

Stereo-seq Visualization Reagent Set

*All-in-one Integrated Kit
Empowering Spatio-temporal Omics Research*

Platforms

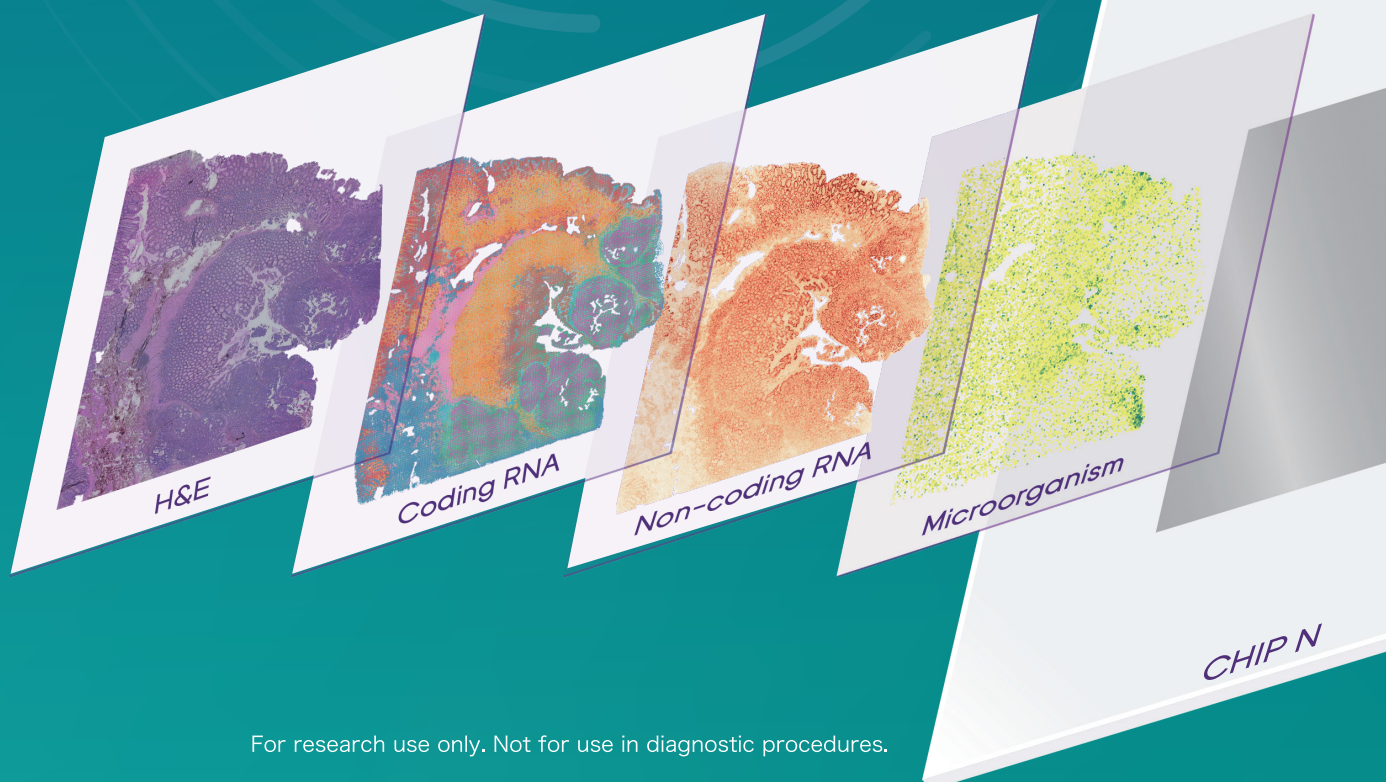
- ✓ DNBSEQ-T7RS
- ✓ DNBSEQ-G400RS

Sample Type

- ✓ FFPE

Read Length

- ✓ PE75



For research use only. Not for use in diagnostic procedures.

