USER GUIDE

Chromium Controller Readiness Test

with Chromium Next GEM Test Chip

FOR USE WITH

Chromium Controller & Next GEM Accessory Kit, PN-1000202
(Includes Chromium Next GEM Test Chip, PN-2000199)

10x
GENOMICS

Notices

Document Number

CG000222 • Rev F

Legal Notices

Instrument & Licensed Software Updates Warranties

Updates to existing Instruments and Licensed Software may be required to enable customers to use new or existing products. In the event of an Instrument failure resulting from an update, such failed Instrument will be replaced or repaired in accordance with the 10x Limited Warranty, Assurance Plan or service agreement, only if such Instrument is covered by any of the foregoing at the time of such failure. Instruments not covered under a current 10x Limited Warranty, Assurance Plan or service agreement will not be replaced or repaired.

Support

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Document Revision Summary

Document Number	CG000222
Title	Chromium Controller Readiness Test
Revision	Rev E to Rev F
Revision Date	August 2022

Specific Changes:

- Updated chip assembly guidance.
- Updated Chromium Next GEM Accessory Kit, Chip Gasket, and power cord part numbers.

General Changes:

- Updated for general minor consistency of language and terms throughout.

Chromium Accessories

Chromium Next GEM Accessory Kit, PN-1000142 (store at ambient temperature)

Product	#	PN (Item)
Chromium Next GEM Test Chip	1	2000199
Chromium Next GEM Secondary Holder	2	3000332
10x Vortex Adapter	3	330002
Chip Gaskets, 2 Pack	1	3000072
Magnetic Separator	1	230003
Strip Vortexer	2	230002
Cable USB A MALE - B MALE 1M BLK	1	3000173
Universal Power Cord, 10 Amp–250 V *(IEC 60320 C-14, with C-13 Detachable Adapters)*	1	3000603

1.0
Turn on the
Chromium Controller

a. Ensure the Chromium Controller is positioned in accordance with recommendations in the Chromium Controller Specifications.

b. Turn on the Chromium Controller using the power switch on the back of the unit.

c. The Chromium Controller touchscreen will indicate initialization is in progress.

d. When initialization is complete, press the button on the touchscreen of the Chromium Controller to eject the tray and remove the shipping block used for protection during shipping.

e. Press the button again to retract the tray (or the tray will automatically close after 60 sec).
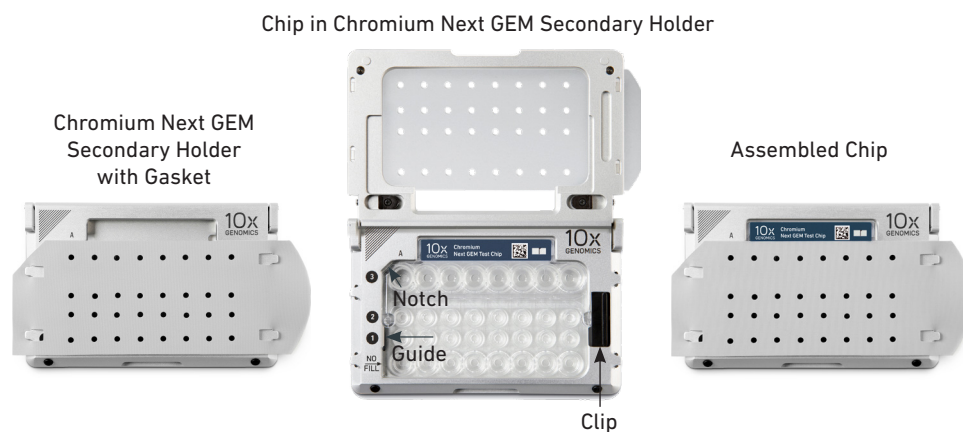
⚠ Firmware Version 4.0 or higher is required in the Chromium Controller used for the Chromium Controller Readiness Test with Chromium Next GEM Test Chip.

Power Entry Module   Power Switch

Remove Shipping Block

2.1
Assemble Chromium Next GEM Test Chip

Assemble Chromium Next GEM Chip

- Close the holder lid. Attach the gasket by holding the tongue (curved end, to the right) and hook the gasket on the left-hand tabs of the holder. Gently pull the gasket toward the right and hook it on the two right-hand tabs.

- DO NOT touch the smooth side of the gasket.

- Open the chip holder.

- Remove the chip from the sealed bag. Use the chip within ≤ 24 h.

- Align notch on the chip (upper left corner) and the open holder with the gasket attached.

- Slide the chip to the left until the chip is inserted under the guide on the holder. Depress the right hand side of the chip until the spring-loaded clip engages.

- Close the holder lid.

Chip in Chromium Next GEM Secondary Holder

Chromium Next GEM
Secondary Holder
with Gasket

Assembled Chip

Notch

Guide

Clip

3.0
Run the Chromium Controller

a. Press the touchscreen of the Chromium Controller to display options.

b. Press the eject button on the touchscreen to eject the tray.

c. Place the assembled chip with the gasket in the tray (align the diagonal etchings on the top left corner of the Chromium Next GEM Secondary Holder and the back left corner of the tray). Press the button to retract the tray.

d. Confirm the Chromium Test program on screen. Press the play button.

e. At the completion of the run (**~3 min**), the Chromium Controller will chime. Press the button to eject the empty tray.

f. If there are any problems during this process, contact support@10xgenomics.com for further assistance.

g. Save the Chromium Next GEM Secondary Holder for use with your Chromium Controller. The 10x Gasket and Test Chip should also be stored.

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