NGS Library Prep - Protocol 1

Author

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Categories

- NGS Library Prep
  - KAPA HiFi

Description

This custom protocol performs part 1 of the KAPA HiFi NGS Library Prep kit. The operator is prompted to perform manual steps throughout the protocol.

Modules

- Opentrons Magnetic Module (GEN2)

Labware

- Thermo Scientific Nunc 96 Well Plate 2000 µL #278743
- Agilent 3 Reservoir 94630 µL #204249-100
- Thermo Scientific Nunc 96 Well Plate 2000 µL Bioshake #278743
- KingFisher 96 Deep Well Plate #95040450
- Agilent 96 Well Plate 200 µL #401490
- Opentrons 24 Tube Rack with Eppendorf 1.5 mL Safe-Lock Snapcap
- Opentrons 96 Filter Tip Rack 20 µL
- Opentrons 96 Tip Rack 300 µL

Pipettes

- Opentrons P300 8 Channel Electronic Pipette (GEN2)
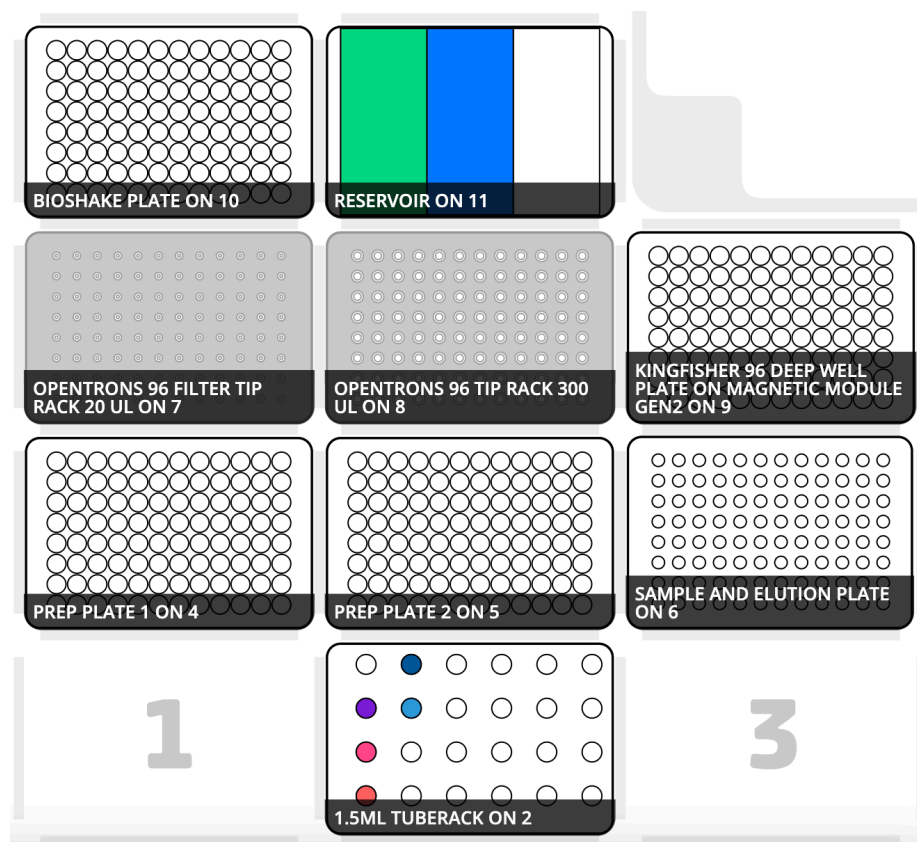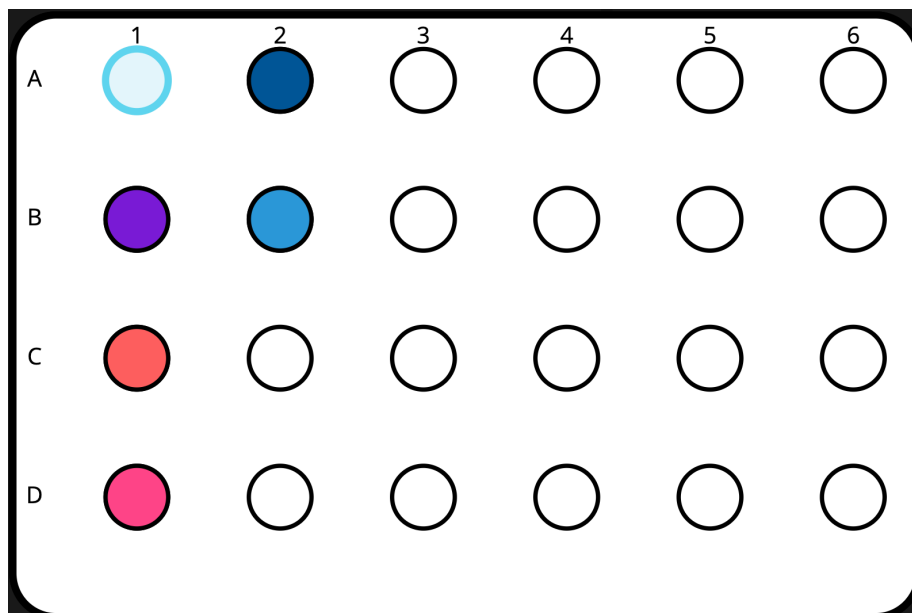- Opentrons P20 Single Channel Electronic Pipette (GEN2)

Figure 1: deck

Deck Setup

Reagent Setup

* A1: mastermix tube
* B1: water
* C1: buffer 3
* D1: buffer 4
* A2: primer 1
* B2: primer 4

Process

1. Input your protocol parameters above.
2. Download your protocol and unzip if needed.
3. Upload your custom labware to the OT App by navigating to `More` > `Custom Labware` > `Add Labware`, and selecting your labware files (.json extensions) if needed.
4. Upload your protocol file (.py extension) to the OT App in the `Protocol` tab.
5. Set up your deck according to the deck map.
6. Calibrate your labware, tiprack and pipette using the OT App. For calibration tips, check out our support articles.
7. Hit "Run".

Additional Notes

If you have any questions about this protocol, please contact the Protocol Development Team by filling out the Troubleshooting Survey.

Internal

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