# Station C: SLP-007 (3 Reagents) for Primer Addition for COVID-19 Setup guide

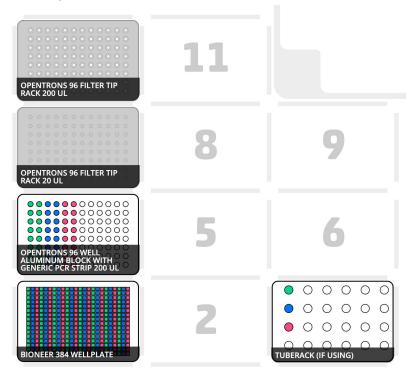
#### **Code parameters:**

- Tip tracking (line 12) if set to 'True', protocol will save the state of the tips after each run and will prompt user to replace tips when tips run out.
- Rack definition (line 13) define the labware that will be used to hold the tubes of N1 and N2, if automating transfer to PCR strips
- Pipette controls (line 14) if set to 'True', protocol will pipette 35μL of primers to PCR strip from tube rack (as defined in line 13)

## Pipettes:

- P20 Multi-Channel Pipette on the left mount
- P300 Single-Channel Pipette on the right mount, if doing optional step

## **Deck Layout:**



## Labware and module requirements:

- 1 x Bioneer 384-well plate
- 1 x Opentrons 96-well aluminum block
- 6 x PCR strips
- 1 x Opentrons 20µL Filter Tipracks
- 1 x Opentrons 200µL Filter Tipracks
- 1 x Opentrons 24-well Tuberack, optional

#### Slot 4, Opentrons Aluminum Block + PCR Tubes -

Column 1: N1, 35µL Column 2: N1, 35µL

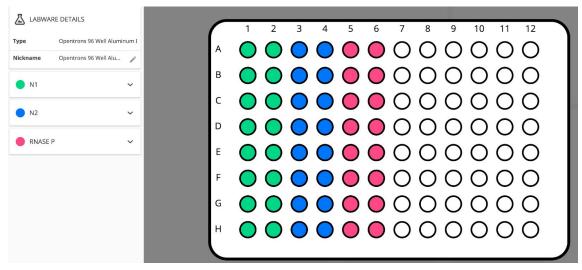
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Column 3: N2, 35µL Column 4: N2, 35µL

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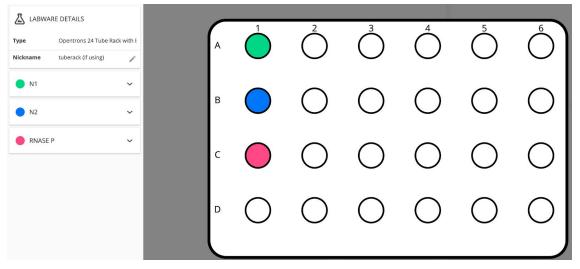
Column 5: RNAseP, 35µL Column 6: RNAseP, 35µL

\*Note: If PIP\_CTRL is set to True (line 14), the P300 Single-Channel Pipette will transfer 35µL from the Opentrons Tuberack to each corresponding well in empty PCR strips. Otherwise, the primer/probes should be manually transferred to PCR strips and loaded into the aluminum block.



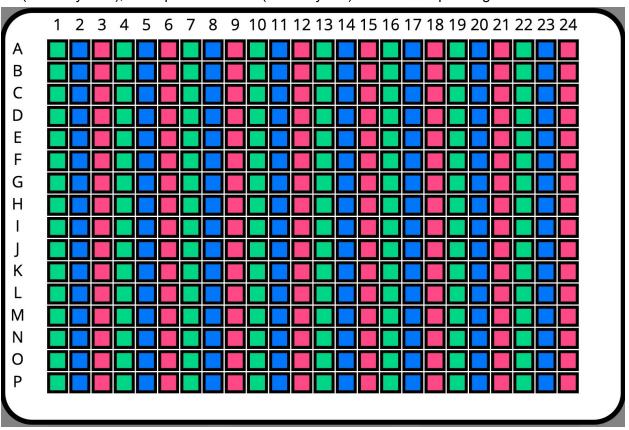
## Slot 3, Opentrons Tuberack, optional -

If using, load position A1 with a tube containing N1 (600 $\mu$ L), position B1 with a tube containing N2 (600 $\mu$ L), and a tube containing RNAseP (600 $\mu$ L) in position C1.



## Slot 1, Bioneer 384-well Plate (Final output) -

Schematic of plate layout at end of protocol; protocol will add  $2\mu L$  of N1 (noted by green),  $2\mu L$  of N2 (noted by blue), and  $2\mu L$  of RNAseP (noted by red) to the corresponding wells.



## Before you begin:

- 1. Add PCR strips to the aluminum block with N1/N2/RNAseP (or change line 14 to `True` to automate the transfer of N1/N2/RNAseP to PCR strips).
- 2. Calibrate pipette and labware.