Protocol Sheet

Bio-Rad® CFX96® and CFX384® instrument setup instructions for qBiomarker Copy Number PCR Arrays

Important points before starting

- Please read the handbook supplied with the qBiomarker Copy Number 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, this template can be used for all future QIAGEN PCR array experiments.

Procedure

Creating a new run template

1. **Turn on the BioRad CFX instrument.**
2. **Open the BioRad CFX Manager software.**
3. **If this is the first time a QIAGEN PCR array will be run on your instrument, select "Create a new Experiment" (Figure 1). Select CFX96 or CFX384, as appropriate.**

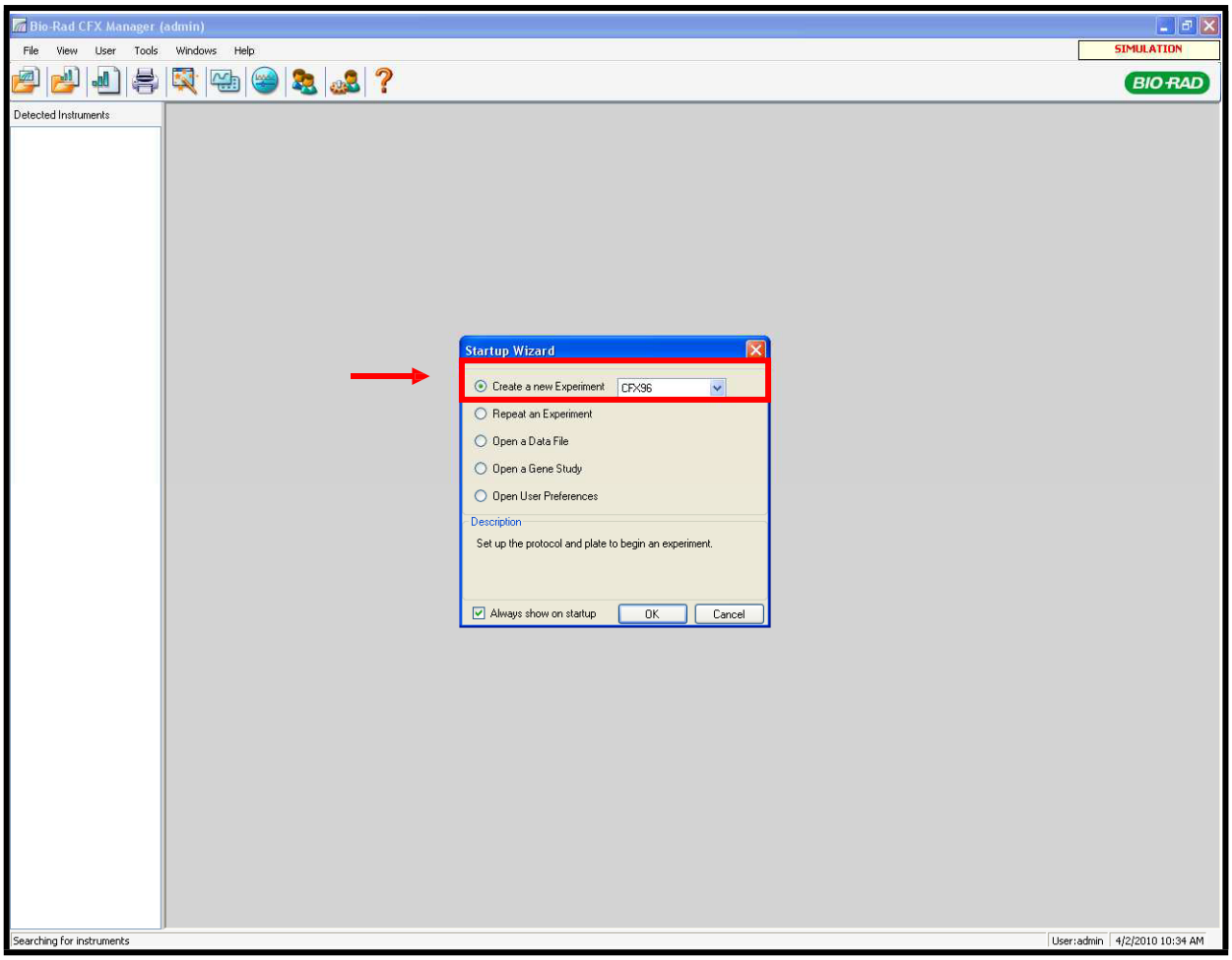

Figure 1. Startup Wizard.

