Includes enhanced Gene Expression Study package.
21 CFR Part 11 Module (optional)	Powerful tool assists with 21 CFR Part 11 compliance while still offering the flexibility of user-customizable configuration settings.

ViiA™ 7 system

A step-up in productivity and flexibility, the ViiA™ 7 Real-Time PCR System features interchangeable blocks in 96-well, Fast 96-well, 384-well, and TaqMan® Array formats, plus 6 colors (21 filter combinations).



Benefits

Description

Accomplish more, faster

Run hundreds of real-time PCR reactions effortlessly using TaqMan® Array Microfluidic Cards, optimized with the ViiA™ 7 system. Integrated with the Twister™ II robot, the ViiA™ 7 system maximizes productivity for automated environments.

Skip the learning curve

The intuitive software, easy touch-screen setup, automation integration, and effortless block exchange of the ViiA™ 7 system are designed to let you get started right away.

Get results you can trust

Improved well-to-well and instrument-to-instrument data accuracy with the OptiFlex® system features 21 filter combinations for maximum multiplexing and chemistry flexibility.

Quality data analysis tools

Tools to enhance your research at your fingertips, such as 21 CFR Part 11 compliance, include:

- The optional SAE module assists with security, auditing, and electronic signature (SAE) of records for full data traceability
- High Resolution Melt (HRM)—using the built-in MeltDoctor™ protocols and calibrations, you can spend less time optimizing the run and more time customizing your results, and define the number of variants you want to see by quickly changing analysis settings

QuantStudio™ 12K Flex system



Delivering our highest throughput, flexibility, and scalability, the QuantStudio™ 12K Flex Real-Time PCR System features 5 interchangeable blocks to support 96-well, Fast 96-well, 384-well, TaqMan® Array Card, and OpenArray® formats. You can now analyze from 1 to over 12,000 data points per run in an assay format that is right for your project.

Benefits	Description
Superior scalability	With five interchangeable thermal cycling blocks, you can analyze from 1 to 12,000 data points per run in the assay format that's right for your project.
Maximum multiplexing & chemistry options	Proven fluorescence detection with enhanced OptiFlex® technology (i.e., white light LED and 6 colors [21 filter combinations]) offers extremely accurate and sensitive data collection.
Seamless switch from qPCR to digital PCR	Increase the precision and sensitivity of your experiments by interchanging real-time PCR and digital PCR applications using QuantStudio™ digital PCR kits and DigitalSuite™ software with OpenArray® blocks.
Simple, high-throughput, and fast OpenArray® workflow	Easily load your samples in the AccuFill™ system, then run up to 4 OpenArray® plates simultaneously to generate over 12,000 data points in each run.
Unparalleled throughput	When equipped with the OpenArray® block, Twister® II automation robot, and several GeneAmp® PCR System 9700 thermal cyclers, you have the capacity to analyze more than 2 million data points per day.
Increase data integrity, quality control and results you can trust	Integrated sample tracking and security, auditing, and electronic signature (SAE) module to assist in 21 CFR compliance.

TaqMan® Assays and reagents

The TaqMan® Assay portfolio is the most comprehensive set of products available for your real-time PCR research—from off-the-shelf, gene-specific probe and primer sets, to custom probes and primers manufactured with your desired sequences, as well as master mixes and everything in between.

All our assay products use TaqMan® probe-based chemistry—the gold standard in allelic discrimination and quantitative gene expression—offering high sensitivity, specificity, and reproducibility, along with broad dynamic range. To get from sample to result, a wide range of instruments and reagents tailored for quantitative PCR offer unrivaled performance for both routine and challenging applications.

Gene expression analysis

TaqMan® Gene Expression Assays offer 1.3 million primer/probe sets for 23 species and selected pathogens, with your choice of FAM™ or VIC® dye labels. TaqMan® Custom Plus and standard Custom Assays enable you to study the expression of any gene or splice variant in any organism.

