Applied Biosystems QuantStudio 6 & 7 Real-Time PCR System

简明操作手册



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QuantStudio 6 & 7 定量PCR 仪简易设置

1、启动电脑,开启定量PCR仪的电源,双击电脑桌面

"QuantStudio 6&7 Software"快捷方式,进入初始界面。



从上图中,可以看到主菜单中有 3 个大项, "Set up"、"Run"、

"Analyze"分别为"实验设置"、"实验运行"、"实验结果分析"。"设置"项下有"实验设置"、"模板设置"、"应用设置" 三小项;"运行"项下有"快速运行"、"设备控制台";"分析"项下有"数据分析"、"多板分析"。

2、常规实验设置,点击"Experiment Setup",进入实验设置主界面。

📽 QuantStudio™ 6 and 7	Flex Real-Time PCR System Software v1.0			
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Experiment Menu	Experiment: 2015-01-27 104710	Type: Standard Curve	Reagents: Ta	aqMan® Reagents 🛛 👔
Setup	* Experiment Name: 2015-01-27 104710 Barcode: User Name:	实验名称(必填)	Comments:	
Experiment The Properties	Which instrument type are you using QuantStudio™ 6 Flex System	to run the experiment? 仪器类型 ✓ QuantStudio™ 7 Flex System	(必选)	
Assign Run Method	• Which block are you using to run the	experiment? 仪器加热	奠块类型(必选)	
	384-Well	Array Card	✓ 96-Well (0.2mL)	Fast 96-Well (0.1mL)
Run	What type of experiment do you want	t to set up? 实验类型	(必选)	
	✓ Standard Curve	Relative Standard Curve	Comparative Cτ (ΔΔCτ)	Melt Curve
	High Resolution Melt	Genotyping	Presence/Absence	
Analysis	• Which reagents do you want to use to	o detect the target sequen 突脸试剂	类型(必选)	
Export	✓ TaqMan® Reagents	SYBR® Green Reagents	Other	
	* What properties do you want for the i	instrument run? 运行模式	(必选)	
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设置主界面下左边为导航树,可以选择"设置(Setup)"、

"运行(Run)"、"分析(Analysis)"和"输出

(Export)"选项,右边为相应设置。当选择Set up 的第一小项"Experiment Properties(实验属性)"时,右边显示图上的选择画面,需要选择仪器类型,仪器加热模块类型、实验 类型、实验试剂类型和运行模式。

3、上一项选择完毕,向下选择"Define"来定义实验内容。 在右边"Target"框中定义检测目标,例如,要检测的目标基因用TaqMan探针法,要填写相应的报告荧光基团 (Reporter)和淬灭基团(Quencher),如用SyberGreen等 染料法,则填写相应的报告荧光基团(Reporter),淬灭基团 (Quencher)选择"None"; "Sample"框填写不同的样品 名称;如果实验有生物学组群重复,可以在"Biological Replace Groups"中填写;要注意参比荧光的填写,如有 ROX作为参比荧光,则选择ROX,如没有,则选择None。 注意:请详细阅读所使用试剂盒之说明书,确定以上所述之 信息点,之后再进行以上设置。

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Properties	Target 1	FAM	NFQ-MGB	– –	Sample 1	•		
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4、完成"Define(定义实验内容)"项后,向下点选
"Assign"进行反应板设置。当你在右边反应板上选择后,可以在中间位置的"Target"和"Sample"中进行选择,打上
"√"即为该孔选择检测的目标基因和该孔的样品编号,例

如图中, "A1"号孔代表1号样品检测1号目标基因,结果 是未知量。

注意:通常对目标基因有三类 Task,分别为"U"未知量, "S"标准量,"N"阴性对照,我们推荐在设板过程中,明 确 Task。

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5、完成"Assign"项后,向下点选"Run Method"项,在右边,可以看到默认的运行程序,客户可以根据自己的试剂推荐和实验要求进行相应的更改。程序操作工作栏中,已有所

有可以用到的设置命令,可以根据实际情况进行操作。还要在程序操作工作栏上的反应体系中,填写实际的反应体系。

注意: 必须在适当的荧光采集步骤中,确认荧光采集标志是 打开的,即相机的标志是可见的,如灰色隐身状,代表荧光 采集关闭。

6、完成左边导航树中"Setup"项中的4项后,需要将以上

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的设置保存成数据运行文件(以 eds 为后缀)。具体操作为:

点击软件菜单栏中的"Save (保存)"下拉菜单,点击 "Save As (存储为)",弹出对话框,选择存储的文件夹, 点击 Save 即可。

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7、在完成实验设置以及实验运行文件存储操作之后,我们就可以进入"Run"项中,如果前面设置没有问题,就可以按 "Start Run"键,开始实验进行。在点选"Run"项后,我 们可以在右边实时的看到程序运行过程中荧光采集的情况。

QuantStudio™ 6 and	7 Flex Real-Time PCR System Software v1.0	_		- • ×
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View Run Data	6.8			
Export	0.0 2 4 6 8 10 12 14 16 18 20 5 Cycle			

8、反应完成后,我们可以在"Analysis(结果分析)"项 中,看到本次实验的具体数据。用探针法和染料法都有扩增 曲线、多重荧光信号曲线和原始荧光信号,如做绝对定量和 相对定量,还会有标准曲线,用染料法,还有融解曲线。 注意:1 如果对右边板中的数据进行了修改,要按一下右上 方的"分析(Analysis)"键来矫正输出更改后的数据。

 在图例中的红色框中,是扩增曲线阈值和基线调整区域, 可以根据具体的实验结果进行相关数据的更改。

3 此图例显示的扩增曲线的对数图谱形式,如果需要转换为 常见的线形图谱,则可点击绿色框所标示的Graph Type之下 拉框,点击"linear(线性)"即可。"Log(对数)"则对 应为对数图谱。



9、按右上方的"分析设置(Analysis Setting)"键,也可以 在其中的红色方框中进行阈值、基线的调整。

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-	Select the step and stage to use for CT analysis. Only stage/step combinations for which data suitable for CT analysis have been collected are displayed.								11 12
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10、数据分析也完成后,可以选择左边导航树的最下一项 "输出(Export)"键进行数据输出。操作者可以通过打钩 决定输出文件的名称,确定输出文件的位置及输出文件的类型,主要输出文件类型是Excel的文件和TXT的文档文件。

Analysis Tools Help								
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11、仪器的维护校正:点选软件菜单栏"Tool(工具)"项 下的最后一项"Instrument Console"后,我们进入了以下的 界面。在这个界面中,可以看到我们仪器的状态,按图中红 色圈中的"Manage Instrument",用户可以进入电脑主机和 PCR 仪器的信息交换控制台,进行实验数据的上传和下载。 右边的红色框区域"Maintenance Info"可以进入仪器校正 区,可以做常规的ROI、背景、染料、一致性等校正实验。



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	Serial Number		278860025	
	Instrument Firmware Version		1.0.4	
	IP Address		10.147.5.82	
	Block Type		Fast 96-Well Block (0.1mL)	
	Controller Firmware Version		1.0.2	
	Optics Firmware Version		24	
	Thermal Block Firmware Version		20	
	Heated Cover Firmware Version		10	