4. Under the "Express Load" dropdown menu box, select "CFX_2StepAMP+Mlt.prcl"

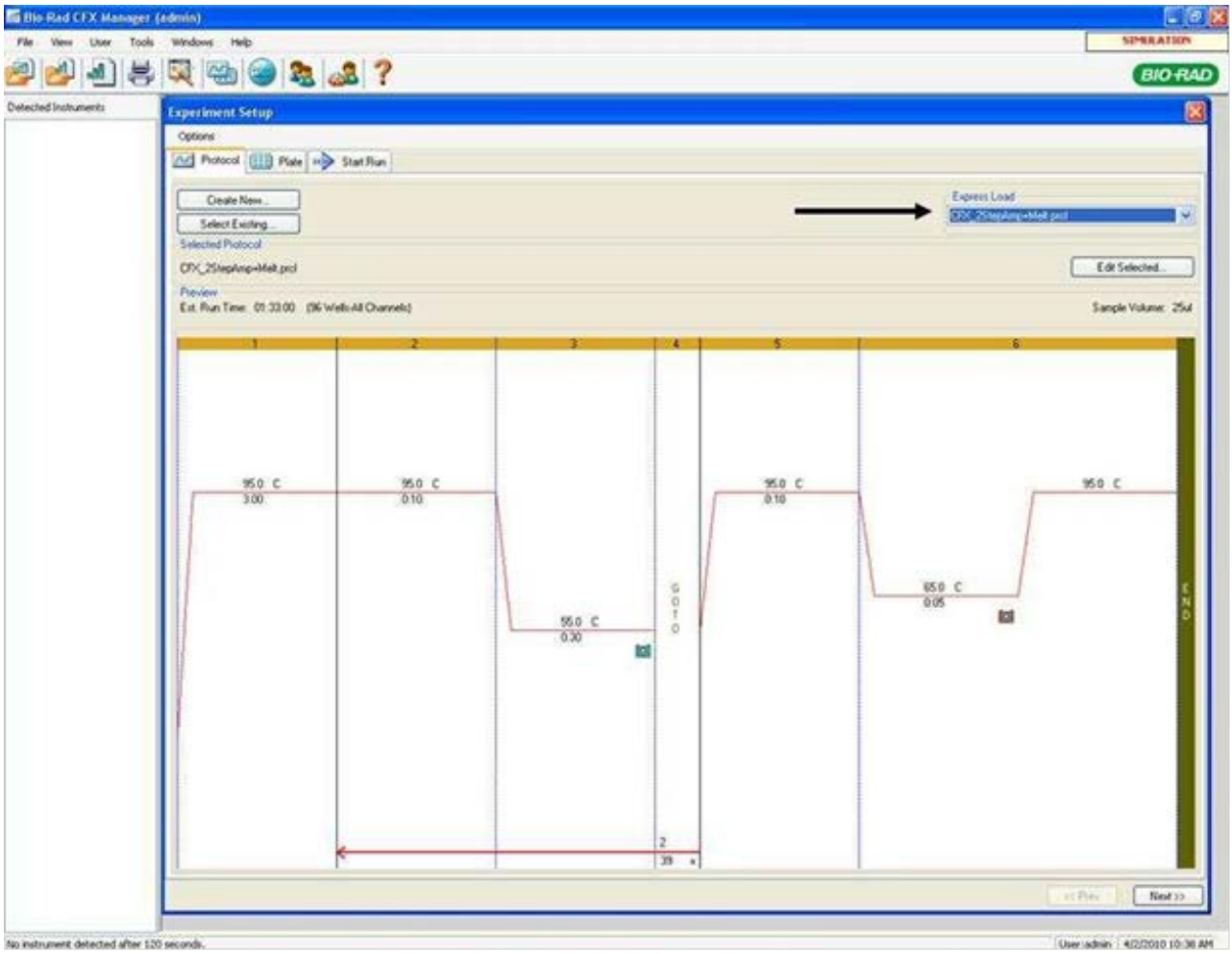

Figure 2. Experimental setup.