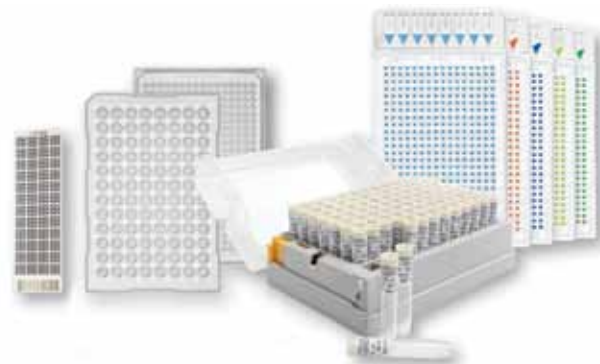
Drug metabolism genotyping

Choose from 2,700 unique TaqMan® Drug Metabolism Genotyping Assays to detect polymorphisms in all known high-value DME pharmacogenetics markers, including PharmaADME core markers.

MiRNA and noncoding RNA analysis

Innovative TaqMan®-based products and related tools, for miRNA and noncoding RNA research from isolation through discovery.

- Long noncoding RNA quantification
- miRNA profiling
- pri-miRNA quantification
- Small RNA quantification
- Targeted miRNA quantification



Protein expression

Revolutionary TaqMan® Protein Assays enable fast, easy identification and relative quantification of protein markers from limited quantities of cultured cells. Choose from predesigned assays, or create your own using your antibodies.

SNP genotyping

Choose from 4.5 million predesigned human and mouse TaqMan® SNP Genotyping Assays, or Custom TaqMan® SNP Genotyping Assays, in various sizes.

Copy number variation

TaqMan® Copy Number Assays provide over 1.6 million predesigned assays for complete human genome coverage and over 180,000 assays targeting mouse gene exons, as well as Custom Plus and standard Custom Assays.

Somatic mutation detection

Using castPCR™ technology, TaqMan® Mutation Detection Assays detect and measure somatic mutations in genes associated with cancer.

Experience qPCR ownership at the highest level

The Life Technologies Total Ownership Program for real-time PCR instruments

From finding the right systems for your research and your budget, to installation and maintenance, all the way through setup and scientific discovery, you can experience all that owning an Applied Biosystems® real-time PCR system has to offer. Through the Life Technologies Total Ownership Program, we can help you reach your goals faster and more effectively and see you take the value of your instrument to the highest level.



LSIA 2011 Awards—Most Responsive Customer Service & Most Knowledgeable Technical Support

Financing and leasing options

We offer a variety of flexible financing options to meet your unique budget requirements, including flexible leasing and payment plans that match your business objectives. To find the right financial solution for you, email dealdesk@lifetech.com or contact your Life Technologies qPCR instrument representative (May be subject to credit approval. Other terms and conditions apply.).

Trade-in programs

As your lab changes, so do your research needs. Get the most value out of your instrument with trade-in programs that make it easy for you to scale your system to match your research. Take advantage of exceptional trade-in savings and service contract extensions when you purchase a new instrument.

Award-winning service

Life Technologies offers flexible service plans to fit your laboratory requirements and your budget. Give yourself the peace of mind that comes from knowing that for 30 years our highly trained, certified service engineers have used the latest technology to quickly diagnose and fix your real-time PCR instruments.

To learn more about our service and support plans, please contact the Remote Service Center by email at instrumentservices@lifetech.com or call 800-327-3002 (choose options 4, 1).

Instrument operation & applications training

Get hands-on lab experience and expand your working knowledge of real-time PCR instrument operation and applications with training courses offered at Life Technologies Application Support Centers located throughout the world.

To learn more about the training programs available in your region, go to learn.appliedbiosystems.com or contact us at customertraining@lifetech.com.

Technical resources

An award-winning team of technical application scientists is available to assist you with your real-time PCR questions by phone, email, or chat (available in North America).

Go to lifetechnologies.com/technicalsupport for online technical assistance or to find the contact details for the technical applications team in your region.

