

4 Loading the Chip

CAUTION! VORTEX THOROUGHLY AND CENTRIFUGE ALL ASSAY AND SAMPLE SOLUTIONS BEFORE PIPETTING INTO THE CHIP INLETS. FAILURE TO DO SO MAY RESULT IN A DECREASE IN DATA QUALITY.

IMPORTANT! FOR UNUSED SAMPLE INLETS, USE 3.48 μL OF SAMPLE MIX AND 2.52 μL OF WATER PER INLET.
FOR UNUSED ASSAY INLETS, USE 2.5 μL ASSAY LOADING REAGENT, 0.25 μL ROX AND 2.25 μL WATER PER INLET.

CAUTION! WHILE PIPETTING, *DO NOT* GO PAST THE FIRST STOP ON THE PIPETTE. DOING SO MAY INTRODUCE AIR BUBBLES INTO INLETS.

- 1 When the **Prime (139x)** script has finished, remove the primed chip from the IFC Controller HX and pipette 4 μL of each assay and 5 μL of each sample into the respective inlets on the chip.
- 2 Return the chip to the IFC Controller HX.
- 3 Using the IFC Controller HX software, run the **Load Mix (139x)** script to load the samples and assays into the chip.
- 4 When the **Load Mix (139x)** script has finished, remove loaded chip from the IFC Controller HX.
- 5 Remove any dust particles or debris from the chip surface.

You are now ready for your chip run.

CAUTION! START THE CHIP RUN ON THE BIOMARK SYSTEM IMMEDIATELY AFTER LOADING THE SAMPLES.

5 Using the Genotyping Data Collection Software

IMPORTANT! BE SURE TO SELECT ALL PROBE TYPES PRESENT IN YOUR EXPERIMENT. DATA ARE NOT COLLECTED ON UNSPECIFIED PROBES.

- 1 Double-click the Data Collection Software icon on the desktop to launch the software.
- 2 Click **Start a New Run**.
- 3 Check the status bar to verify that the lamp and the camera are ready. Make sure both are green before proceeding.
- 9 Click **Browse** to find the appropriate thermal protocol file **GT 96x96 Standard v1.pcl**.

● Camera Temperature: -5.0°C ● Lamp is on

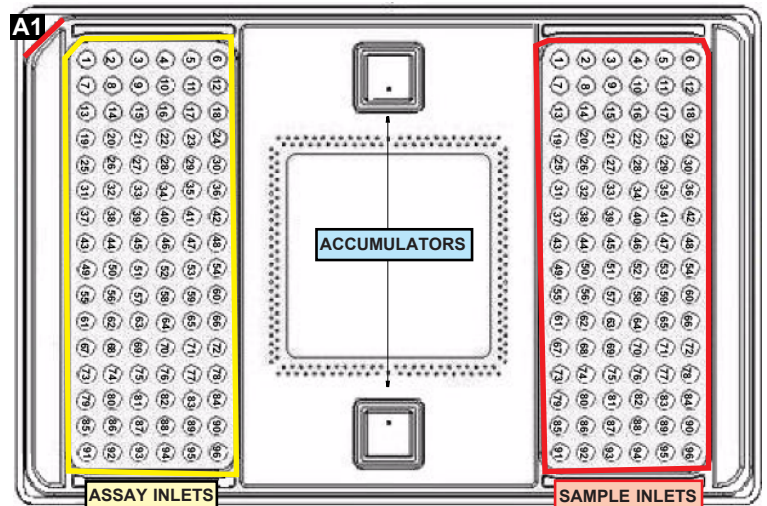
- 4 Place the chip into the reader.
- 5 Click **Load**.
- 6 Verify chip barcode and chip type.
 - a Choose project settings (if applicable).
 - b Click **Next**.
- 7 Chip Run file:
 - a Select **New** or **Predefined**.
 - b Browse to a file location for data storage.
 - c Click **Next**.
- 8 Application, Reference, Files:
 - a Select Application Type—**Genotyping**.
 - b Select Passive Reference (ROX).
 - c Select probe types.
 - d Click **Next**.

CAUTION! MAKE SURE THAT YOU USE A 96.96-SPECIFIC PROTOCOL.

- 10 Confirm **Auto Exposure** is selected.
- 11 Click **Next**.
- 12 Verify that the chip run information is correct.
- 13 Click **Start Run**.

NOTE TO RUN THIS PROTOCOL AS AN END-POINT AND USE THE FLUIDIGM STAND-ALONE THERMAL CYCLER OR THE FLUIDIGM FC1™ CYCLER, REFER TO THE FLUIDIGM STAND-ALONE THERMAL CYCLER USAGE QUICK REFERENCE (PN 68000111) OR THE FLUIDIGM FC1 CYCLER USAGE QUICK REFERENCE (PN 100-1250), RESPECTIVELY.

Chip Pipetting Map



Technical Support

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