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

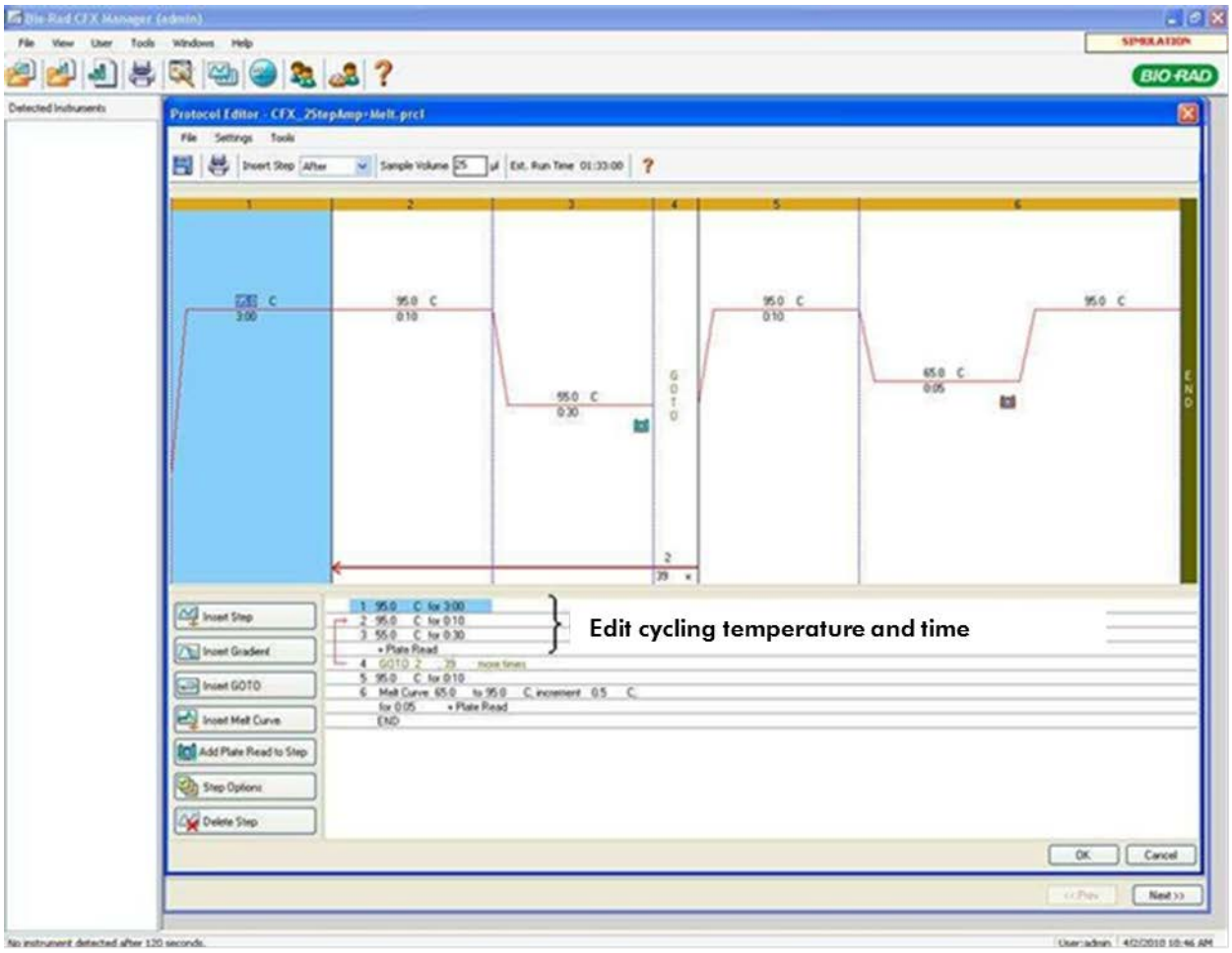

Figure 3. Cycling parameters.

6. **Use the following cycling conditions:**
    - **Hotstart: 95˚C for 10 min.**
    - **40 cycles of:**
        - **95˚C for 15 sec.**
        - **60˚C for 60 sec.**

Note: The ramp rate between the 95°C and 60°C step must be changed to 1°C/sec.

