

Protocol Sheet

Applied Biosystems® StepOnePlus (for software version 2.0) 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.

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 experiment.
 - Type in “Experiment Name.”
 - Type in “Barcode,” “User Name,” “Comments” (optional).
 - Select instrument.
 - “StepOnePlus Instrument (96 wells)”
 - Select experiment type.
 - “Quantitation”
 - Click “Next” on bottom of the screen.
4. “Define: Methods & Materials”
 - “Quantitation Method”
 - “Standard Curve”
 - “Reagents to Detect Target Sequence”
 - “SYBR® Green Reagents”
 - Keep “Melt Curve” checked.
 - “Ramp Speed”
 - “Standard (~2 hours to complete a run)”
 - “Template Type”
 - “cDNA” (complementary DNA)
 - Click “Next” on bottom of the 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 the screen.
- Ignore the 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 the instrument is not recognizing all 96 wells, please see additional instructions on the last 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 the screen.

8. "Set Up: Run Method"

- This setting should default to the 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.
- 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 the run for this experiment.
- 14. Save your experiment before starting the run.

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

ABI StepOnePlus — modified setup

1. Open the ABI StepOnePlus software on the desktop of the computer that is connected to the ABI StepOnePlus system.
2. Select **“Advanced Setup.”**
3. **“Define: Experiment Properties”**
 - Label the 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 (~2 hours to complete)”**
4. Click **“Plate Setup”** (on left).
 - Click **“Assign Targets and Samples”** tab.
 - Highlight the entire plate.
 - Check the box next to **“Target 1”** under **“Assign Targets to the Selected Wells.”**
 - Verify all wells in **“Plate Layout”** view have the **“U”** symbol (**“U”** = unknown).
5. 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.

6. Click "Start Run."

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.

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