

Protocol Sheet

Bio-Rad® CFX96™ and CFX384™ 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.
- A downloadable protocol file/run template is available. This can be used instead of configuring your instrument. Once you have created a run template you can use it for all of your future PCR array experiments.

Procedure

To create a new run template

1. Turn on the BioRad CFX instrument.
2. Open the BioRad CFX Manager software.
3. If this is your first time running a PCR Array on your instrument, select “Create a new Experiment” (Figure 1). Select CFX96 or CFX384 depending on your PCR instrument.



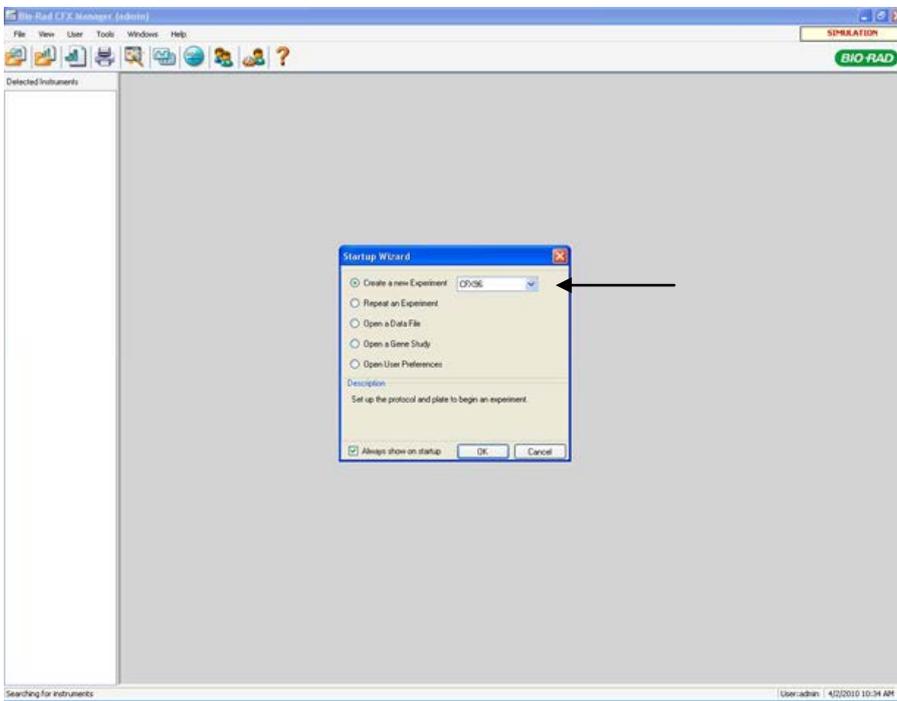


Figure 1. Startup Wizard.