7. **Select step 2. (95˚C for 15 sec.) (Figure 4)**
    - **Click "Step Options."**
    - **Change "Ramp Rate" to 1˚C/sec.**
    - **Click "OK" when done.**

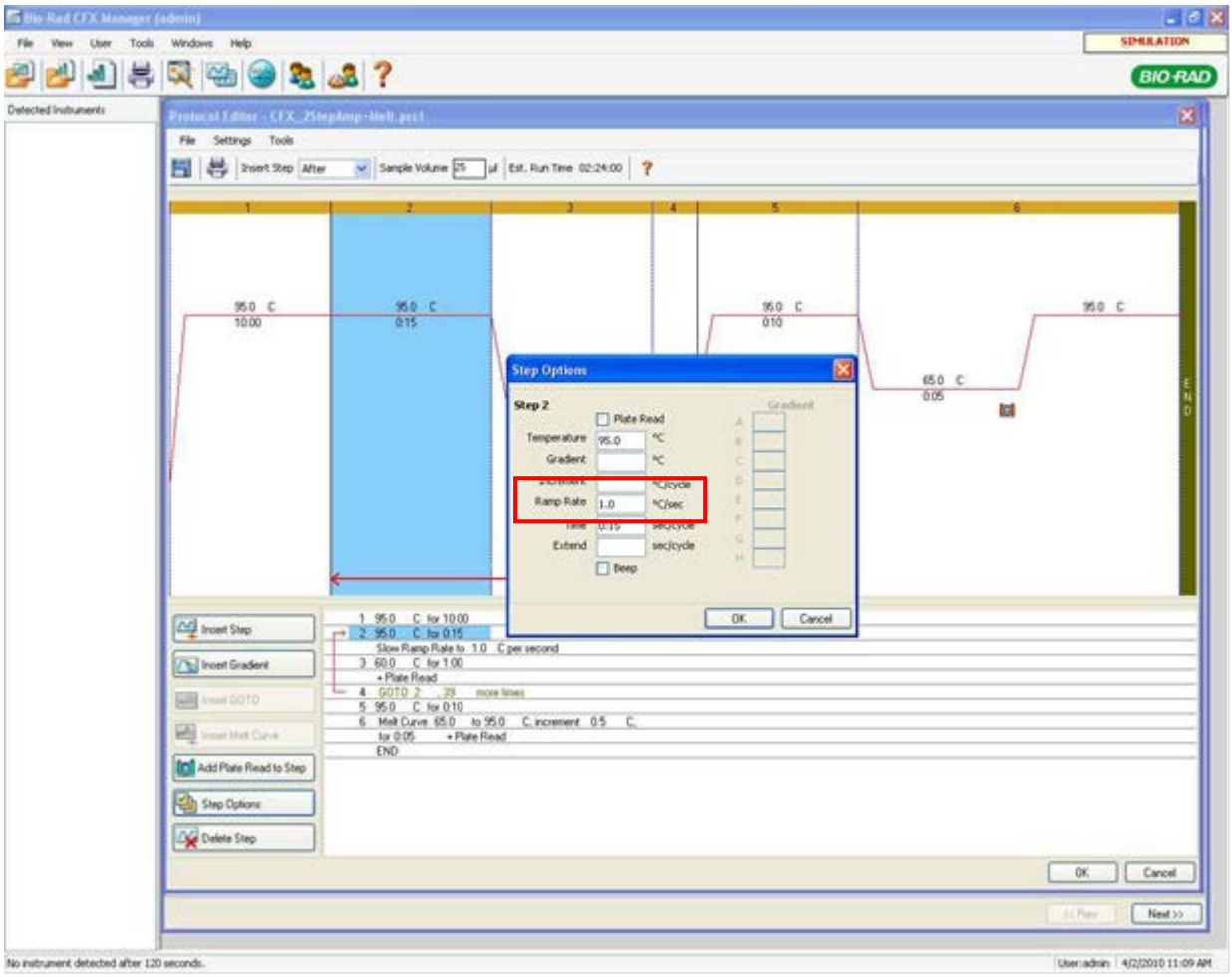

Figure 4. "Step Options" screen.

