MetaXpress® 6 Software Guide

Viewing Z Series Image Sets in Review Plate Data

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Chapter Purpose

The purpose of this chapter is to guide the user through viewing Z Series images in **Review Plate Data** post-acquisition in both thumbnail montage and full resolution formats. Z Series images can be viewed as a thumbnail montage (filmstrip-like view), a series of individual high resolution images, or in a single stack (.stk) file.
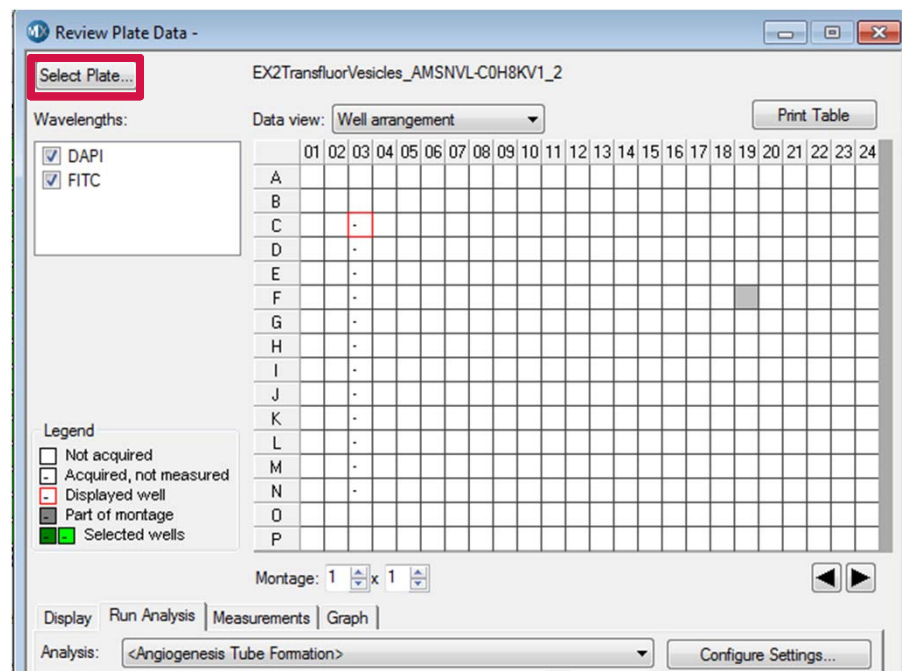
2
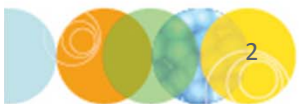
Viewing Z Series Images

1. Open **Review Plata Data**

   - In the main toolbar click on
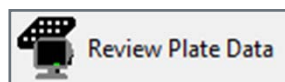
     OR
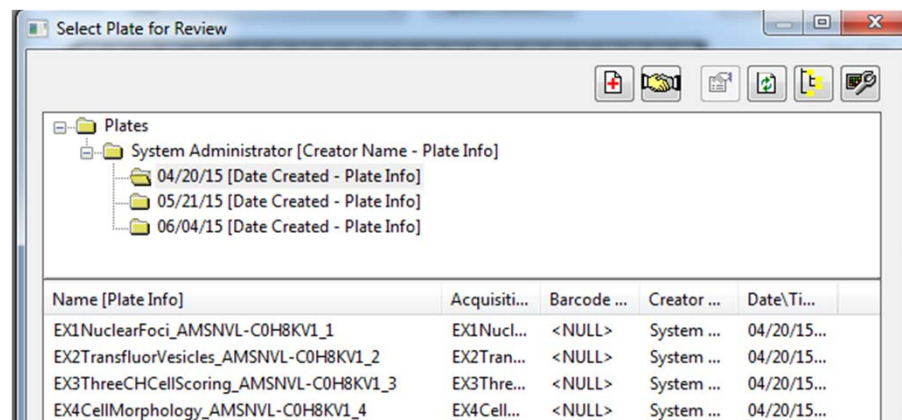
   - Under the **Screening** menu, select **Review Plate Data**

