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Protocol status: Working We use this protocol and it's working

Created: Apr 15, 2024

Creating Plate Layout in FIVTools

Forked from Creating Plate Layout in FIVTools

Jason Waligorski¹

¹Washington University School of Medicine @FIVE

Washington University FIVE @ MGI



Jason Waligorski

Washington University School of Medicine @FIVE

ABSTRACT

Plate layout creator in FIVtools

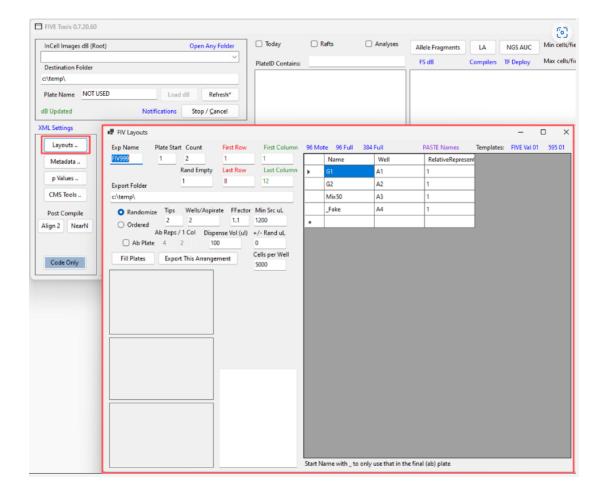
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PROTOCOL integer ID: 98210

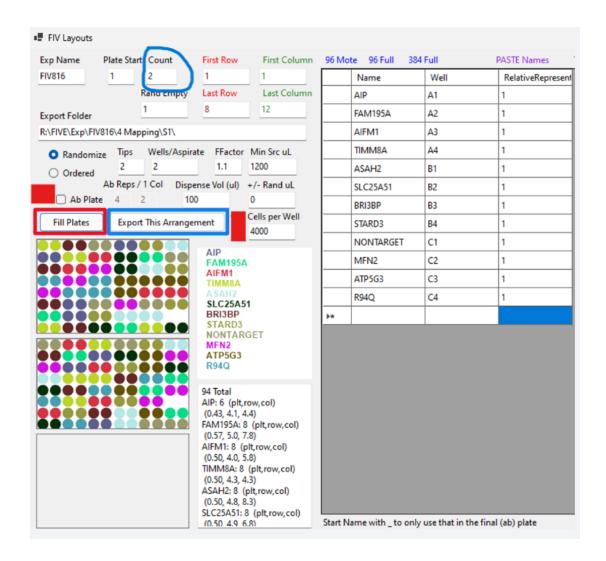
Creating Plate Layout in FIVTools

1 Open FIVTools

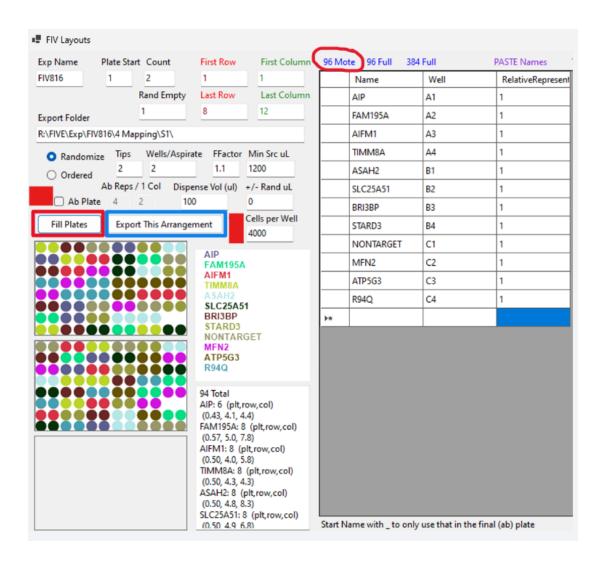
2 Click Layouts



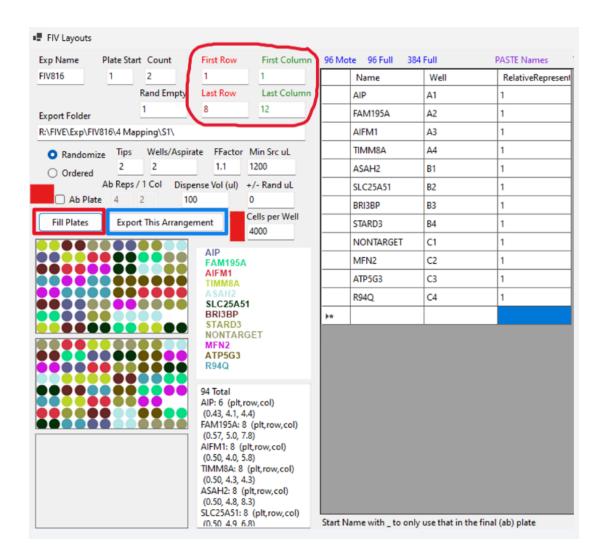
- 3 Update *Exp Name* field (highlighted in blue above) to the corresponding FIV experiment Number (make sure to keep "FIV" in the name)
- 4 Click once on the *Export Folde*r field so it updates the folder location based on the corresponding FIV experiment number
- 5 Choose the desired number of 96-well plates by typing 1, 2, 3, or 4 in Count