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

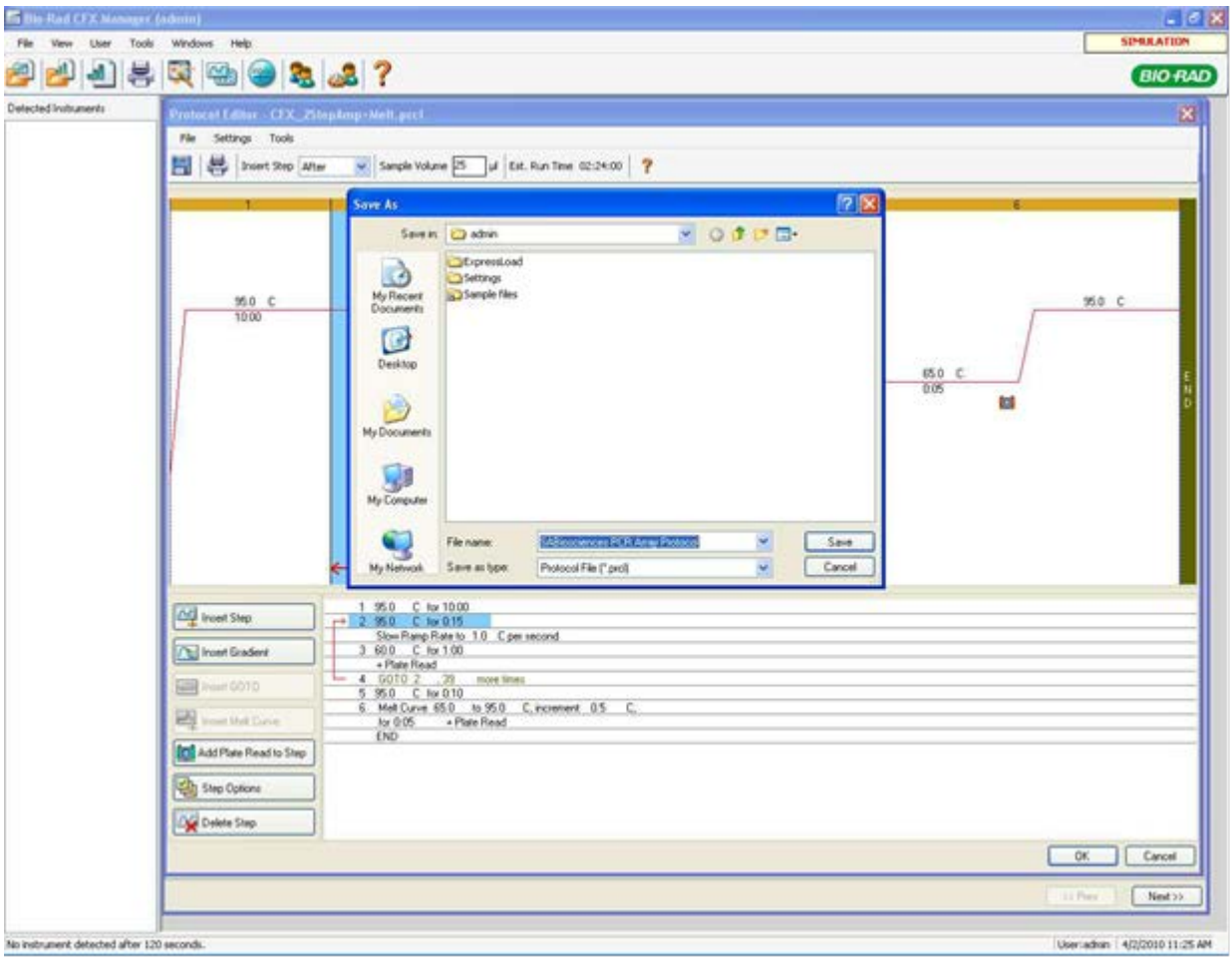

Figure 5. "Save File" window.