4. Under the "Express Load" drop down menu box, select "CFX_2StepAMP+Melt.prc" (Figure 2).

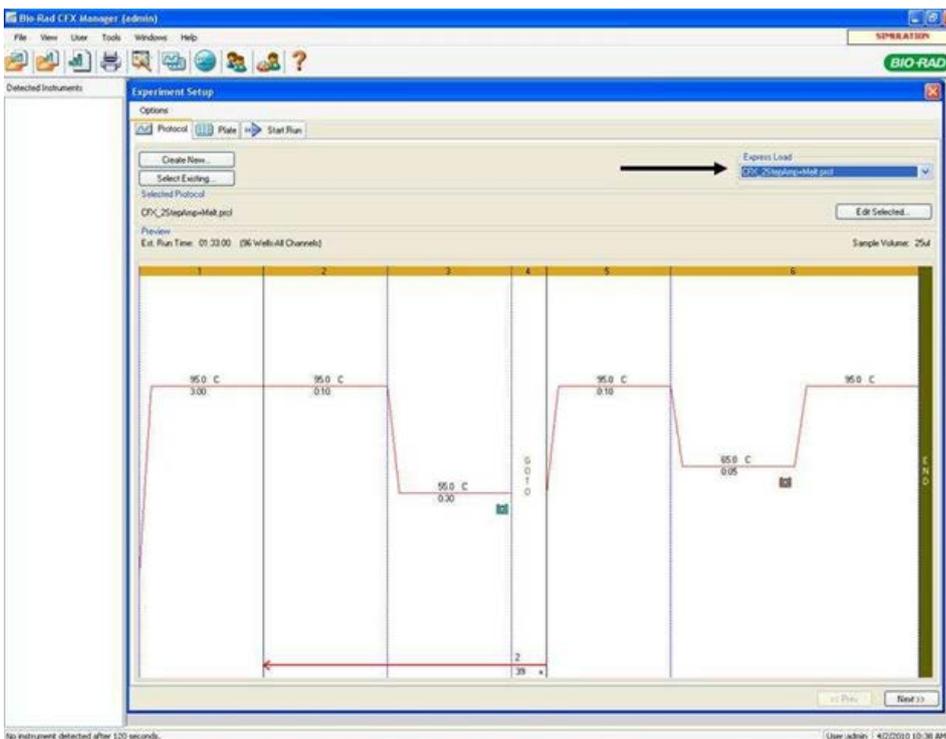


Figure 2. Experimental setup.

5. Click on "Edit Selected button" (Figure 3).

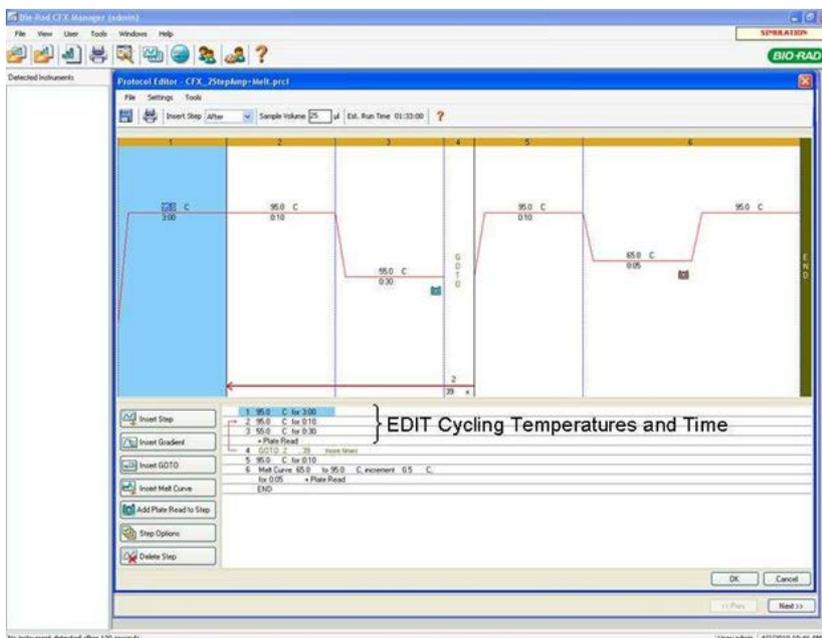


Figure 3. Cycling parameters.

6. Use the following cycling conditions:

- Hotstart: 95°C for 10 minutes
- 40 cycles of:
 - 95°C for 15 seconds
 - 60°C for 60 seconds

Important Note: The Ramp Rate between the 95°C to 60°C step must be changed to 1°C/sec.