Ordering information

StepOne® and StepOnePlus® Real-Time PCR Systems	Cat. No.
StepOne® Real-Time PCR System	4376357
StepOne® Real-Time PCR System with Laptop	4376373
StepOne® Real-Time PCR System with Tower	4376374
StepOnePlus® Real-Time PCR System Upgrade Kit	4379216
StepOnePlus® Real-Time PCR System	4376600
StepOnePlus® Real-Time PCR System with Laptop	4376598
StepOnePlus® Real-Time PCR System with Tower	4376599
High Resolution Melt Software v3.0, 1 License	4461357
High Resolution Melt Software v3.0, 10 Licenses	4461456
7500 Real-Time PCR System	
7500 Real-Time PCR System with Laptop	4351104
7500 Real-Time PCR System with Tower	4351105
7500 Real-Time PCR System SDS v1.4 21 CFR Part 11 Module	4377354
7500 Fast Real-Time PCR System	
7500 Fast Real-Time PCR System with Laptop	4351106
7500 Fast Real-Time PCR System with Tower	4351107
7500 Fast Real-Time PCR System SDS v1.4 21 CFR Part 11 Module	4377355
High Resolution Melt Software v3.0, 1 License	4461357
High Resolution Melt Software v3.0, 10 Licenses	4461456
ViiA™ 7 Real-Time PCR System	
ViiA™ 7 Real-Time PCR System with 384-Well Block	4453536
ViiA™ 7 Real-Time PCR System with TaqMan® Array Block	4453537
ViiA™ 7 Real-Time PCR System with Fast 96-Well Block	4453535
ViiA™ 7 Real-Time PCR System with 96-Well Block	4453534
ViiA™ 7 System Automation Accessory Robot (Twister®) (100–240 V)	4453551
384-Well Block Upgrade Kit	4453545
TaqMan® Array Upgrade Kit	4453546
Fast 96-Well Block Upgrade Kit	4453544

ViiA™ 7 Real-Time PCR System (cont.)		Cat. No.
96-Well Block Upgrade Kit		4453543
ViiA™ 7 Software HRM Module		4453724
ViiA™ 7 Software 21 CFR Part 11 Module		4453723
QuantStudio™ 12K Flex Real-Time PCR System with Laptop		
QuantStudio™ 12K Flex System with 96-Well Block		4471050
QuantStudio™ 12K Flex System with Fast 96-Well Block		4471080
QuantStudio™ 12K Flex System with 384-Well Block		4471081
QuantStudio™ 12K Flex System with TaqMan® Array Card Block		4471085
QuantStudio™ 12K Flex System with OpenArray® Block		4471086
QuantStudio™ 12K Flex Real-Time PCR System with Tower		
QuantStudio™ 12K Flex System with 96-Well Block		4471087
QuantStudio™ 12K Flex System with Fast 96-Well Block		4471088
QuantStudio™ 12K Flex System with 384-Well Block		4471134
QuantStudio™ 12K Flex System with TaqMan® Array Card Block		4471089
QuantStudio™ 12K Flex System with OpenArray® Block		4471090
Block upgrades		
OpenArray® Block Upgrade		4471091
96-Well Block Upgrade Kit		4453543
96-Well Fast Block Upgrade Kit		4453544
384-Well Block Upgrade Kit		4453545
TaqMan® Array Block Upgrade Kit		4453546
QuantStudio™ AccuFill™ Upgrade Kit		4471022
QuantStudio™ 12K Flex Real-Time PCR System accessories		
QuantStudio™ 12k Flex, Automation Robot		4471066
Dual Flat Block GeneAmp® PCR System 9700		4428234
Dual Flat Block GeneAmp® PCR System 9700, Sample Module Only		4425757
OpenArray® Block Upgrade with AccuFill™ System		4471067
QuantStudio™ AccuFill™ System		4471021

For more information about these Applied Biosystems® real-time PCR systems,
go to lifetechnologies.com/abqpcr

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