

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)

Notices

Document Number

CG000222 • Rev E

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**Document
Revision
Summary**

Document Number	CG000222
Title	Chromium Controller Shipping Guide
Revision	Rev D to Rev E
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Specific Changes:

- Updated instructions due to change in packaging materials.

General Changes:

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

Chromium Accessories Chromium Next GEM Accessory Kit, PN-1000227 (store at ambient temperature)

Product	#	PN (Item)
Chromium Next GEM Test Chip	1	2000199
Chromium Next GEM Secondary Holder	2	3000332
Vortex Adaptor	3	330002
Chip Gaskets, 2 Pack	1	3000441
Magnetic Separator	1	230003
Strip Vortexer	2	230002
Cable USB A MALE - B MALE 1M BLK	1	3000173
Power Cord	1	340001

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.



2.1 Assemble Chromium Next GEM Test Chip



Assemble Chromium Next GEM Test Chip

- Align notch on the chip (upper left corner) and the holder.
- Insert the left-hand side of the chip under the guide. Depress the right-hand side of the chip until the spring-loaded clip engages.
- Close the lid.

Chromium Next GEM Test Chip

Notch



Chromium Next GEM
Secondary Holder

Notch



Assembled Chip



2.2 Attach the Gasket

Attach 10x Gasket

- Attach the gasket by holding the tongue (curved end, to the right) and hook it on the left-hand tabs of the holder (align the notch with the top left-hand corner).
- Gently pull the gasket toward the right and hook it on the two right-hand tabs. Ensure the gasket holes are aligned with the wells.
- DO NOT touch the smooth side of the gasket. DO NOT press down on the top of the gasket after attachment.



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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