## Rotor-Gene<sup>®</sup> Q Installation Guide

For use with Rotor-Gene Q Software

version 2.3.4 or above

**Revision 2** 



# Sample & Assay Technologies

## **QIAGEN Sample and Assay Technologies**

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- Purification of DNA, RNA, and proteins
- Nucleic acid and protein assays
- microRNA research and RNAi
- Automation of sample and assay technologies

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### Product Warranty and Satisfaction Guarantee

QIAGEN guarantees the performance of all products in the manner described in our product literature. The purchaser must determine the suitability of the product for its particular use. Should any product fail to perform satisfactorily due to any reason other than misuse, QIAGEN will replace it free of charge or refund the purchase price. We reserve the right to change, alter, or modify any product to enhance its performance and design. If a QIAGEN<sup>®</sup> product does not meet your expectations, simply call your local Technical Service Department or distributor. We will credit your account or exchange the product — as you wish. Separate conditions apply to QIAGEN scientific instruments, service products, and to products shipped on dry ice. Please inquire for more information.

A copy of QIAGEN terms and conditions can be obtained on request, and is also provided on the back of our invoices. If you have questions about product specifications or performance, please call QIAGEN Technical Services or your local distributor (see back cover or visit <u>www.qiagen.com</u>).

### **Technical Assistance**

At QIAGEN, we pride ourselves on the quality and availability of our technical support. Our Technical Service Departments are staffed by experienced scientists with extensive practical and theoretical expertise in sample and assay technologies and the use of QIAGEN products. If you have any questions or experience any difficulties regarding Rotor-Gene Q instruments or QIAGEN products in general, please do not hesitate to contact us.

QIAGEN customers are a major source of information regarding advanced or specialized uses of our products. This information is helpful to other scientists as well as to the researchers at QIAGEN. We therefore encourage you to contact us if you have any suggestions about product performance or new applications and techniques.

For technical assistance and more information, please see our Technical Support Center at <u>www.qiagen.com/Support</u> or call one of the QIAGEN Technical Service Departments or local distributors (see back cover or visit <u>www.qiagen.com</u>).

## Introduction

### About this installation guide

This installation guide describes how to set up Rotor-Gene Q instruments before first use.

**Note**: The term Rotor-Gene Q used in this installation guide applies to all Rotor-Gene Q and Rotor-Gene Q MDx instruments (not available in all countries) unless otherwise described.

**Note**: Before using Rotor-Gene Q instruments, make sure to read the user manual provided with your instrument and pay particular attention to the safety information.

Information about Rotor-Gene Q instruments is provided in the following sections:

- Unpacking the Rotor-Gene Q
- Hardware Installation
- Installing Rotor-Gene Q Software
- Connecting the Laptop/Computer to the Rotor-Gene Q
- Launching Rotor-Gene Q Software

### **Configuration for Windows 7 security**

The laptop computers that are provided by QIAGEN for use with your Rotor-Gene Q MDx instrument have Microsoft Windows 7 pre-installed and are configured with a standard (non-administrative) Windows user account and with an administrator account. In routine usage of the system, the standard account shall be used, since Rotor-Gene Q software and the Rotor-Gene AssayManager version 1.0 or 2.1 are designed to run without administrator rights. The administrator account shall only be used to install the Rotor-Gene Q or the Rotor-Gene AssayManager version 1.0 or 2.1 software and a virus scanner (please see chapter for anti-virus software). Using the administrator account is indicated by a red desktop background. Please make sure that you always log-in as standard-user for routine use.

The default password of the administrator account is as follows: **Q1a#g3n!A6**. Please change the administrator password after first login. Please make sure that the password is secure and does not get lost. There is no password for the operator account.

If the laptop Administrator password is lost then we would advise you to contact Microsoft<sup>®</sup> for support.

If your configuration is different and no non-administrative account is contained, system administrators shall setup an additional standard Windows user account to prevent access to critical system areas, such as "Program Files", "Windows" directory (e.g. access to installation or uninstallation functionality, including applications, operating system components, date/time settings, Windows updates, firewall, user rights & roles, anti-virus activation), or performance relevant settings like power saving.