2. Click on the **Select Plate** button

3. Browse through the folders to open the plate of interest

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Viewing Single Z Step from Multiple Wells

4. In order to view a thumbnail montage of multiple wells at a single Z step, change the **Data View** to **Well Arrangement**
   - Select desire **Z Step** in the Z Step Section
   - Left-click to select a range of wells to display in thumbnail montage
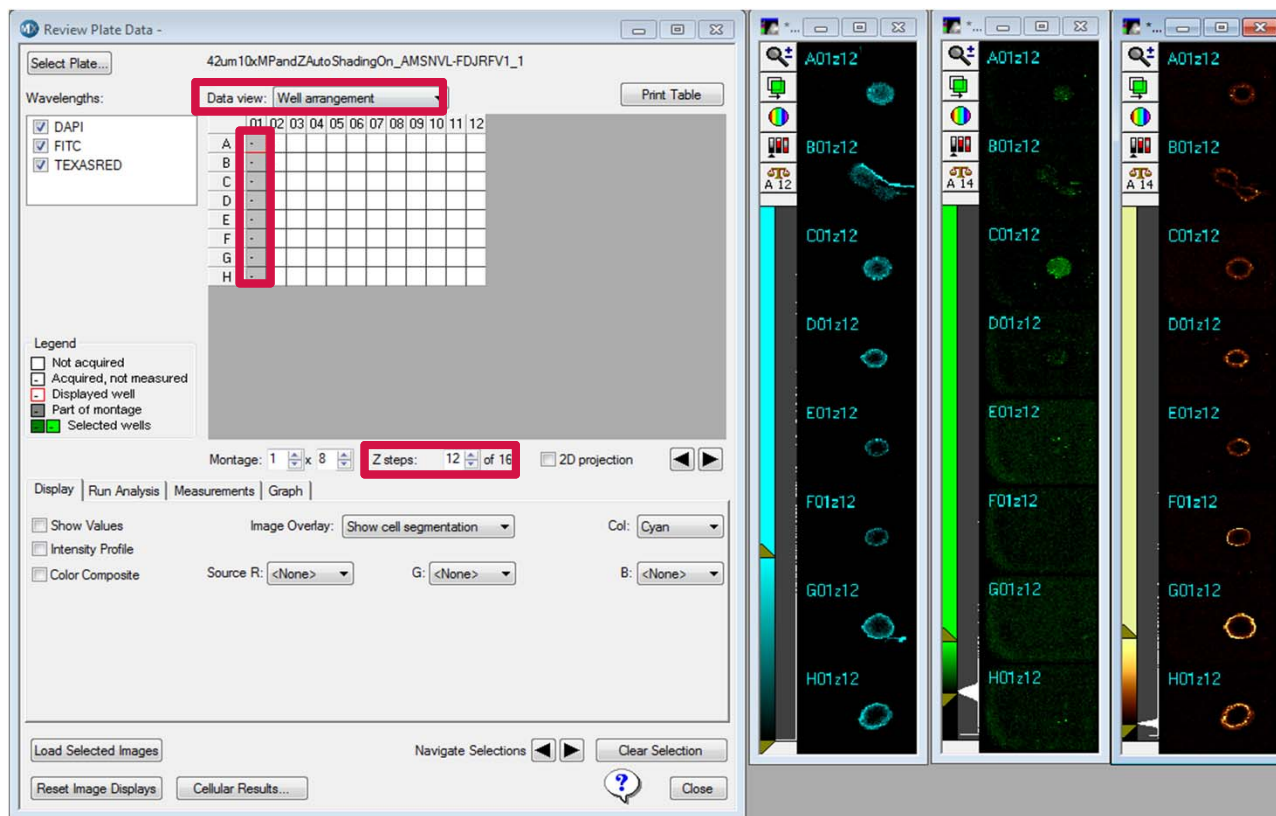
Viewing Multiple Z Steps from Multiple Wells
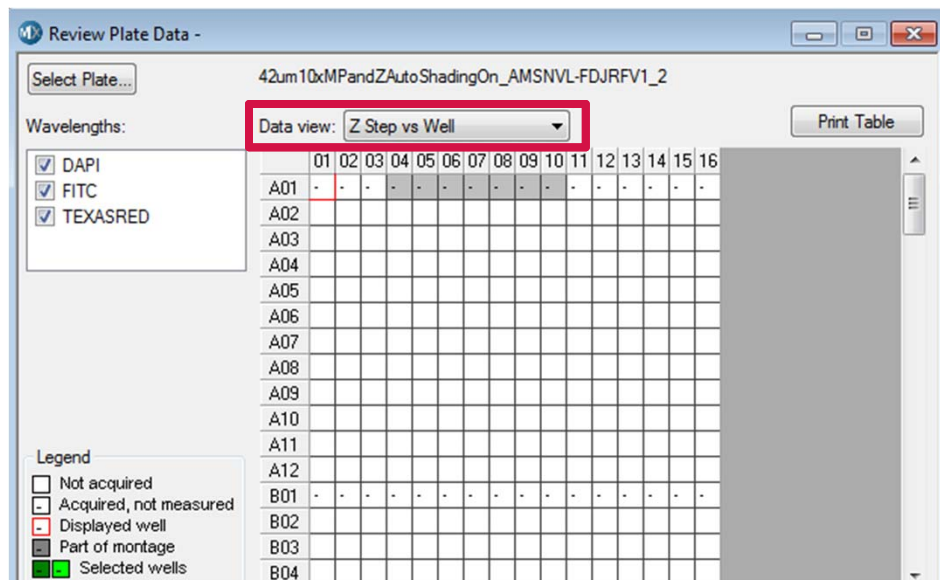
5. In order to view a thumbnail montage (filmstrip) of multiple Z Series, change the **Data View** to **Z Steps vs Well**
   - Plate View now changes such that Z steps are arrayed in the X direction and the Well ID arrayed in the Y direction
   - Click and drag to select a range of Z steps or select a range of adjacent wells to create a Z Series thumbnail montage