9. **Click the "Plate" tab to configure the PCR instrument to detect the SYBR® Green signal (Figure 6).**
10. **Under the "Express Load" dropdown menu box, select "Quick Plate_96wells_SYBR_Only.ptld."**
11. **Click "Next."**

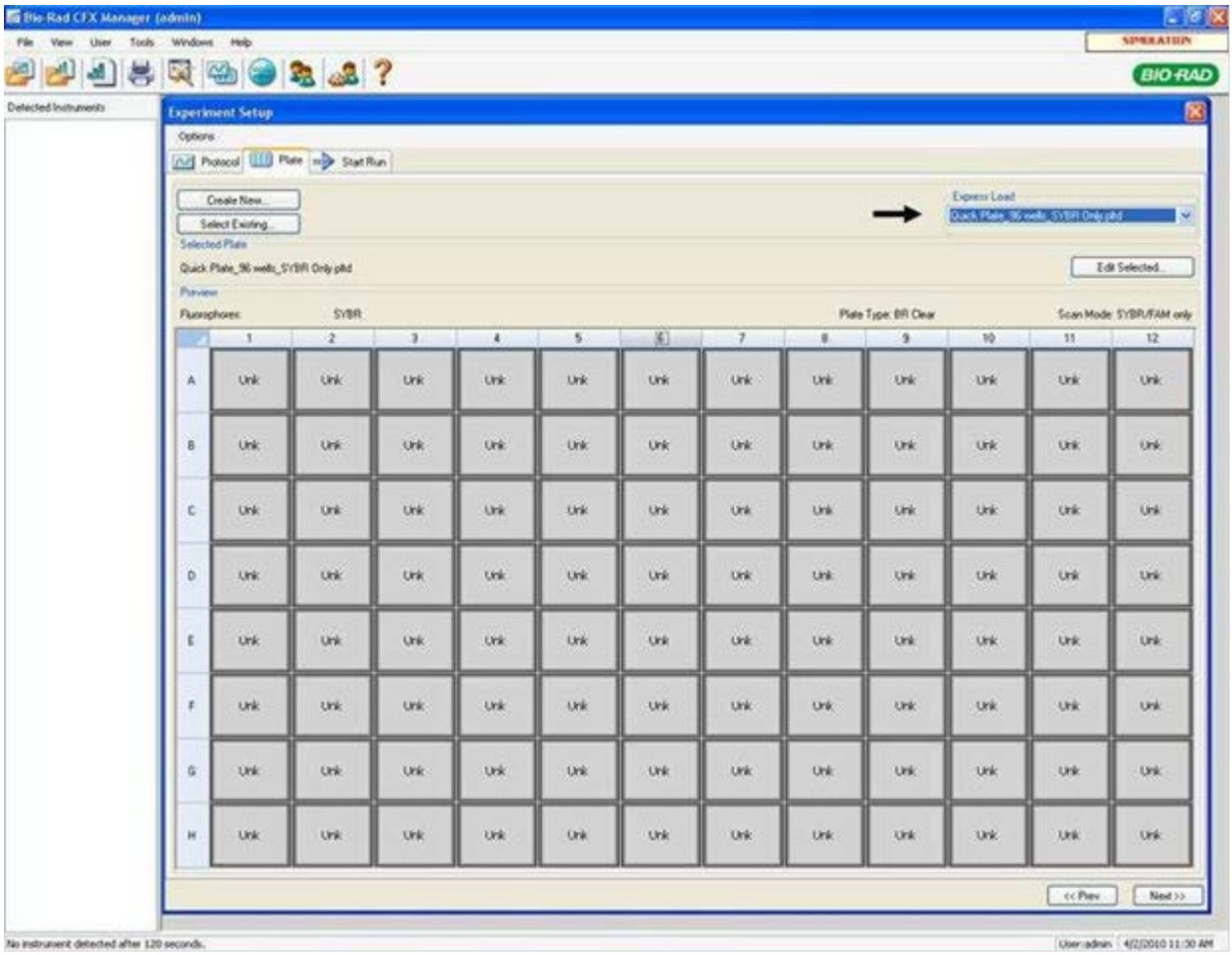

Figure 6. "Plate Setup" window.

12. **To start the run, place the plate into the CFX96 instrument. Make sure that well location A1 on the PCR array is properly oriented in the PCR instrument.**
13. **Press "Close Lid" button.**
14. **Press "Start."**

The qBiomarker Copy Number PCR Arrays are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

For up-to-date licensing and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN handbooks can be requested from QIAGEN Technical Service or your local QIAGEN distributor. Selected handbooks can be downloaded from www.qiagen.com/literature. Safety data sheets (SDS) for any QIAGEN product can be downloaded from www.qiagen.com/safety.

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