STOmics

STUM-UG004
C

Stereo-seq OMNI Transcriptomics FFPE Set V1.1 User Guidance

01 Introduction

Stereo-seq OMNI Transcriptomics FFPE Set V1.1 is intended for generating a spatially resolved coding and non-coding RNA library from formalin-fixed and paraffin-embedded (FFPE) tissue sections. Built upon DNA Nanoball (DNB) technology, STOmics Stereo-seq OMNI Transcriptomics Set for FFPE enables a “tissue-to-data” solution through in situ capture of the whole transcriptome at nanoscale resolution and large field-of-view. Each cDNA synthesized from RNA captured on a particular spot is linked to its spatially-barcoded probe, allowing subsequent gene expression mapping of a tissue section following sequencing based on DNBSEQ platform, and achieve data analysis and visualization using the STOmics developed software.

02 Workflow

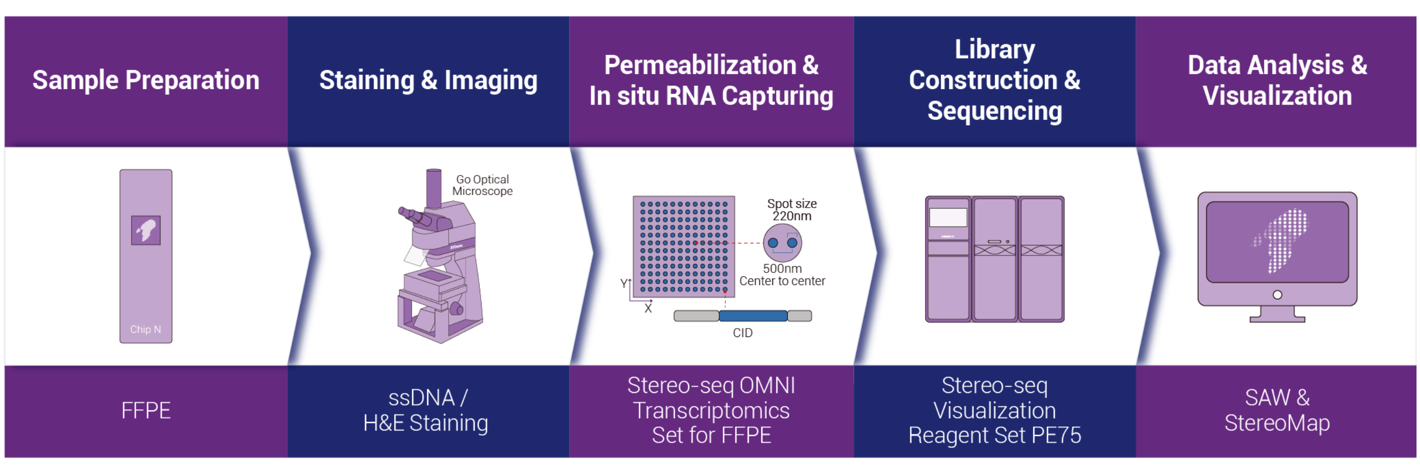

Figure 1 Stereo-seq OMNI Transcriptomics FFPE Set V1.1 Workflow

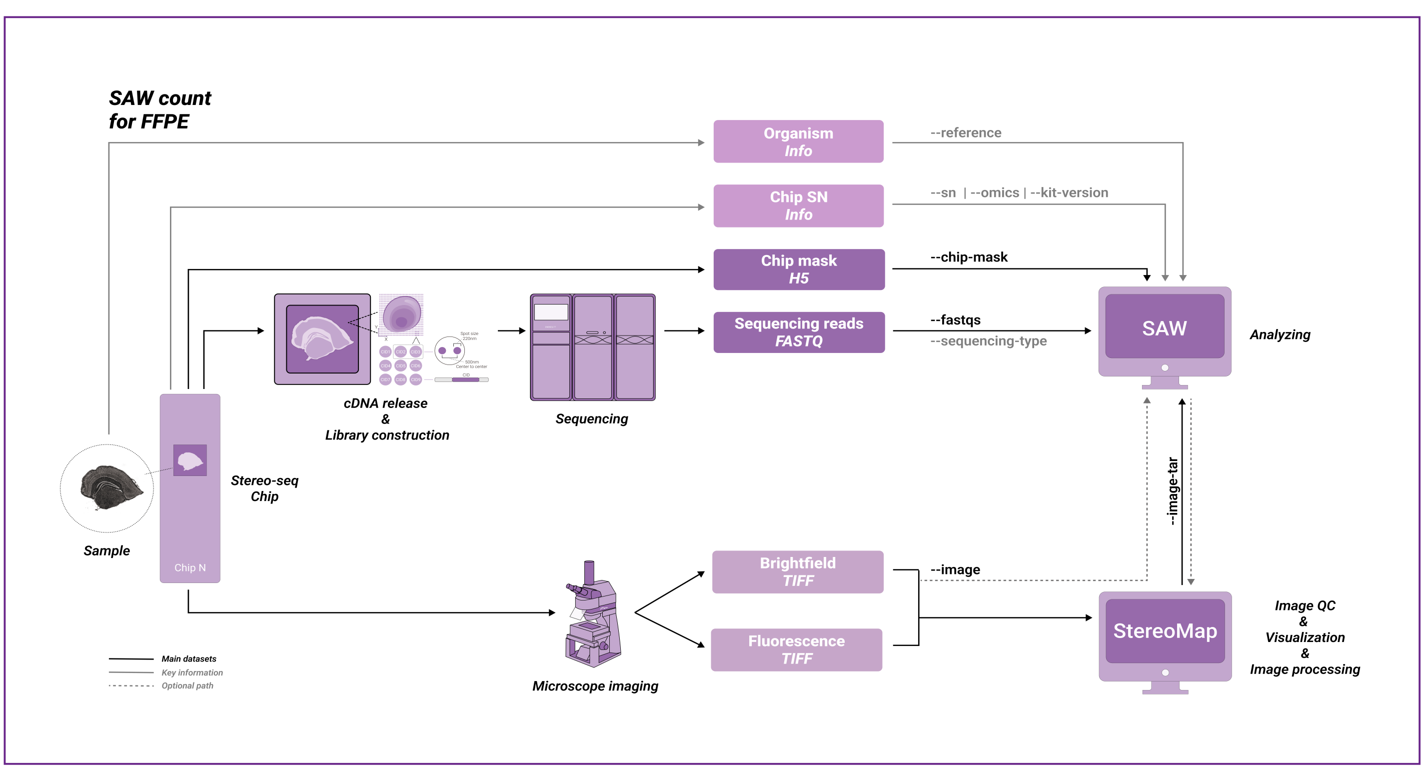

Figure 2 Overview of Stereo-seq OMNI Transcriptomics FFPE Set V1.1 Data Analysis Workflow