Z step montage for your selected well(s). The annotation indicates both well ID and Z step (z1, z2, z3, etc.) in the upper left corner of each thumbnail image.

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Viewing High Resolution Images
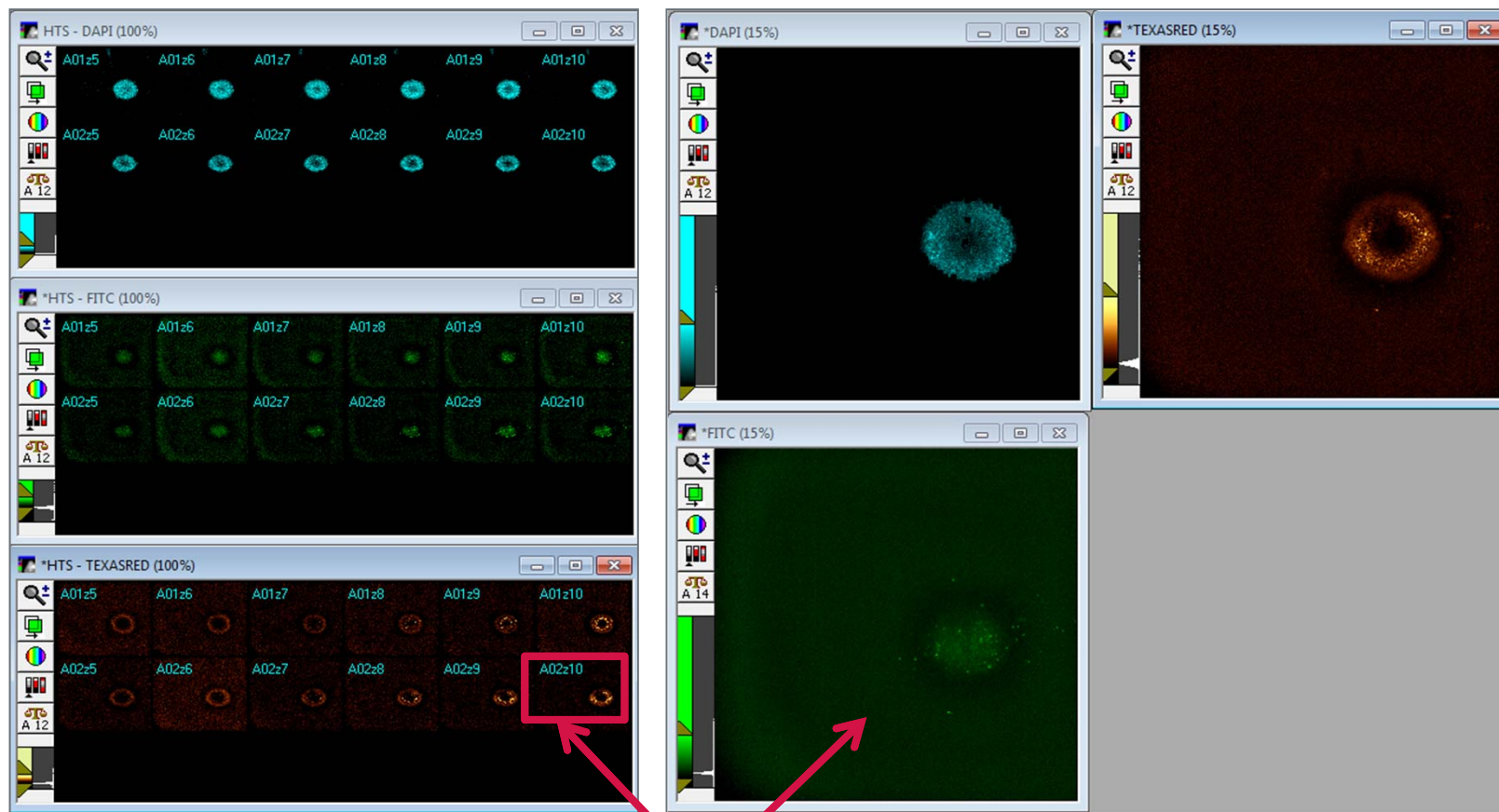
To review high resolution images from selected wells click on any thumbnail image in any of the montages to open the corresponding high resolution image set.
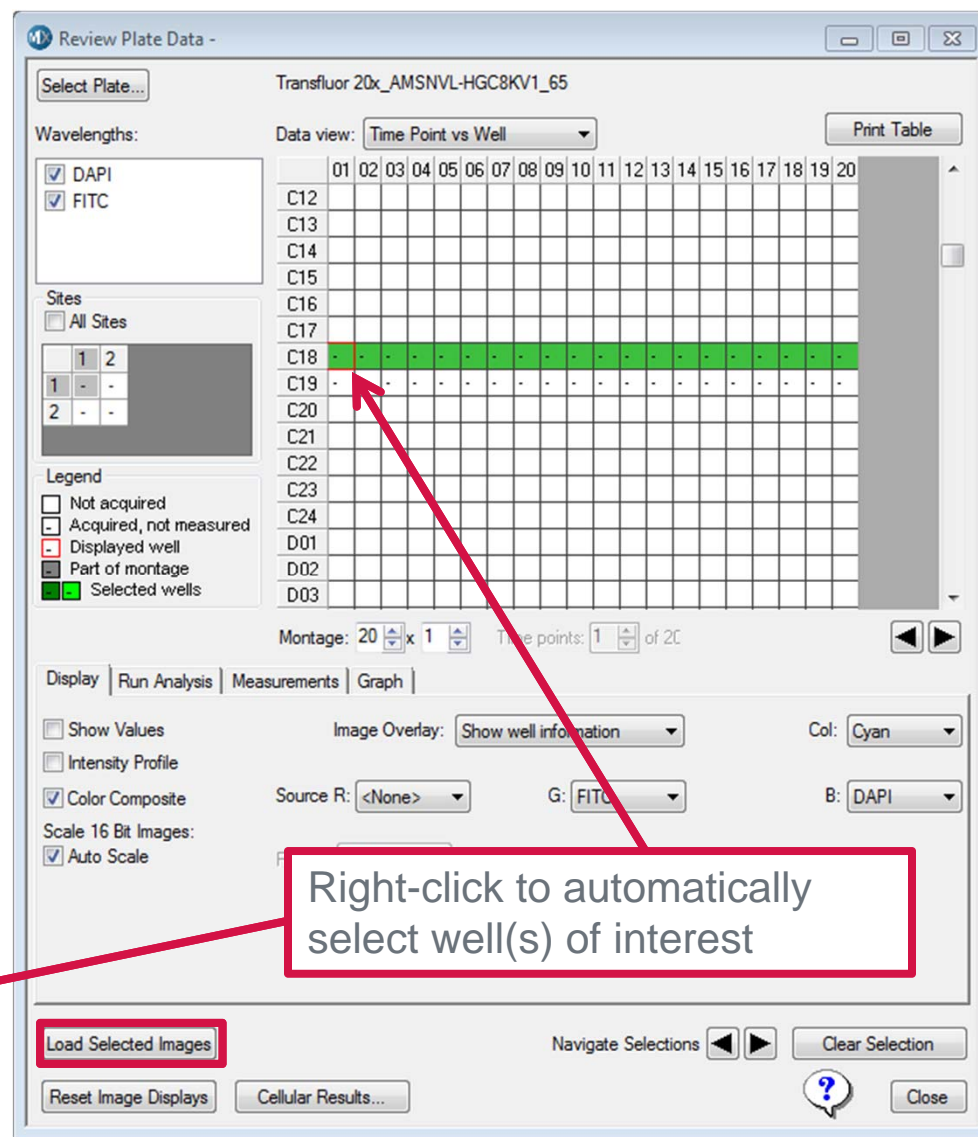