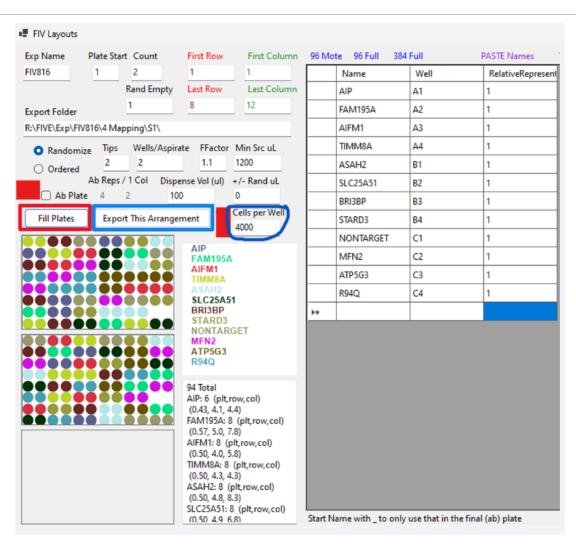
6 Select 96 Mote to exclude plating from the outermost wells



- 7 Select "384 Full" for a 384 well plate
- If the layout is not standard (does not fall within 96 mote, 96 full, or 384 full), adjust the *First Row, First Column, Last Row,* and *Last Column* fields to fit your custom plate format.

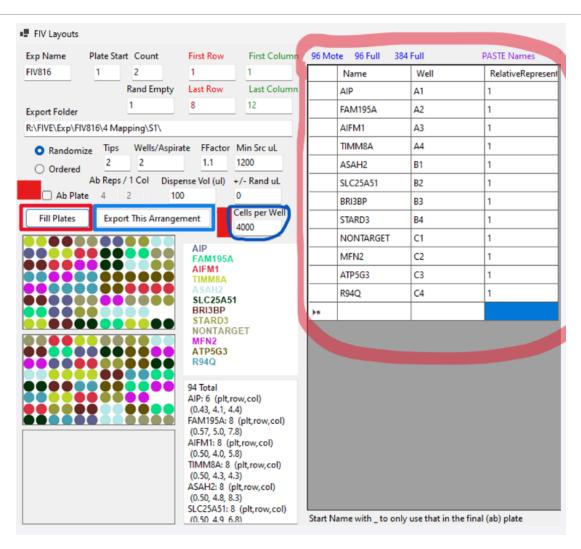


- If doing an antibody plate, check the "Ab Plate" box and:Make "Count" = 0 for one antibody plateMake "Count" = 2 for two 96-well plates and an antibody plate
- 10 Change "Cells per Well" to desired plating density



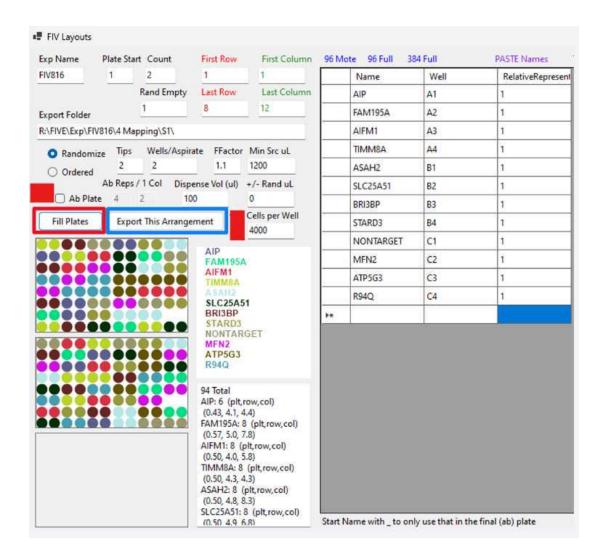
11 Copy experimental condition names (often genotypes, dosages, G1/G2, etc.) and click "PASTE Names" to auto-fill the 12-well source plate.

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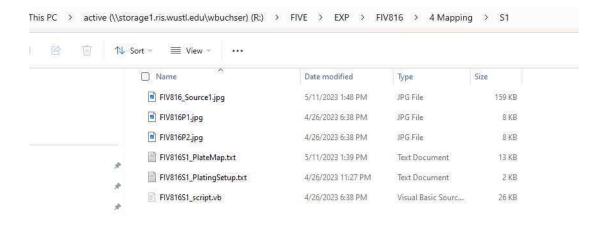
- 12 Name can also be manually filled
- The *Well* column can only have row/column combinations of a 12-well plate (A-C, 1-4). Please note which names (experimental conditions) correspond to which wells.
- 14 Relative Representation allows you to assign different weights for representation in the 96-well plates

- Use the underscore symbol to have a cell type only show up in the antibody plate layout (for example: "_cell type")
- 16 Click Fill Plates (in red)



A randomized plate layout will be populated based on your input criteria. Each condition will have a unique color in the layout window. Try to make sure the empty wells (positions with white space/no circles) are not on any edges. Also if doing multiple plates, make sure the empty wells are oriented differently across plates.

Go into the "4 Mapping" folder of the respective FIV experiment folder and make sure there is a PlateMap, PlatingSetup, and script.



19 After source and destination plates are physically created, excute Biomek plating in accordance with

Biomek 96-well plating - Google Docs