03 Resources Index

Step	Document Title and Description	Link
Experiment Preparation	**UG004 Stereo-seq OMNI Transcriptomics FFPE Set V1.1 User Guidance** Document No. : STUM-UG004 This guidance aims to give the user a general view of the Stereo-seq OMNI Transcriptomics FFPE Set V1.1, with the overview of whole experiment workflow and index of resources to support the users' in-house experiments.	View Document
	Stereo-seq Imaging Requirements and Guidelines Document No. : STUM-PE002 This manual aims to provide users guidance for assessing their imaging system including the hardware parameters and imaging quality for STOmics application, introducing the imaging system requirements, microscope assessment guidelines as well as preliminary image assessment and analysis.	View Document
	Stereo-seq Operation Guide For Receiving, Handling And Storing Document No. : STUM-PE005 This manual provides receiving, handling and storing guidance of the Stereo-seq Chip Slide.	View Document
	Experiment Preparation Checklist for Stereo-seq OMNI FFPE Transcriptomics Set V1.1 Document No. : STUM-PE007 This checklist enumerates all the necessary equipment and materials required at each individual stage of the Stereo-seq OMNI Transcriptomics V1.1 workflow for FFPE samples.	View Document
	Stereo-seq Sample Preparation, Sectioning and Mounting Guide for FFPE Samples on Stereo-seq Chip Slides Document No. : STUM-SP003 This manual aims to guide the users in FFPE tissue samples preparation, sectioning and mounting for Stereo-seq OMNI Transcriptomics FFPE Set V1.1 workflow.	View Document
Transcriptomics Workflow	**Stereo-seq OMNI Transcriptomics FFPE Set V1.1 for Chip-on-a-slide User Manual** Document No. : STUM-TT004 This manual provides a standard operation guidance for Stereo-seq OMNI Transcriptomics FFPE Set V1.1 workflow on Stereo-seq Chip N Slide (1cm * 1cm).	View Document
	Stereo-seq OMNI Transcriptomics FFPE Set V1.1 for Chip-on-a-slide (0.5cm * 0.5cm) User Manual Document No. : STUM-TT007 This manual provides a standard operation guidance for Stereo-seq OMNI Transcriptomics FFPE Set workflow on Stereo-seq Chip N Slide (0.5cm * 0.5cm).	View Document
Library Preparation and Sequencing	**Stereo-seq OMNI V1.1 FFPE Library Preparation User Manual** Document No. : STUM-LP002 This manual aims to provide guidance for the whole-transcriptome library construction from cDNA products obtained via Stereo-seq OMNI Transcriptomics FFPE Set V1.1 workflow.	View Document
	Related sequencing manuals: CG DNBSEQ-T7RS Stereo-seq Visualization Reagent Set Instructions for Use CG DNBSEQ-G400RS Stereo-seq Visualization Reagent Set Instructions for Use	https://www.completegenomics.com/documentation/
	MGI DNBSEQ-T7RS Stereo-seq Visualization Reagent Set Instructions for Use MGI DNBSEQ-G400RS Stereo-seq Visualization Reagent Set Instructions for Use	https://en.mgi-tech.com/download/files/
Data Analysis	**StereoMap User Manual** StereoMap is a desktop application designed to provide the essential analysis functionality you need to explore your Stereo-seq data interactively. This manual provides guidance in using StereoMap.	https://en.stomics.tech/service/stereoMap-operation-manual.html
	SAW User Manual Stereo-seq Analysis Workflow (SAW) software suite is a set of pipelines bundled to map sequenced reads to their spatial location on the tissue section, quantify spatial feature expression, and visually present spatial expression distribution. SAW processes the data from the Stereo-seq sequencing platform, combined with microscope images, to generate spatial feature expression matrices. Analysts can use the output files as a starting point to perform downstream analysis. This manual provides guidance in using SAW.	https://en.stomics.tech/service/new-saw-operation-manual.html

04 Revision History

Version: A
Date: Apr. 2025
Description: Initial release

Version: A_1
Date: Jun. 2025
Description: Added hyperlinks to all listed manuals to improve accessibility and user experience.

Version: B
Date: Aug. 2025
Description: Updated the diagrams of the solution and data analysis workflows.

Version: C
Date: Nov. 2025
Description: Compatible for Stereo-seq OMNI Transcriptomics Set V1.1.

1. The products shall be for research use only, not for use in diagnostic procedures.
2. The contents of this manual may be protected in whole or in part by applicable intellectual property laws. STOmics Tech Co., Ltd. and/or corresponding right subjects own their intellectual property rights according to law, including but not limited to trademark rights, copyrights, etc.
3. STOmics Tech Co., Ltd. does not grant or imply the right or license to use any copyrighted content or trademark (registered or unregistered) of ours or any third party's. Without our written consent, no one shall use, modify, copy, publicly disseminate, change, distribute, or publish the program or contents of this manual without authorization, and shall not use the design or the design skills to use or take possession of the trademarks, the logo, or other proprietary information (including images, text, web design or form) of ours or those of our affiliates.
4. Nothing contained herein is intended to or shall be construed as any warranty, expression or implication of the performance of any products listed or described herein. Any and all warranties applicable to any products listed herein are set forth in the applicable terms and conditions of sale accompanying the purchase of such product. STOmics Tech Co., Ltd. makes no warranty and hereby disclaims any and all warranties as to the use of any third-party products or protocols described herein.

05 Contact Us

For more information, please refer to STOmics Website:
www.en.stomics.tech

STOmics resource list:
https://en.stomics.tech/resources/documents/list.html