Introduction

Stereo-seq Visualization Reagent Set



MGI's Stereo-seq Visualization Reagent Set utilizes cPAS and DNBSEQ™ technologies for STOmics libraries. Combined with the Stereo-seq library preparation process and based on the Stereo-seq Visualization Reagent Set, both DNBSEQ-T7RS and DNBSEQ-G400RS sequencing platforms can provide excellent sequencing performance for Stereo-seq OMNI FFPE Chip N library, empowering Spatio-temporal Omics research.

Dual Platform Adapted

DNBSEQ-T7RS

Stereo-seq Visualization Reagent Set
(T7 STO FCL PE75)

4 FC

per Run

3500~5800 M

Effective Reads/Flow Cell*

>85%

Q30**

12 h

Run Time***

DNBSEQ-G400RS

Stereo-seq Visualization Reagent Set
(G400 STO FCL PE75)

2 FC

per Run

1280~1800 M

Effective Reads/Flow Cell*

>85%

Q30**

22 h

Run Time****

* The effective read value is obtained according to the operation of a specific standard library, and the actual application library will fluctuate according to the sample type and library construction method.

** The percentage of bases above Q30 and the running time are averaged over the entire run for a particular standard library. The practical application performance is affected by sample type, library quality, insert length, and other factors.

*** Run time includes Flow Cell loading, sequencing, and outputting Cal. File. Cal. is a binary file format generated by MGI sequencer baseball software.

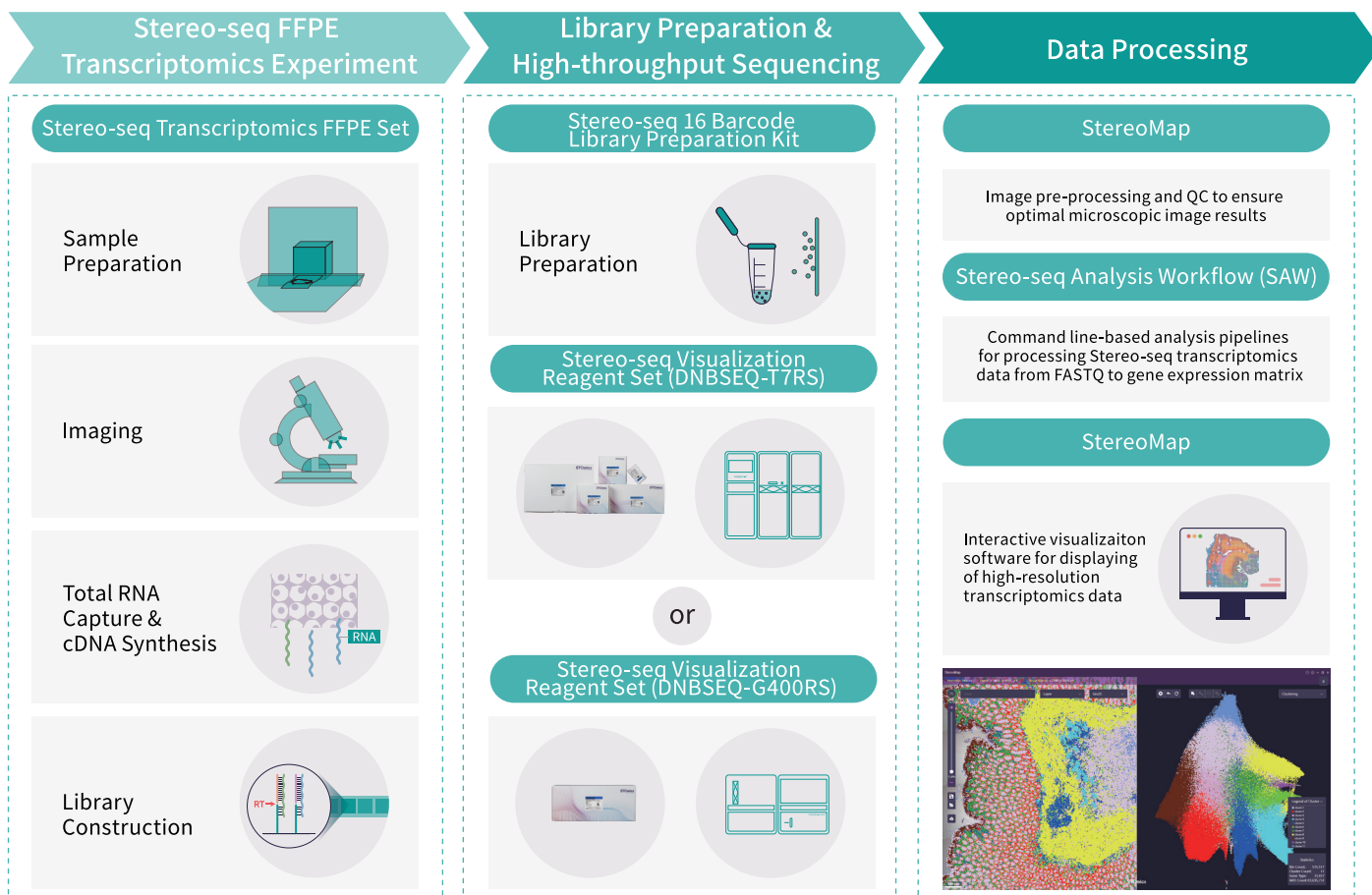
**** Run time is calculated based on dual-slide mode including sample loading, sequencing, base calling, and data processing (From post-loading prime to output FASTQ file).