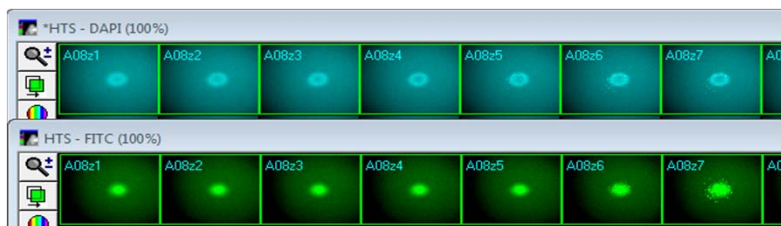
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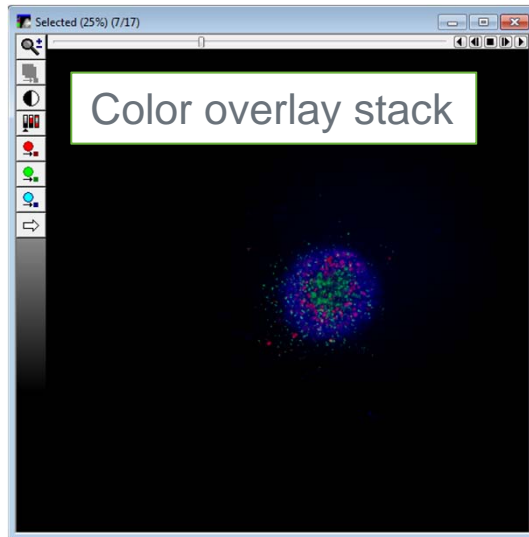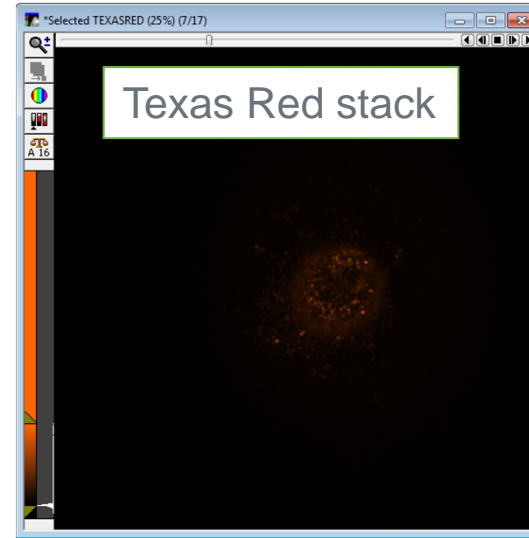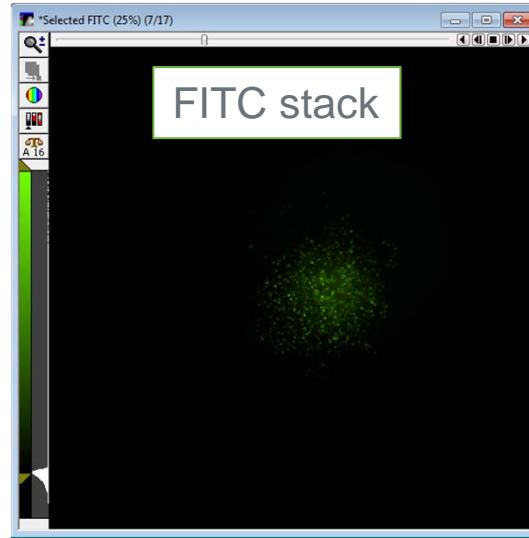
Viewing Z Series as a Stack

