10x GENOMICS

Quick Reference Cards | CG001675 | Rev B

Atera Sample Placement

Alignment Tool Use and Manual Instruction

For use with:

Atera Instrument Bundle, *PN-1001128*

Atera Instrument Accessory Kit, *PN-1001179*

Atera Tissue Alignment Tool, *PN-1001176*

If printing this document:
Select "100%" to print to scale. Measure slide diagrams to verify.

Atera
Document Revision Summary

Document Number
CG001675 | Rev B

Title
Atera Sample Placement - Alignment Tool Use and Manual Instruction, Quick Reference Card

Revision
Rev B

Revision Date
November 2026

Description of Changes
- Updated dimensions in figure on page 3
- Merged steps 3 and 4 on page 4
- Updated pen guidance to Sharpie only on pages 4-5
- Added minimum tissue area on pages 4-5
- Refined language and terminology throughout for consistency

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Atera
Sample Area

The Atera Instrument accommodates a large Sample Area for tissue placement. Samples must be placed within the Sample Area. Any tissue outside the Sample Area will not be analyzed and may be damaged during an instrument run.

The Sample Area and dimensions are shown in the figure on the right. For slides with labels, the maximum label area height is 21 mm (15.5 mm viewable).

To ensure tissue is placed within the Sample Area, 10x Genomics recommends using the Tissue Alignment Tool (PN-1001176) that is shipped with the Atera Instrument.

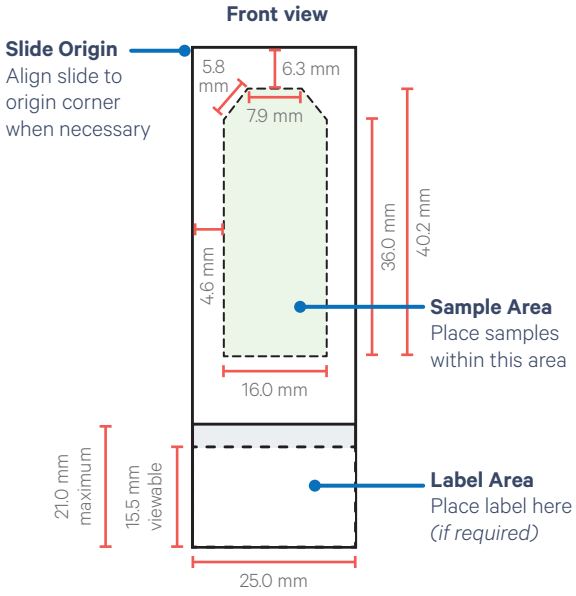
The following pages provides instructions on how to mark the Sample Area using the

- Tissue Alignment Tool (recommended), or
- Manual template

Ensure familiarity with using either method prior to tissue placement.

Atera Sample Area

For illustrative purposes only.
DO NOT use for sample placement.



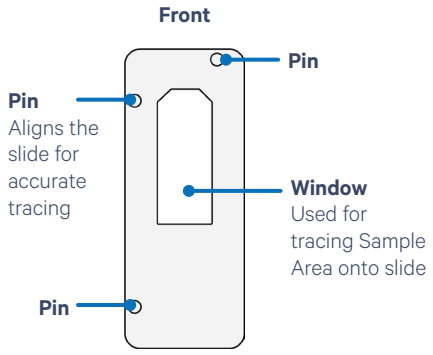
Dimensions are simplified and rounded to the nearest tenth.

Atera
Alignment Tool Use

The Atera Tissue Alignment Tool (PN-1001176) is used to draw the Sample Area on the back of the slide to assist with tissue placement.

- Samples of interest must lie within the Sample Area to be analyzed.
- At least 16 mm² of tissue must be placed within the Sample Area. Smaller tissue areas may result in assay failure.
- See the slide manufacturer's recommendations for slide-specific tips and guidelines for use.
- Use a dark-colored ultrafine-tip Sharpie pen.
- Do not reset sections.
- Maintain a minimum 1 mm gap between tissue sections to maximize likelihood each can be selected as its own region during instrument run.

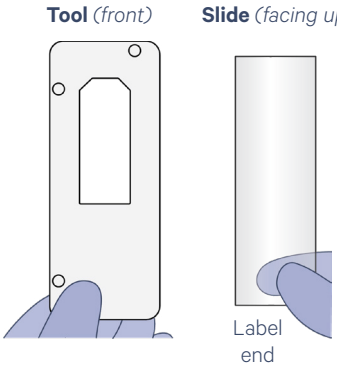
Atera Tissue Alignment Tool



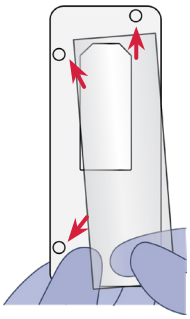
Samples that are placed outside the area cannot be analyzed..

Using the Alignment Tool

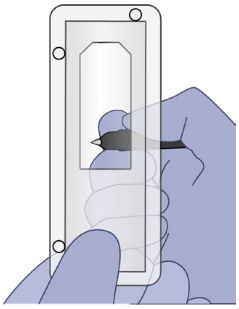
1 In one hand, hold the alignment tool with the front facing the user. In the other hand, hold the slide by the label end with front facing up.



2 Position the slide on top of the tool and align the slide with the three pins. Place thumb firmly on slide so it remains in place.



3 Using a dark-colored ultrafine-tip Sharpie pen, trace through the window from the **BACK** of the tool onto the **BACK** of the slide.



Do not move the slide while tracing.

4 Proceed to section placement. Place sections only within the marked area.



Let ink dry completely before proceeding.

Introducing liquid prematurely may cause ink to be removed and/or require cleaning the waterbath.

Atera
Manual Template Use

Samples must be placed in the Sample Area to ensure compatibility with the Atera Instrument. Samples placed outside the area cannot be analyzed. Use the template below to aid in correct sample placement.

Key Considerations

- Samples of interest must lie within the green Sample Area shown in template to be analyzed.
- At least 16 mm^2 of tissue must be placed within the Sample Area. Smaller tissue areas may result in assay failure.
- See the slide manufacturer's recommendations for slide-specific tips and guidelines for use.
- Use a dark-colored ultrafine-tip Sharpie pen.
- Do not reset sections.
- Maintain a minimum 1 mm gap between tissue sections to maximize likelihood each can be selected as its own region during instrument run.

Using the Template

a. Print this document. Select "100%" to print to scale. Measure slide diagrams to verify.

Failure to print correctly may result in incorrect sample placement.

b. Hold the slide **face down** with the label end at the bottom.

c. Align the **top right corner** of the slide to the top right corner of the template (outer edge of the black line).

Depending on the slide, alignment to other edges of the black line may not be exact.

d. Using a dark-colored ultrafine-tip Sharpie pen, trace the green box on the back of the slide

e. Let ink dry on the slide completely before proceeding.

Introducing liquid to slide prematurely may cause ink to be removed and/or require cleaning the waterbath.