To create a standard user account in Windows 7, please follow these steps described in section "Creating a new user account".

1. Open the Windows control panel via the **Start** menu and select **User Accounts/Manage Accounts**.



2. Click Create a new account.

3. Name the account and select Standard User as the account type.



4. Click Create Account

### Unpacking the Rotor-Gene Q

The Rotor-Gene Q is delivered with all necessary accessories for instrument setup and for performing a run. A list of accessories is provided in the Rotor-Gene Q box.

Note: Check the items on this list to ensure that all accessories are present.

**Note**: Check that the instrument and delivered accessories are free from transport damage before installation.

The accessories box is on top of the foam packing. The accessories box contains:

- Rotor-Gene Q Installation Guide
- CD (software)
- CD (user manuals)
- Loading Block 96 x 0.2 ml Tubes
- Loading Block 72 x 0.1 ml Tubes
- Rotor Holder (dismantled for safe transport)
- **36-Well Rotor (this rotor is red in color)**
- 36-Well Rotor Locking Ring

The following items are packed on each side of the foam packing:

- USB and RS-232 serial cable
- International power cable set
- PCR Tubes, 0.2 ml (1000)
- Strip Tubes and Caps, 0.1 ml (1000)

When you have removed these accessories from the box, remove the foam packing on top of the Rotor-Gene Q. Carefully remove the Rotor-Gene Q from the box and unwrap the plastic cover. Open the lid by sliding it toward the back to access the reaction chamber.

The following items are already installed inside the Rotor-Gene Q:

- 72-Well Rotor (this rotor is blue in color)
- 72-Well Rotor Locking Ring

A laptop computer may be included in the packaging, depending on your order details.

Once you have unpacked the Rotor-Gene Q, proceed with instrument hardware installation, as described on the next page.

## Hardware Installation

**Note**: When the Rotor-Gene Q is started immediately after delivery in cold climates, mechanical parts can block. Allow the instrument to acclimatize to room temperature for at least one hour before turning the instrument on.

Place the Rotor-Gene Q on a level surface that is vibration free.
 Note: Ensure that there is sufficient space behind the instrument for the lid to open fully.

Note: Ensure that the power switch at the back of the instrument can be easily reached.

**Note**: Do not obstruct the back of the instrument. Ensure that the power cord can be easily detached if required, to disconnect power to the instrument.

2. Install Rotor-Gene Q software.

Connect the computer/laptop and instrument as described below.

### Installing Rotor-Gene Q Software

The Rotor-Gene Q can be connected to a computer either via a USB interface (recommended) or via an RS-232 serial interface depending on the specifications of your computer. Rotor-Gene Q software should be installed as described below before connecting the computer/laptop to the Rotor-Gene Q.

The Rotor-Gene Q software can be downloaded from the QIAGEN website and transferred to Virus free removable storage (USB storage) and then transferred to the computer connected to the Rotor-Gene Q.

- 1. Insert the Installation CD or removable storage into the computer. The software should launch automatically if using the CD-ROM. If it does not, browse to the CD-ROM in Windows Explorer and double-click "autorun.hta". If using another form of removable storage, navigate to the device using Windows explorer and double-click the Rotor-Gene Q '.exe' file.
- 2. Install the Rotor-Gene Q software by clicking "Install Operating Software" in the window that appears.



- 3. Click "Next", then select "I accept the agreement" in the license agreement step, and click "Next" again.
- 4. In the "Region" window, select the region that will be used by the software to direct support requests to the right location.

f <mark>8 Setup - Rotor-Gene Q Series Software Region</mark> Place select you region			ž ×
C Europe C North Anseled C Jepen C Asia Pacific C Other			
	< Back	<u>N</u> ext >	Cancel

- 5. Select the destination location where the Rotor-Gene Q software should be installed. For convenience, simply accept the suggested destination folder by clicking "Next".
- 6. In the "Select components" window you can select "Standard Installation" or "Force authentication through Windows domain" (advanced users only) via a drop-down list. Select "Force authentication through Windows domain" (advanced users only) if you want to use the advanced security features (see the "Security Menu" section of the user manual for more details). With this selection, the checkbox "Security & User Management" is automatically activated. Then click "Next".
- 7. The setup wizard will now install the Rotor-Gene Q software. If the following message appears, click "Continue Anyway".