6. To create a stack (.stk) file of a Z Series of images from one site/well

   - Right-click on a well of interest either in the Plate View or in the thumbnail montage
   - Corresponding images and well will be highlighted in green
   - Click on the Load **Selected Images** button

   NOTE If you have more than one site per well, then deselect **All Sites** and highlight only one site to view.

Right-click to automatically select well(s) of interest

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Scrolling Through Z Series Images in a Stack

DAPI stack

FITC stack

Texas Red stack

Color overlay stack
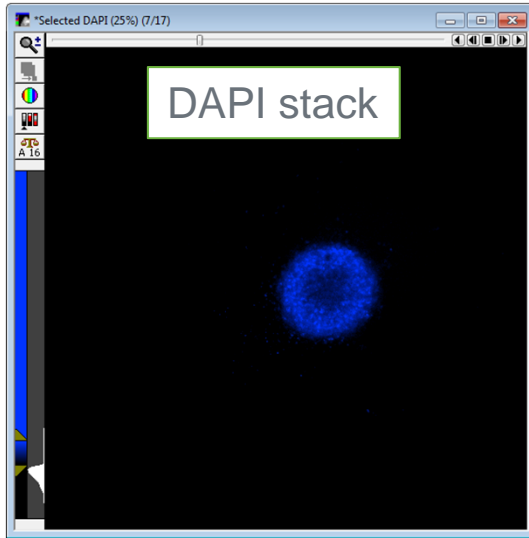
To scroll through the Z stack, click and drag the image slider or use the playback controls.

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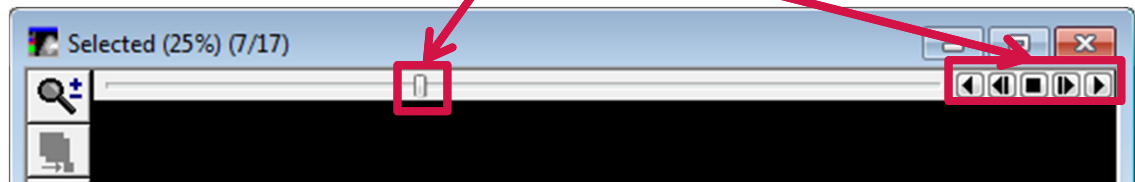
Viewing Individual Wavelengths or Color Overlays

7. Select the **Display** tab to turn color composite on or off
    - To view channels separately uncheck **Color Composite**
    - To view a color overlay of channels, enable **Color Composite** and select the corresponding R, G, and B images from the source drop-down menus
    - Refer to corresponding chapters on creating overlay images

