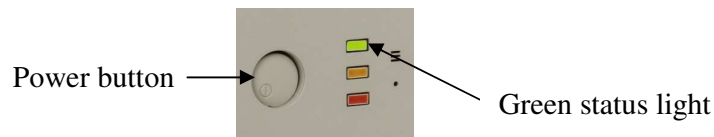


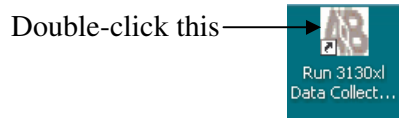
Applied Biosystems 3130x/ Step-by-Step Guide

A. Starting the 3130x/ system

1. Turn on the computer and log on.
2. Wait until the Desktop appears and all programs have finished loading (hard drive light on computer stops flashing).
3. Turn on the instrument by pressing the power button. The amber status light should come on and will start blinking in a few moments. The green status light will then come on, start blinking, and then remain steadily lit. This will take several minutes.
4. Ensure that the green status light is on and steady before proceeding to the next step.

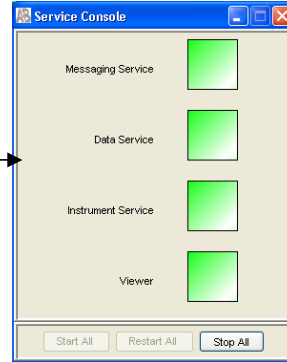


5. Double-click the icon of the 3130x/ Data Collection software to start it.

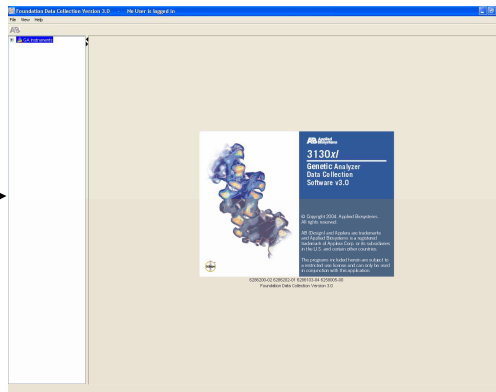


6. A splash screen of the Data Collection software should appear, followed by the window of the Service Console. The indicators for the four services in the Service Console will change from a red circle to a yellow triangle to a green square in sequence and from top to bottom. When the indicator for the Viewer turns to a square green, the Viewer window itself will appear. Leave the Service Console running, minimize the window if desired. **DO NOT AT ANY TIME CLOSE THE WINDOW OF THE SERVICE CONSOLE**
7. If the Viewer Window is accidentally closed, right-click on the red circle of the Viewer service in the Service Console, left-click on the choice for 'restart' to restore the Viewer Window.

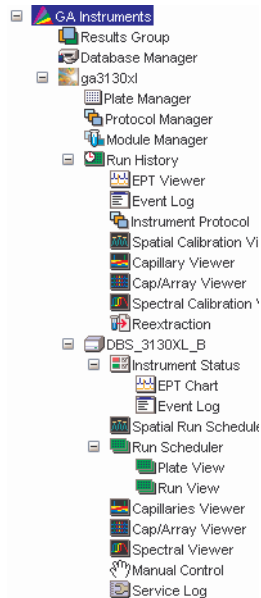
Service Console – LEAVE IT RUNNING



Viewer



- Click on the '+' symbols on each item on the left side of the viewer to expand the list. Click all '+' symbols that appear until they turn to '-' symbols and the list appears similar to this:



B. Creating a Plate Record

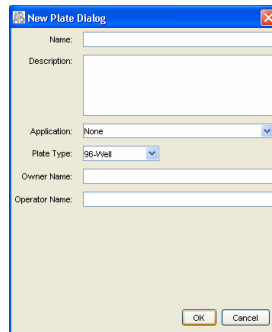
1. Click on the Plate Manager entry on the left-hand list of items to highlight it:



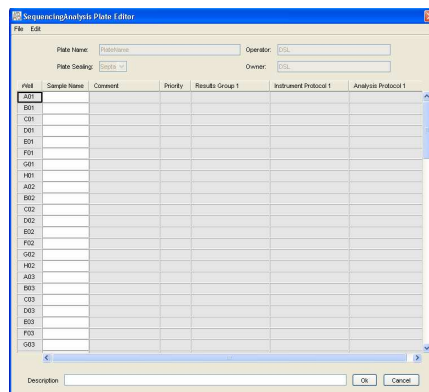
2. The Plate Manager appears on the main area of the Viewer. Click on the 'New' button found at the bottom of the Plate Manager



3. A New Plate dialog box appears. Fill in the appropriate entries. 'Name' is the name of the plate. Choose the appropriate application from the drop-down list: for sequencing, choose 'SequencingAnalysis'. Choose the appropriate plate type from the drop-down list. Fill in the 'Owner Name' and 'Operator Name' entries to facilitate data collection. Click on the 'OK' button to proceed.



4. A Plate Editor window appears. Fill in the sample names (ensure correspondence of sample names with well positions) and the appropriate Results Group, Instrument Protocol and Analysis Protocol. Write comments, if desired. Ignore the Priority column. Do not give sample names to empty wells, leave them blank. Click on the 'OK' button to proceed.



