USER GUIDE

applied biosystems
by Thermo Fisher Scientific

QuantStudio® Design and Analysis Software

Getting started with design and analysis of experiments in the desktop software

for use with: QuantStudio® 3 and 5 Real-Time PCR Systems

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For Research Use Only. Not for use in diagnostic procedures.

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Enter experiment properties

In the Properties tab:

- (*Optional*) Edit the experiment name in the Properties field.
- (*Optional*) Click in the barcode field, then enter or scan the barcode on the reaction plate.
- (*Optional*) Enter your user name.
- Select an instrument, experiment type, and chemistry from the drop-down lists.
- (*Optional*) Click **Manage chemistry details** to enter detailed reagent information.
- (*Optional*) Enter comments.
- (*Optional*) Click **Save** to save the experiment properties before continuing.

Confirm or edit the Experiment Method (run method)

In the Method tab:

- (*Optional*) Adjust the reaction volume for your experiment.
- (*Optional*) Edit the default run method (thermal protocol); see "Create or edit an Experiment Method" on page 70.
  The default run method has been optimized for TaqMan® assays and a broad range of other reagents.

Define targets and samples

These are general instructions. For specific instructions for each experiment type, see the appropriate chapter in this guide.

In the Define tab:

- Define the targets in the Targets table.
  a. Click ⊞ **Add**, then enter the target name.
  b. Click a cell to select the reporter dye, quencher, and color.
  c. (*Optional*) Select **Action ▸ Save to Library** to save the target definition for later use.

  (In Genotyping experiments, SNP assays are defined instead of targets, using a different procedure; see "Set up the Genotyping experiment in the software" on page 51.)
- Define the samples in the Samples table.
  a. Click ⊞ **Add**, then enter the sample name.
  b. Click the color cell to select the color.
  c. (*Optional*) Select **Action ▸ Save to Library** to save the sample definition for later use.
- (*Optional*) In the Passive Reference pane, select a dye.