Software	Installation
⚠	The software you are instaling has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why</u> this testing is important.) Continuing your installation of this software may impair or destablice the correct operation of your surface.
	either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
	Continue Anyway

8. After installation is completed, close the setup wizard by clicking "Finish".

# Connecting the Laptop/Computer to the Rotor-Gene Q

### USB connection for Microsoft<sup>®</sup> Windows 7 and Windows 10

We recommend connecting your computer via the USB port. Make sure that the connected computer fulfills the technical requirements that are provided in the user manual supplied with your Rotor-Gene Q instrument.

- 1. Connect the USB cable provided to a USB port at the back of the computer. Connect the USB cable to the back of the Rotor-Gene Q. Then connect the Rotor-Gene Q to the power supply.
- 2. Switch on the Rotor-Gene Q.
- 3. The following window appears. Select "No, not this time" and then click "Next".



4. Select "Install the software automatically (Recommended)" and then click "Next".

Found New Hardware Wiz	ard
	This world helps you instal activers for: Rotor Gene USB Composite Device
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wisard to do?
	<ul> <li>Install the offware automatically [Recommended]</li> <li>Install from a list or gpecific location (Advanced)</li> </ul>
	Click Next to continue.
	Cancel

5. Click "Continue Anyway". Hardware Installation

⚠	The software you are installing for this hardware: Rotor-Gene
	has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why this testing is important.</u> )
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Aryway STOP Installation

6. Click "Finish".

Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard The waard has instead estalling the software for: Retor Gene USB Composite Device
	Click Finish to close the wizard.
	<bok canal<="" finih="" th=""></bok>

7. Click "Yes" to restart the computer.



8. After the computer has restarted, log in again and launch the Rotor-Gene Q software as described below.

### RS-232 connection for Microsoft Windows 7 and Windows 10

- Connect the RS-232 serial cable provided to the serial port of your computer. Connect the RS-232 serial cable to the back of the Rotor-Gene Q. Then connect the Rotor-Gene Q to the power supply.
- 2. Switch on the Rotor-Gene Q.
- 3. Start the Rotor-Gene Q software as described in "Launching Rotor-Gene Q Software", page 13.

## Launching Rotor-Gene Q Software

- 1. Double-click the "Rotor-Gene Q Series software" desktop icon to launch the software. A message may appear with information. Click "Yes" to view a list of the latest changes or "No" to continue with the Rotor-Gene Q installation.
- 2. A "Welcome" window appears the first time the software is launched, but does not appear for subsequent software upgrades.



- 3. Enter the serial number using numerical digits only (e.g., 0110123). You can find the serial number on the type plate located at the back of the instrument.
- 4. Click "Auto-Detect". The corresponding USB or serial port will be detected and shown in the "Port" drop-down list.

5. Click "Begin" to work with the software.

# Additional Software on Computers Connected to Rotor-Gene Q Instruments

Rotor-Gene Q software manages time-critical processes during the PCR run and the data acquisition process. For this reason, it is important to ensure that no other processes use significant system resources and thus slow down the Rotor-Gene Q software. It is particularly important to pay attention to the points listed below.

System administrators are advised to consider any impact that a modification to the system may have on the resources before implementing it.

### Anti-Virus scanners

QIAGEN is aware of the threat that computer viruses cause to any computer that exchanges data with other computers. Rotor-Gene AssayManager version 1.0 and 2.1 software is expected to be primarily installed in environments where local policies are in place to minimize this threat. However, QIAGEN recommends the use of a virus scanner in any case. The selection and installation of an appropriate virus scanning tool is in the customer's responsibility. However, QIAGEN has validated the Rotor-Gene Q software and Rotor-Gene AssayManager version 1.0 and 2.1 with the QIAGEN laptop in combination with the following two virus scanners to show compatibility:

- Symantec Endpoint Protection V12.1.6
- Microsoft Security Essentials V4.10.209<sup>1</sup>

Please refer to the product page on QIAGEN.com for the latest versions of anti-virus software that have been validated in combination with Rotor-Gene Q software and Rotor-Gene AssayManager version 1.0 and 2.1.

