



Systems that set the standard, software that's a step ahead.

Lead the way with a Stratagene personal QPCR system featuring enhanced MxPro™ QPCR Software.

Our Mx3000P® and Mx3005P™ personal quantitative PCR (QPCR) Systems combine an advanced optical system with powerful data analysis to give you complete flexibility at an affordable price. Our open platform design supports traditional and advanced applications as well as newly emerging QPCR chemistries. In addition, our MxPro™ QPCR Software combines leading edge data analysis algorithms with intuitive organization designed for ultimate ease-of-use.

- Four- or five-color systems to best fit your research needs
- 96-well thermal block with temperature uniformity of +/- 0.25°C
- New MxPro™ QPCR Software with optional features for 21 CFR Part 11 compatibility

**Need More Information? Give Us A Call:**

**Stratagene US and Canada**  
Order: 800-424-5444 x3  
Technical Service: 800-894-1304 x2

**Stratagene Japan K.K.**  
Order: 3-5821-8077  
Technical Service: 3-5821-8076

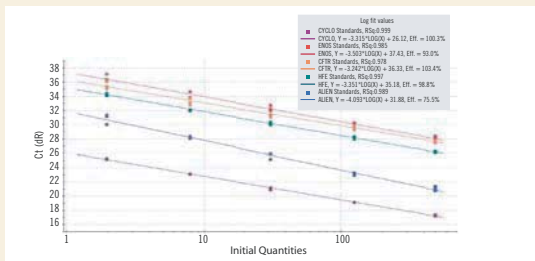
**Stratagene Europe**  
Order: 00800-7000-7000  
Technical Service: 00800-7400-7400

[www.stratagene.com](http://www.stratagene.com)

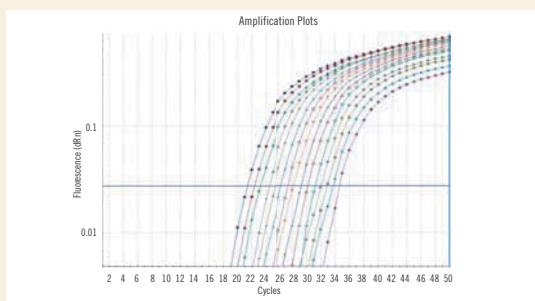
Mx3000P® is a registered trademark of Stratagene in the United States.  
Mx3005P™ and MxPro™ are trademarks of Stratagene in the United States.

**STRATAGENE**

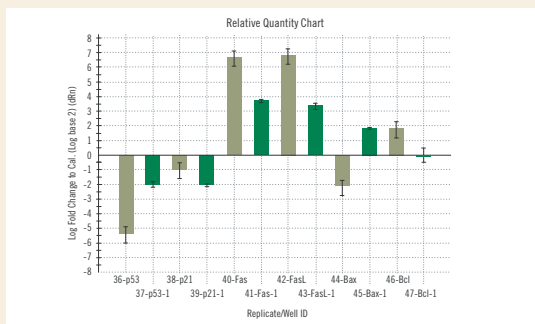
An Agilent Technologies Company



**Figure 1**  
**Five-plex (target) Standard Curves**  
Three replicates of four-fold dilutions of QPCR Human Universal Reference cDNA detecting five gene targets simultaneously. Detection from the highest abundance to the lowest abundance gene target (CYCLO to ENOS gene targets) spans a Ct range of 17-37 (delta Ct = 20).



**Figure 2**  
**Two-fold Dilution Series**  
Dilution series from 20,000 to 1.2 copy equivalent of plasmid containing  $\beta$ -actin detected with a molecular beacon. Average delta Ct between dilutions is 0.95 cycles.



**Figure 3**  
**Automated Analysis of Gene Expression Data**  
Comparative Quantitation module in our MxPro™ Software automatically calculates relative quantity for gene expression experiments. In the figure above, fold expression change for six genes across two treatments is displayed.