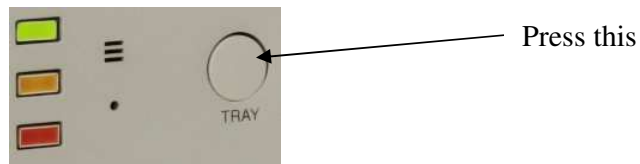
Well	Sample Name	Comment	Priority	Results Group 1	Instrument Protocol 1	Analysis Protocol 1
A01						
B01						
C01						
D01						
E01						
F01						
G01						
H01						
I01						
J01						
K01						
L01						
M01						
N01						
O01						
P01						
Q01						
R01						
S01						
A02						
B02						
C02						
D02						
E02						
F02						
G02						
H02						
I02						
J02						
K02						
L02						
M02						
N02						
O02						
P02						
Q02						
R02						
S02						
A03						
B03						
C03						
D03						
E03						
F03						
G03						
H03						
I03						
J03						
K03						
L03						
M03						
N03						
O03						
P03						
Q03						
R03						
S03						

C. Running a Plate

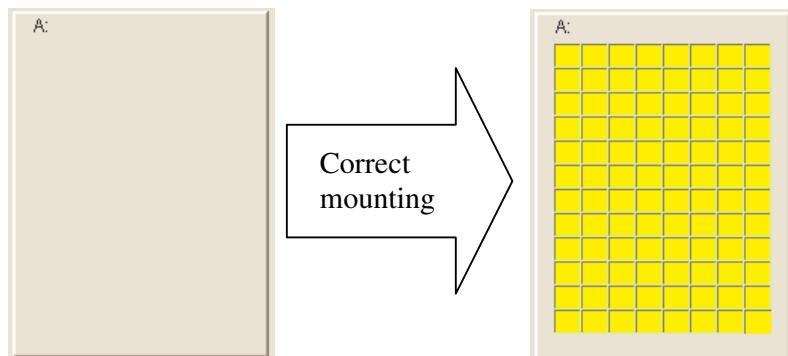
1. Click on the Plate View entry under the Run Scheduler entry on the left-hand list to highlight it.



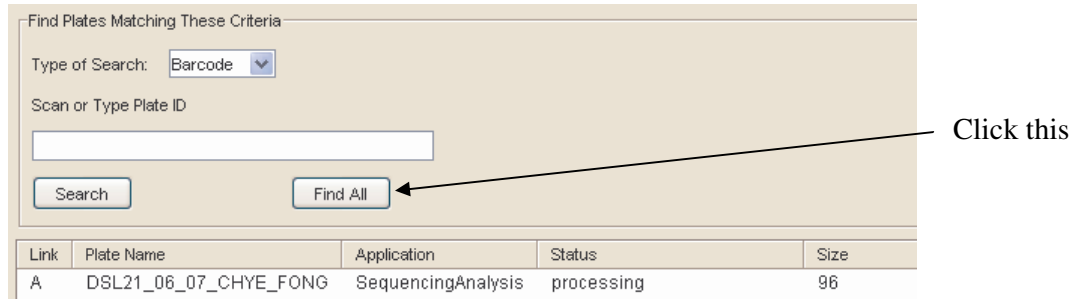
2. Prepare the plate assembly. Ensure proper plate assembly to prevent damage to the capillaries.
3. Press the TRAY button once on the instrument to bring the autosampler forward. Wait for the autosampler to stop moving before proceeding to the next step.



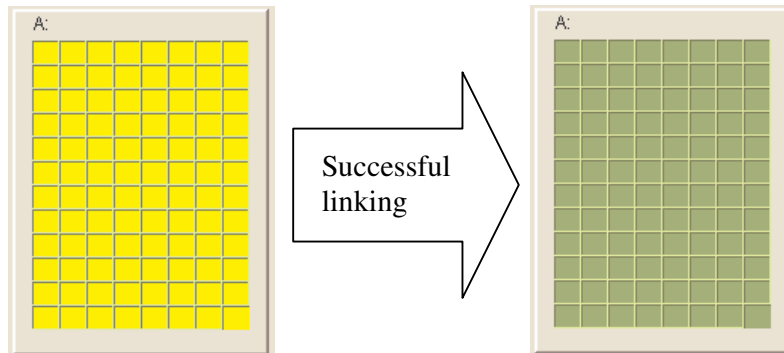
4. Open the right door of the instrument. Orient the plate assembly so that the beveled corner of the plate faces toward you. Carefully mount the plate assembly on the autosampler in either the 'A' or 'B' position. The plate assembly should drop in easily if correctly mounted. A yellow plate diagram will also appear on screen if the plate assembly is correctly mounted:



5. Click on the Find All button to find your plate



6. Locate your plate in the list. Its status should be “pending”. Click on the plate name to highlight it. Click on the diagram of the plate to link the plate record with the plate. The diagram should change from yellow to green to indicate successful linking:



7. Close the door of the instrument. The autosampler will move to its home position automatically. Wait for this to complete before proceeding. Click on the button at the upper left corner of the Viewer to start the run. The software will tell you that you are about to start a run. Click on the ‘OK’ button to proceed.



8. Click on ‘Instrument Status’ on the left-hand list to leave the instrument in the Instrument Status view.