If a virus scanner is selected, make sure that it can be configured in a way that the database folder path can be excluded from the scan. Otherwise, there is the risk of database connection errors. Since Rotor-Gene AssayManager version 1.0 and 2.1 creates new database archives dynamically, it is required to exclude the folder path to the files and not single files. We do not recommend the use of virus scanners where only single files can be excluded, e.g. McAfee Antivirus Plus V16.0.5. If the computer is used in an environment without

<sup>1</sup> **Note**: After installation of "Microsoft Security Essentials", you shall check that Windows updates are deactivated since the installation might activate this setting (please read chapter "Operating system updates").

network access, please also make sure that the virus scanner supports offline updates.

To get consistent results after installation of a virus scanner, a system administrator should ensure the following:

- As explained above, the database folder path of the Rotor-Gene AssayManager 1.0 and 2.1 needs to be excluded from file scans which is as follows: C:\Program Files\Microsoft SQL Server\MSSQL10\_50.RGAMINSTANCE\MSSQL\DATA
- Updates to the virus database are not performed when the Rotor-Gene AssayManager 1.0 and 2.1 is in use.
- Please make sure that full or partial scans of the hard drive are disabled during real-time PCR data acquisition. Otherwise there is a risk of adverse impact on the performance of the instrument.

Please read the manual of your selected virus scanner for configuration details.

#### Firewall and networks

The Rotor-Gene Q software can run either on computers without network access, or can run in a network environment, if a remote database server is used. For networked operation, the firewall on the laptop computer provided by QIAGEN is configured in a way that inbound traffic is blocked for all ports, except those ones required to establish a network connection.

Please note that blocking incoming connections does not affect responses to requests triggered by the user. Outgoing connections are allowed as this may be required for retrieving updates.

If your configuration is different, QIAGEN recommends to configurate the firewall in the same way as described above. To this end, a system administrator has to login and has to perform the following steps:

1. Open the "Control Panel" and select "Windows Firewall".

Adjust your computer's setting	js		View by: Small icons 🔻
Action Center	administrative Tools	To AutoPlay	😸 Backup and Restore
Color Management	Credential Manager	鹶 Date and Time	😵 Default Programs
😰 Desktop Gadgets	🚔 Device Manager	R Devices and Printers	🜉 Display
Ease of Access Center	Folder Options	🔣 Fonts	🔒 Getting Started
🖏 HomeGroup	🔓 Indexing Options	Intel(R) HD Graphics	😥 Intel® Rapid Storage Technology
Internet Options	E Keyboard	100 Location and Other Sensors	I Mouse
Network and Sharing Center	Real Constitution Area Icons	5 Parental Controls	Performance Information and Tools
Personalization	🔚 Phone and Modem	Power Options	Programs and Features
Recovery	🧬 Region and Language	1 RemoteApp and Desktop Connections	4 Sound
Speech Recognition	Sync Center	1 System	L Taskbar and Start Menu
Troubleshooting	& User Accounts	💐 Windows Anytime Upgrade	🛃 Windows CardSpace
M Windows Defender	P Windows Firewall	Windows Mobility Center	area Windows Update
化 Wireless Configuration Utility	Windows Firevall Set firevall security protect your comp and malicious softward	options to help uter from hackers vare.	