6. Click on **Load Select Images** button to load the Z Series into a stack (.stk) file

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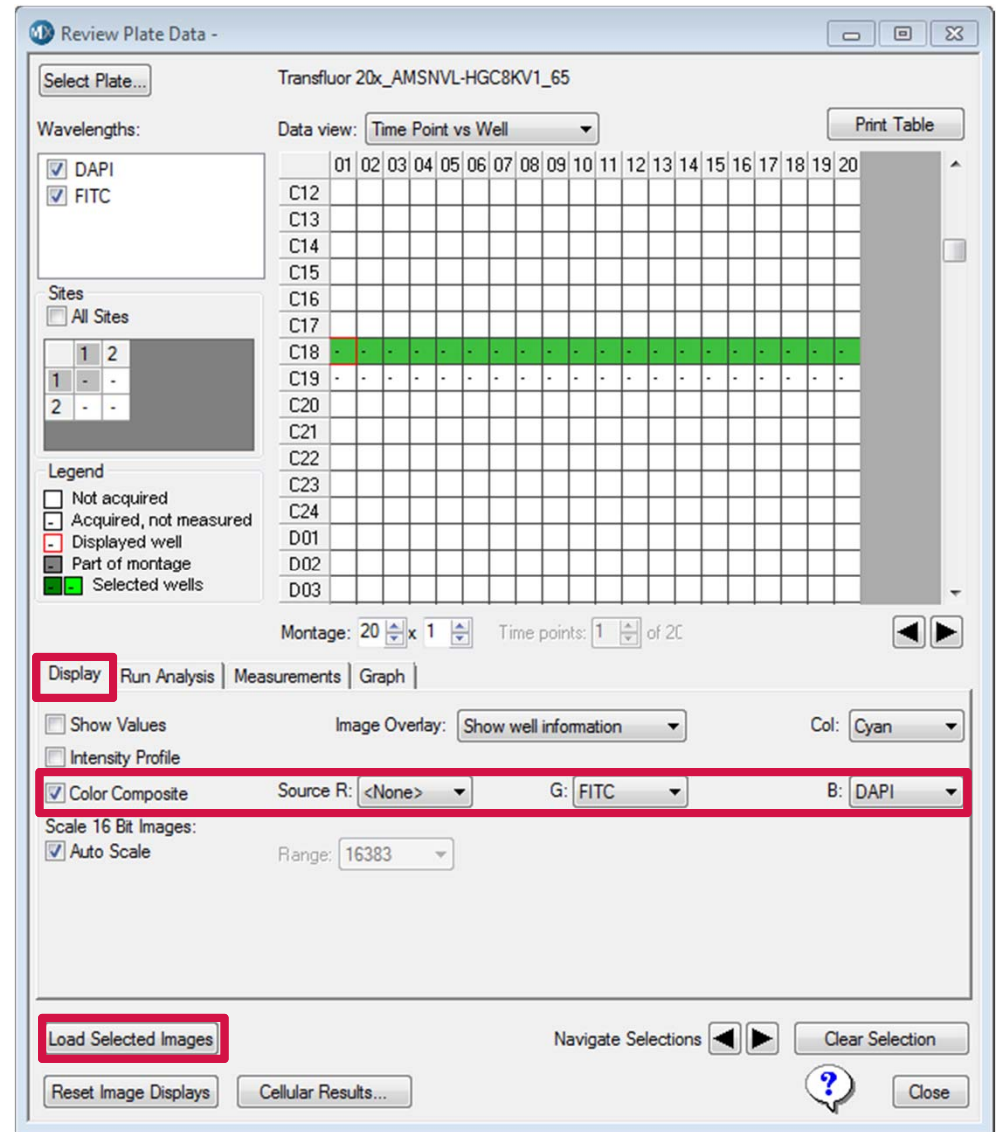
Support Resources

- F1 / HELP within MetaXpress® Software

- Support and Knowledge Base: http://mdc.custhelp.com/

- User Forum: http://metamorph.moleculardevices.com/forum/

- Request Support: http://mdc.custhelp.com/app/ask

- Technical Support can also be reached by telephone:
  - 1 (800) 635-5577
  - Select options for Tech Support → Cellular Imaging Products → ImageXpress Instruments

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