7. Select step #2 (95C for 00:15) (Figure 4):

- Click Step Options
- Change Ramp Rate to 1°C/sec
- Click OK when done

8. Save the file as "SABiosciences PCR Array Protocol."

9. Click the "Plate" Tab to configure the PCR Instrument to detect the SYBR® Green signal (Figure 6).

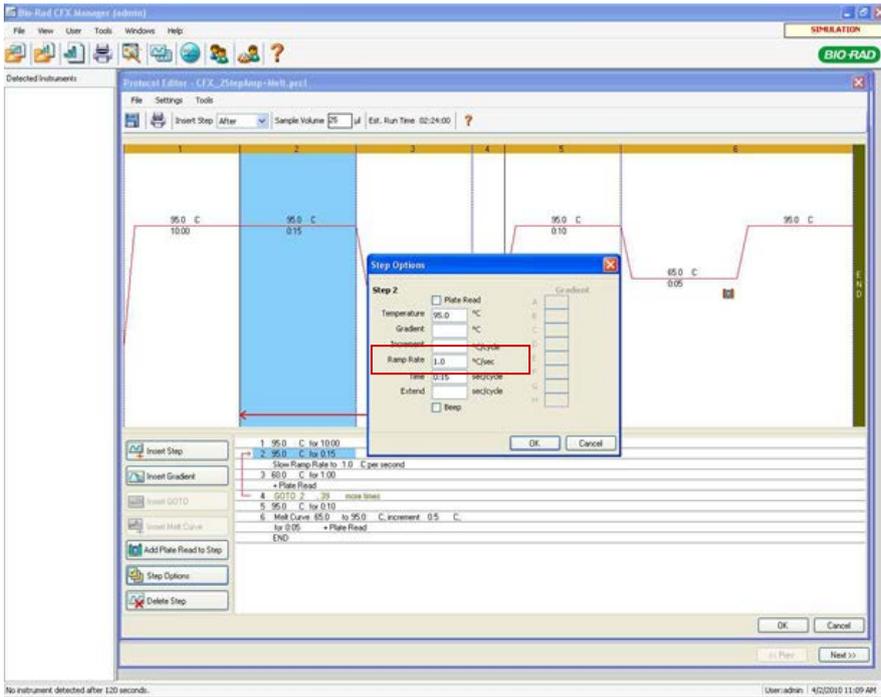


Figure 4. Step options.

10. Under the “Express Load” drop down menu box, select “Quick Plate_96wells_SYBR_Only.ptld”.
11. To start the Run, place your plate into the CFX96 instrument. Make sure that well location A1 on your PCR ARRAY is properly orientated in your PCR instrument.
12. Press “Close Lid” button.
13. Press Start.

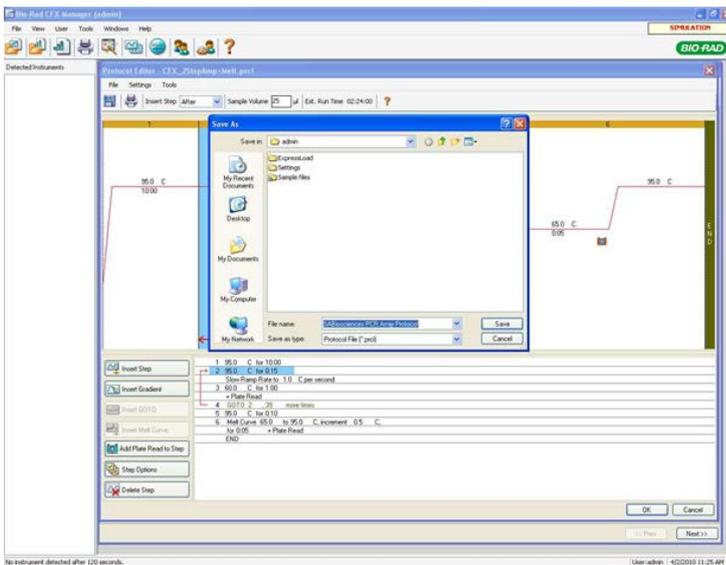


Figure 5. Save File window.

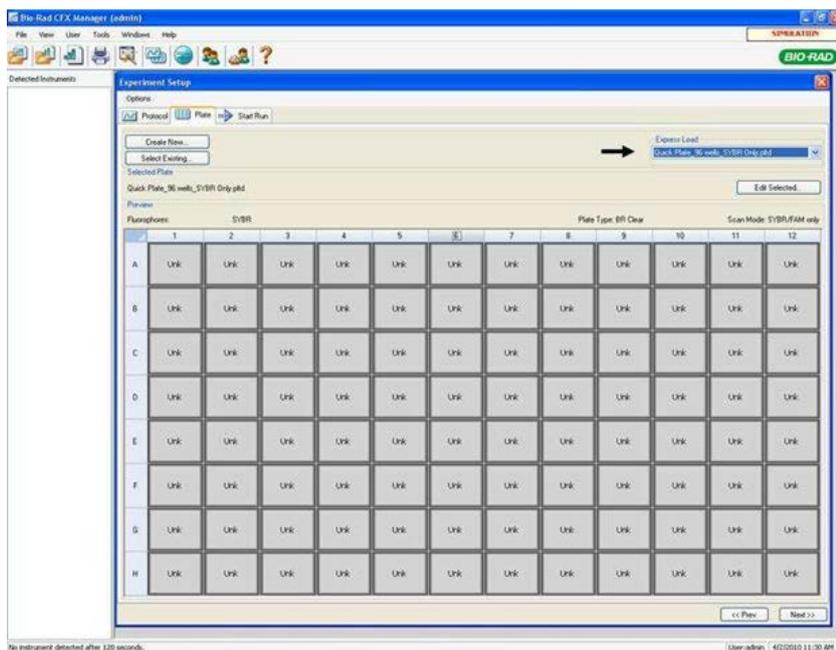


Figure 6. Plate Setup window.

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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