2. Select "Use recommended settings".

🗿 🕘 🕈 🖬 🕴 Control Panel 🕨	All Control Panel Items   Windows Firewall		- Search Con.
Control Panel Home	Help protect your computer with	Windows Firewall	
Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers through the Internet or a network.	or malicious software from gaining access to your computer	
Change notification settings	How does a firewall help protect my compu	iter?	
Turn Windows Firewall on or off	What are network locations?		
Restore defaults	Update your Firewall settings		
Advanced settings	Windows Firewall is not using the rec	ommended	
Troubleshoot my network	settings to protect your computer.		
	What are the recommended settings:		
	😵 Home or work (private) r	networks Not Connected 🕥	
	Public networks	Connected 👁	
	Networks in public places such as airports	or coffee shops	
	Windows Firewall state:	Off	
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs	
	Active public networks:	None	
	Notification state:	Notify me when Windows Firewall blocks a new program	
See also			
Action Center			
Action Conto			

3. Check that the following settings are active:

Control Panel	All Control Panel Items      Windows Firewall		- 4+ Search Con 🔎		
Control Panel Home	Help protect your computer with Wi	ndows Firewall	0		
Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers or n through the Internet or a network.	Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network.			
😵 Change notification settings	How does a firewall help protect my computer?				
Turn Windows Firewall on or off	What are network locations?				
Bestore defaults	🛛 🥑 Home or work (private) net	works Not Connected @			
😵 Advanced settings	Networks at home or work where you know ar	nd trust the people and devices on the network			
Troubleshoot my network	Windows Firewall state:	On			
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs	Δ		
	Active home or work (private) networks:	None	*6		
	Notification state:	Notify me when Windows Firewall blocks a new program			
	🔮 Public networks	Connected			
	Networks in public places such as airports or c				
	Windows Firewall state:	On			
	Incoming connections:	Block all connections to programs that are not on the list of allowed programs			
	Active public networks:	None			
See also	Notification state:	Notify me when Windows Firewall blocks a new			
Action Center		hindhaun			
Network and Sharing Center					

For security and reliability reasons, cable-based network access instead of Wi-Fi shall be used. The laptop computers that are provided by QIAGEN have a disabled Wi-Fi adapter. If your configuration is different, a system administrator must disable the Wi-Fi adapter manually which can be done by the following steps:

1. Open the "Control Panel" and select "Network and Sharing Center

Adjust your comput	er's settings			View by: Sma	ull icons 🔻
Action Center	😨 Adminis	trative Tools	Ro AutoPlay	🐌 Backup and Restore	
🕺 Color Management	Credent	al Manager	🔮 Date and Time	🝘 Default Programs	
🐕 Desktop Gadgets	🚔 Device N	fanager	Devices and Printers	Display	
Ease of Access Center	🕌 Folder C	ptions	K Fonts	📑 Getting Started	
🝓 HomeGroup	🔒 Indexing	Options	Intel(R) HD Graphics	😥 Intel® Rapid Storage Technology	
沈 Internet Options	🕮 Keyboar	đ	M Location and Other Sensors	J Mouse	
Network and Sharing	Çenter 🔚 Notifica	ion Area Icons	appendit Controls	Performance Information and Tools	
Personalization	Network and Sharing Center	dem	Power Options	Programs and Features	
Recovery	Check network status, change network settings and set prefer	guage	to not the second secon	🛋 Sound	
Speech Recognition	for sharing files and printers.	ances .	🕎 System	🛄 Taskbar and Start Menu	
Troubleshooting	See User Acc	ounts	🥞 Windows Anytime Upgrade	📑 Windows CardSpace	
Windows Defender	🔗 Window	s Firewall	Windows Mobility Center	🖉 Windows Update	
R Wireless Configuration	Utility				

2. Select "Change adapter settings".



3. Hover over "Wireless Network Connection", press the right mouse button, and select "Disable" from the context menu.

Control Panel + Network and Internet + Net	work Connections		Search Net
Organize   Connect To Disable this network device	Diagnose this connection Rename this connect	ion Change settings of this connection	8 • 🗊 😧
Keed Area Contended in professional for the second	s Network Connection Connect Disconnect Sotus Dispose Brdge Connections Context StotCot Delive Rename Properties		

