

**Setup Guide for the TaqMan® hPSC Scorecard™ Panel on the ViiA™ 7 Real-Time PCR System**

## TaqMan® hPSC Scorecard™ Panel Setup Guide for the ViiA™ 7 Real-Time PCR System

Use the following step-by-step instructions to support the TaqMan® hPSC Scorecard™ Panel on your real-time PCR instrument.

### Downloading the Template File

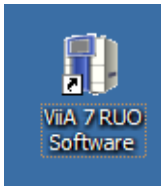
In order to run your ViiA™ 7 instrument, you will need to obtain a template file from the Life Technologies website that contains all of the necessary experimental parameters to run your instrument. To do this:

1. Download either the *96w FAST ViiA 7 Template.edt* file or the *384w Standard ViiA 7 Template.edt* file (depending on the block type you are planning on using) from the Life Technologies website at [lifetechnologies.com/scorecardinstrument](http://lifetechnologies.com/scorecardinstrument)
2. Save the template file (.edt) to your computer.

### How to Perform a Run from your ViiA™ 7 Software

After you have downloaded the template file, and loaded the sealed reaction plate into the ViiA™ 7 instrument, prepare to run the instrument by:

1. Double click the ViiA™ 7 icon to open the software.

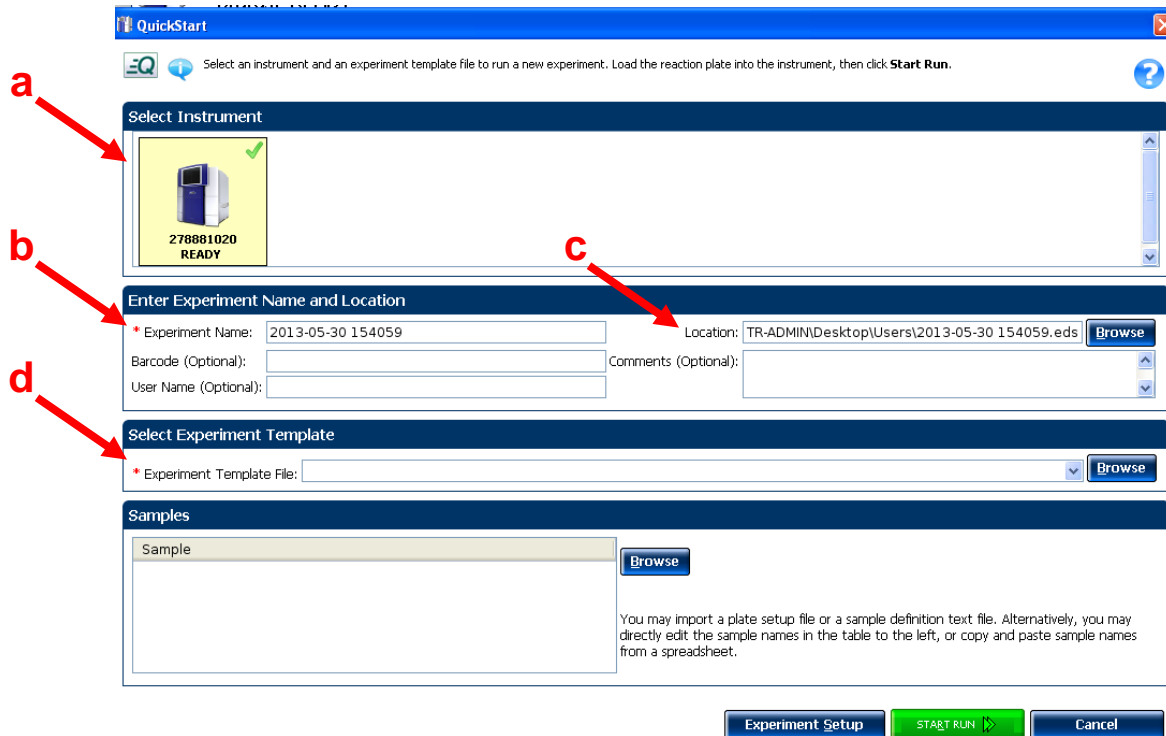


2. From within the ViiA™ 7 Software, select the “Quick Start” button located on the main screen of the software.



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3. The Quick Start menu will appear as shown below. On this screen fill-in/select the following information:
  - a. Select the appropriate ViiA™ 7 instrument
  - b. Fill in the appropriate “Experiment Name”
  - c. Specify the location where you want the data file to be saved to (optional)
  - d. Select the appropriate Experiment Template file that you downloaded from the Life Technologies web site. (see above)




The screenshot shows the 'QuickStart' window with the following sections:

- Select Instrument:** A list box containing one entry: '278881020 READY' with a green checkmark icon.
- Enter Experiment Name and Location:**
  - Experiment Name: 2013-05-30 154059
  - Location: TR-ADMIN\Desktop\Users\2013-05-30 154059.eds
  - Barcode (Optional):
  - User Name (Optional):
  - Comments (Optional):
- Select Experiment Template:**
  - Experiment Template File:
- Samples:** A table with one header 'Sample' and a 'Browse' button.

At the bottom of the window are three buttons: 'Experiment Setup', 'START RUN', and 'Cancel'.

**Note:** There is no need for you to modify any of the experimental parameters or assign the samples. This information is already contained within the template file that you opened.

4. Initiate the qPCR run by selecting the **Start Run** button  located in the lower right-hand corner of the screen.
5. The ViiA™ 7 will perform the qPCR run.

Typical Run times:

- 96 well FAST block: 30 min
- 384 well Standard block: 120 min

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- After the qPCR run is complete, navigate to the “Analysis” section of the left-hand menu of the ViiA 7™ Software. Select all wells if they are not highlighted in the Plate Layout section of the user interface. Click the green “Analyze” button to calculate Ct values for each well from the amplification plots generated during the run.




- Click “Save”. You are now ready to upload your data into the hPSC Scorecard™ Analysis Software for analysis.

Access to the hPSC Scorecard™ Analysis software can be obtained by visiting [lifetechnologies.com/scorecarddata](http://lifetechnologies.com/scorecarddata) or by navigating to the Life Technologies web site.

**How to Perform a Run using the Touch Screen on your ViiA™ 7 Instrument**

You can run a pre-existing template directly from the touch screen of your ViiA™ 7 Instrument. For easy future access, it is helpful to create a shortcut to the template on the screen. After you have created the shortcut, you just need to press the shortcut button and go for all future runs.


**To create a shortcut button:**

- Touch  **Settings** to open the Settings Menu.
- Touch **Set Up Shortcuts** to list the Shortcut Targets.
- On the Shortcut Targets list screen, select an existing template Shortcut Target button or an unused button.
- Touch **Set Shortcut**. If you selected an unused button, then touching Set Shortcut will list out the templates and folders to set the shortcut for.

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5. Under the From  **Templates tab**, select the template for which you are creating the shortcut button.

**To initiate a run:**

1. Load your sealed plate into the ViiA™ 7 instrument
2. Touch the pre-defined experiment button (created in the previous section) and the instrument will initiate the run.
3. After the qPCR run is complete, save your data to a media stick, and you are now ready to upload your data into the hPSC Scorecard™ Analysis Software for analysis.

Access to the hPSC Scorecard™ Analysis software can be obtained by visiting [lifetechnologies.com/scorecarddata](http://lifetechnologies.com/scorecarddata) or by navigating to the Life Technologies web site.

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