**Choice of Filters Included**

ALEXA Fluor® 350 (350 nm-440 nm)	Cy™3 (545 nm-568 nm)
FAM™/SYBR® Green I (492 nm-516 nm)	TAMRA™ (556 nm-580 nm)
TET™ (517 nm-538 nm)	ROX™/Texas Red® (585 nm-610 nm)
HEX™/JOE™/VIC™ (535 nm-555 nm)	Cy™5 (635 nm-665 nm)

**Instrument:**

- + Excitation: Quartz tungsten-halogen lamp via scanning fiber optics
- + Detector: Single photomultiplier tube (PMT) via scanning fiber optics
- + Filters: Customizable filter wheels with four (Mx3000P® system) or five (Mx3005P™ system) user-selected filter sets
- + Thermal system: Solid state, Peltier-based, 96-well block thermal system
- + Sample format: Standard 96-well plates, 8-strip tubes, 200- $\mu$ l tubes, optimized for 25- $\mu$ l reactions
- + Embedded computer collects and saves experiment data during power failure or computer crash
- + Dimensions: 13" (33 cm) W x 18" (46 cm) D x 17" (43 cm) H, Weight: 45 lbs. (20.4 kg)
- + Power: 100 to 230 VAC +/- 10%, 50/60 Hz

**System Performance:**

- + Linear dynamic range: 10 orders of magnitude, standard curve method
- + Excitation range: 350 to 750 nm
- + Emission range: 350 to 700 nm
- + Temperature uniformity: +/- 0.25°C at 72°C
- + Thermal block ramp rate: Up to 2.5°C/second
- + Amplification rate: Standard 40-cycle, two-step QPCR reaction completed in 90 minutes; reaction is completed in 60 minutes using FullVelocity™ SYBR® Green QPCR reagents (without dissociation curve)
- + Discrimination: Distinguish samples with 5,000 and 10,000 template copies with a 99.7% confidence level
- + Detection down to single-copy equivalents

**MxPro™ QPCR Software:**

- + Interfaces with Mx3000P® and Mx3005P™ Systems simultaneously and supports up to six systems in any combination attached to a single computer
- + Streamlined plate setup with dye editing dropdown menu
- + Right mouse-click capability throughout the software to allow quicker and easier access to menu functions
- + The Comparative Quantification module generates and displays normalized fold change values on a chart using a base 2 logarithmic scale
- + Gene expression fold change is displayed with upper and lower limit error bars based on replicate variability for up to four targets normalized to a single reference gene with efficiency corrections for each gene target
- + View amplification plots and standard curves for up to five targets on the same screen with threshold changes instantly updated on the standard curve
- + Improved text reports display target-specific data analysis parameters at the top of each report and allow for customization through adding/removing columns and enhanced sorting capability
- + Export any data set directly into .xls, .ppt, .bmp, .txt, or .xml format. Charts and graphs can be exported directly to Microsoft® PowerPoint® and Excel®
- + Auto generation of charts and graphs in Excel® during export
- + Create custom consolidated data reports by selecting which analysis screens to include and how the report will organize the data
- + Optional 21 CFR Part 11 compatible features including secure application login, database file management, electronic audit trail functionality, and report generation

**Contact us for more information on our QPCR Systems:**

<b>Stratagene US and Canada</b> Order: 800-424-5444 x3 Technical Service: 800-894-1304 x2	<b>Stratagene Japan K.K.</b> Order: 3-5821-8077 Technical Service: 3-5821-8076
<b>Stratagene Europe</b> Order: 00800-7000-7000 Technical Service: 00800-7400-7400	<a href="http://www.stratagene.com">www.stratagene.com</a>

**Mx™ Quantitative PCR Systems:**

Mx3005P™ Quantitative PCR System (110v) with notebook computer	401449
Mx3005P™ Quantitative PCR System (110v) with desktop computer	401456
Mx3005P™ Quantitative PCR System (230v) with notebook computer	401457
Mx3005P™ Quantitative PCR System (230v) with desktop computer	401458
Mx3000P™ Quantitative PCR System (110v) with notebook computer	401403
Mx3000P™ Quantitative PCR System (110v) with desktop computer	401405
Mx3000P™ Quantitative PCR System (230v) with notebook computer	401406
Mx3000P™ Quantitative PCR System (230v) with desktop computer	401407
MxPro® Software with 21 CFR Part 11 Features	Inquire



ALEXA Fluor® 350 is a registered trademark of Nanoprobes, Inc.  
SYBR® are registered trademarks of Molecular Probes.  
FAM™, TET™, HEX™, VIC™, JOE™, TAMRA™, and ROX™ are trademarks of Applied Biosystems Corporation or its subsidiaries in the US and certain other countries.  
Cy™3 and Cy™5 are trademarks of Amersham Biosciences.  
Microsoft®, PowerPoint® and Excel® are registered trademarks of Microsoft Corporation in the United States and/or other countries.

For a list of worldwide distributors, please visit [www.stratagene.com](http://www.stratagene.com)

For Research Use Only. Not for use in diagnostic procedures.