



Feb 11, 2025

Version 1

CUMC-TMC-10X-Chromium-Next GEM Single Cell Multiome ATAC + Gene Expression V.1

DOI

<https://dx.doi.org/10.17504/protocols.io.e6nvwb45dvmk/v1>

Shaunice Grier¹

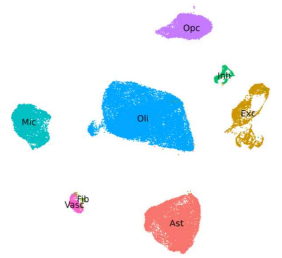
¹Columbia University

Cellular Senescence Net...



Shaunice Grier

Columbia University, Columbia University Irving Medical Cent...



Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.e6nvwb45dvmk/v1>

Protocol Citation: Shaunice Grier 2025. CUMC-TMC-10X-Chromium-Next GEM Single Cell Multiome ATAC + Gene Expression. protocols.io <https://dx.doi.org/10.17504/protocols.io.e6nvwb45dvmk/v1>



License: This is an open access protocol distributed under the terms of the **[Creative Commons Attribution License](#)**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: February 10, 2025

Last Modified: February 11, 2025

Protocol Integer ID: 119886

Keywords: chromium next gem single cell multiome atac, next gem single cell multiome atac, gene expression post mortem human central, 10x genomic, post mortem human central nervous system tissue, atac, gene expression user guide, gene expression, same tissue block, genomic, nervous system tissue, post mortem human central, rna, nuclei, gene, same balance of cell type

Abstract

Post Mortem Human Central Nervous System tissue is sectioned at 50 μm thickness from the same tissue block and plane from previous Visium ST experiments. This method is used to capture the same balance of cell types and cortical layers across both techniques for each subject. Nuclei is isolated from frozen post-mortem CNS samples. RNA/ATAC sequencing was performed according to the 10X Genomics' Chromium Next GEM Single Cell Multiome ATAC + Gene Expression User Guide (CG000338 Rev F).

Attachments



CG000338_ChromiumN

ex...

4.8MB

Guidelines

Protocol needs prior approval by the users' Institutional Review Board (IRB) or equivalent ethics committee(s)