All-in-one Integrated Kit

MGI's Stereo-seq Visualization Reagent Set is highly integrated, including Stereo-seq library sequencing primers, one-step DNB preparation reagents, and other pre-packed components. It also utilizes StandardMPS 2.0 new chemistry technology to improve data quality and facilitates the end-to-end solution based on Stereo-seq OMNI FFPE Chip N library.



Stereo-seq FFPE Workflow



Tested Data

01 DNBSEQ-T7RS Platform

- Reagent Set: DNBSEQ-T7RS Stereo-seq Visualization Reagent Set
- Library: Stereo-seq Standard N Library – Mouse

Indicators	Description
Software Version	BCS_1.4.2.177
Recipe	PE25+59+10
Cycle Number	94
Chip Productivity (%)	53.66
Image Area	1764
Total Reads (M)	4636.59
Q30 (%)	94.43
Split Rate (%)	97.04
Runon 1 (%)	0.01
Runon 2 (%)	0.03
Lag 1 (%)	0.07
Lag 2 (%)	0.12
ESR (%)	56.24
Recover Value (AVG)	2.88

02 DNBSEQ-G400RS Platform

- Reagent Set: DNBSEQ-G400RS Stereo-seq Visualization Reagent Set
- Library: Stereo-seq Standard N Library – Mouse

Indicators	Description			
Software Version	1.5.0.323			
Recipe	PE25+59+10			
Lane	Lane 1	Lane 2	Lane 3	Lane 4
Cycle Number	94	94	94	94
Chip Productivity (%)	64.41	64.02	62.85	63.13
Image Area	432	432	432	432
Total Reads (M)	379.76	377.45	370.53	372.2
Q30 (%)	91.47	91.35	91.37	91.28
Split Rate (%)	96.94	96.93	96.92	96.92
Runon 1 (%)	0.05	0.05	0.04	0.05
Runon 2 (%)	0.04	0.04	0.04	0.04
Lag 1 (%)	0.13	0.13	0.12	0.13
Lag 2 (%)	0.19	0.19	0.19	0.19
ESR (%)	64.41	64.02	62.85	63.13
Recover Value (AVG)	2.85	2.86	2.90	2.89

Ordering Information

Product Name	Cat. No.
DNBSEQ-T7RS Stereo-seq Visualization Reagent Set (T7 STO FCL PE75)	940-001895-00
DNBSEQ-G400RS Stereo-seq Visualization Reagent Set (G400 STO FCL PE75)	940-001886-00
Stereo-seq Transcriptomics Set for FFPE	211SN114
Stereo-seq 16 Barcode Library Preparation Kit	111KL160

