

Protocol Sheet

ABI StepOnePlus® (for Software Version 2.0) instrument setup instructions for RT² Profiler PCR Arrays

Important points before starting

- Please read the handbook supplied with the RT² Profiler PCR Array, paying careful attention to the “Safety Information” and “Important Notes” sections, before beginning this procedure.

Procedure

1. Open the ABI StepOnePlus software on the desktop of the computer that is connected to the ABI StepOnePlus system.
2. Select New Experiment on the Upper Toolbar.
3. Define: Experiment Properties
 - Label your experiment
 - Type in Experiment Name
 - Type in Barcode, Username, Comments (optional)
 - Select Instrument
 - StepOnePlus Instrument (96 wells)
 - Select Experiment Type
 - Quantitation
 - Click Next on bottom of screen
4. Define: Methods and Materials
 - Quantitation method
 - Standard Curve
 - Reagents to detect target sequence
 - SYBR® Green reagents
 - Keep “Melt Curve” checked
 - Ramp speed
 - Standard (about 2 hours to complete a run)
 - Template type
 - cDNA (complementary DNA)
 - Click Next on bottom of screen
5. Set up: Targets



- How many targets do you want to quantify?
 - 1
- Uncheck: SetUp Standards
 - Target Name:
 - Target 1
 - Reporter
 - SYBR
 - Quencher
 - None
- Click Next on bottom of screen
- Ignore Warning, click OK

6. Set up: Standards

- How many points?
 - 2
- How many replicates?
 - 1
- Click Next on bottom of the screen

7. Set up: Samples

- How many samples?
 - 96

Note: If your instrument does not recognize all 96 wells, see additional instructions on the final page
- How many replicates?
 - 1
- How many negative controls?
 - 0
- Which sample/target reactions do you want to set up?
 - Select: All Sample/Target Reactions
- Verify all wells in Plate Layout view have the "U" symbol (U=unknown)
- Click Next on bottom of screen

8. Set up: Run Method

- This setting should default to run protocol with melting curve
 - Verify Capture Data icon is present at
 - Cycling stage: 60°C (1 minute step)
 - Melting Curve stage: during ramp from 60°C to 95°C

- Set Reaction Volume to 25 μ l
 - Verify Number of Cycles is set to 40
9. Click "Finish Designing Experiment"
 10. Ignore Warning
 11. Click OK when prompted "You did not set up standards on the plate"
 12. Load your plate into the instrument
 13. Start Run for this experiment
 14. Save your experiment before starting the run

Note: For customers whose instruments do not recognize all 96 wells of the array, please use the following instructions.

ABI StepOne Plus — Modified Setup

15. Open the ABI StepOnePlus software on the desktop of the computer that is connected to the ABI StepOnePlus system.
16. Select Advanced Setup
17. Define: Experiment Properties
 - Label your experiment
 - Type in Experiment Name
 - Type in Barcode, User Name, Comments (Optional)
 - Select instrument
 - StepOnePlus Instrument (96 wells)
 - Select experiment type
 - Quantitation — Standard Curve
 - Select reagents
 - SYBR Green
 - Select ramp speed
 - Standard (about 2 hours to complete)

18. Click Plate Setup (on left)

- Click Assign Targets and Samples
 - Highlight entire plate
 - Check the box next to Target 1 under Assign Targets to the Selected Wells
 - Verify that all wells in Plate Layout view have the U symbol (U=unknown)

19. Click Run Method (This setting should default to run protocol with melting curve)

- Verify Data Capture icon is present at:
 - Cycling Stage: 60°C (1 minute step)
 - Melting Curve Stage: During ramp from 60°C to 95°C
- Set Reaction Volume to 25 µl
- Verify Number of Cycles is set to 40

20. Click Start Run

The RT² Profiler PCR Array is intended for molecular biology applications. This product is not intended for the diagnosis, prevention, or treatment of a disease.

QIAGEN handbooks can be requested from QIAGEN Technical Service or your local QIAGEN distributor. Selected handbooks can be downloaded from www.qiagen.com/literature. Material safety data sheets (MSDS) for any QIAGEN product can be downloaded from www.qiagen.com/Support/MSDS.aspx.

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