4. Check that the Wireless Network Connection is disabled.

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CO v I → Control Panel → Network and Internet → Network Connections → -	47	Search	Net	P
Organize 🕶	-	• 🛙		,
Network characterization 2017-V Wretest Network Connection Wretest Network Connection Different Connection 2017-V Wretest Network Netw				
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### System tools

Many system tools may use significant system resources even without any user interaction. Typical examples of such tools are:

- File indexing, which is performed as a background task by many contemporary office applications
- Disk defragmentation, which often also employs a background task
- Any software that checks for updates on the internet
- Remote monitoring and management tools

Please be aware that due to the dynamic nature of the IT world, this list may not be complete and tools may be released that are not known at the time of writing. It is important that system administrators take care that such a tool is not active during a PCR run.

### **Operating system updates**

The laptop computers provided by QIAGEN is configured in a way that automatic updates of the operating system are disabled. If your configuration is different, a system administrator must disable any automatic update process of the operating system which can be done by the following steps:

1. Open the "Control Panel" and select "Windows Update".

🚫 - 📴 + Control Panel + All	Control Panel Items 🕨		<ul> <li>✓ 4y</li> <li>Search Con</li> </ul>
Adjust your computer's settings			View by: Small icons 🔻
Action Center	🐯 Administrative Tools	autoPlay	🐌 Backup and Restore
Color Management	Credential Manager	😬 Date and Time	👦 Default Programs
Desktop Gadgets	🚔 Device Manager	Devices and Printers	🌉 Display
Ease of Access Center	Folder Options	🗽 Fonts	📑 Getting Started
HomeGroup	🛃 Indexing Options	関 Intel(R) HD Graphics	😥 Intel® Rapid Storage Technology
Internet Options	Keyboard	Location and Other Sensors	
Network and Sharing Center	🛄 Notification Area Icons	arental Controls	Performance Information and Tools
Personalization	Phone and Modem	Power Options	Programs and Features
Recovery	🔗 Region and Language	15 RemoteApp and Desktop Connections	🛋 Sound
Speech Recognition	Sync Center	🕎 System	Taskbar and Start Menu
Troubleshooting	& User Accounts	💐 Windows Anytime Upgrade	Windows CardSpace
Windows Defender	Windows Firewall	Windows Mobility Center	2 Windows Update
<sup>5</sup> Wireless Configuration Utility			Check for software and driver updates, choose automatic updating settings, or view installed updates.

2. Select "Change settings".



3. Select "Never check for updates".

Control Panel + All Control Panel items + Windows Update + Change settings	• 4 Search Con P
Choose how Windows can install updates When you computer is collex, Windows can automatically you can also install them before shutting down the computer. How does subcontail updating help mc? Enportant updates Install updates subcontails() (recommended) Dewnload updates have the install them Recom Endot updates in the rec closes whether to download and install them Recom Endot updates the subcontails() (recommended) Dewnload updates have there is download and install them Recom Endot updates the subcontails() (recommended) Dewnload updates have there is download and install them Recom Endot updates the same way increase them to updates Install updates in the recommended updates the same way increase important updates Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the recommended updates the same way increase important updates. Install updates in the same update is all endot updates in the recommended updates in the recommended updates is all endot updates in the recommended updates is all updates in the recommended	
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4. Check that option "Never check for updates" is active.

Control Panel +	All Control Panel Items      Windows Update      Change settings	👻 🍫 Search Con 🔎
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	Cancel	

In the event that updates are required due to uncovered security vulnerabilities, QIAGEN provides mechanisms to install a defined set of validated Windows security patches either online (if internet connection is available on QIAGEN laptop), or as offline package, prepared on a separate computer with internet connection.

Please visit the product page on QIAGEN.com for more information.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at <u>www.qiagen.com</u> or can be requested from QIAGEN Technical Services or your local distributor.

### **Document Revision History**

R2, May 2018

- Updates to the security configuration of QIAGEN-provided laptops
- Details of the password for the new admin account that is now preinstalled on all new QIAGEN laptops
- Information on how to create user accounts in Windows 7
- Updates to anti-virus software recommendations
- Updates to firewall and network settings

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