

# MGI High Throughput Automated Package RNA Sequencing Sample Preparation

## ■ Introduction

MGEasy RNA Library Prep Set provides an efficient package for generating libraries from a wide range (10ng~1μg) of total RNA that is suitable for MGI high-throughput sequencing platforms.

Designed for You

## MGISP-960

High-throughput Automated Sample Preparation System



**●● User-defined**

24-position board supporting multiple combinations of functional modules, and tailored workflows to satisfy each lab's needs and budget

**●● Easy to operate**

Fully automated workflow and user-friendly interface with compatible reagents and software

**●● Widely applicable**

Applications expandable to genomics, cell biology, drug discovery, protein science, analytical chemistry, etc.

**●● Efficient & accurate**

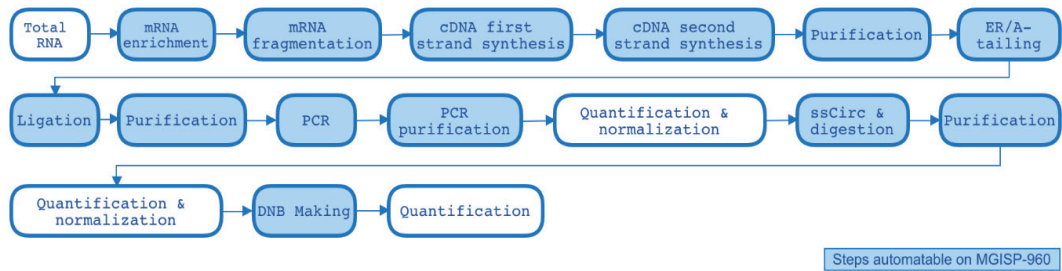
96-channel pipettor with a robotic gripper to ensure high precision and reproducibility

MGISP-960 is a high-throughput automated sample preparation system. Most steps of NGS sample preparation can be automated on MGISP-960. The protocols can be edited for different needs. MGISP-960 can save a great deal of effort and error by automating repetitive actions. MGISP-960 has been operating stably for MGI Sequencer's library preparation.

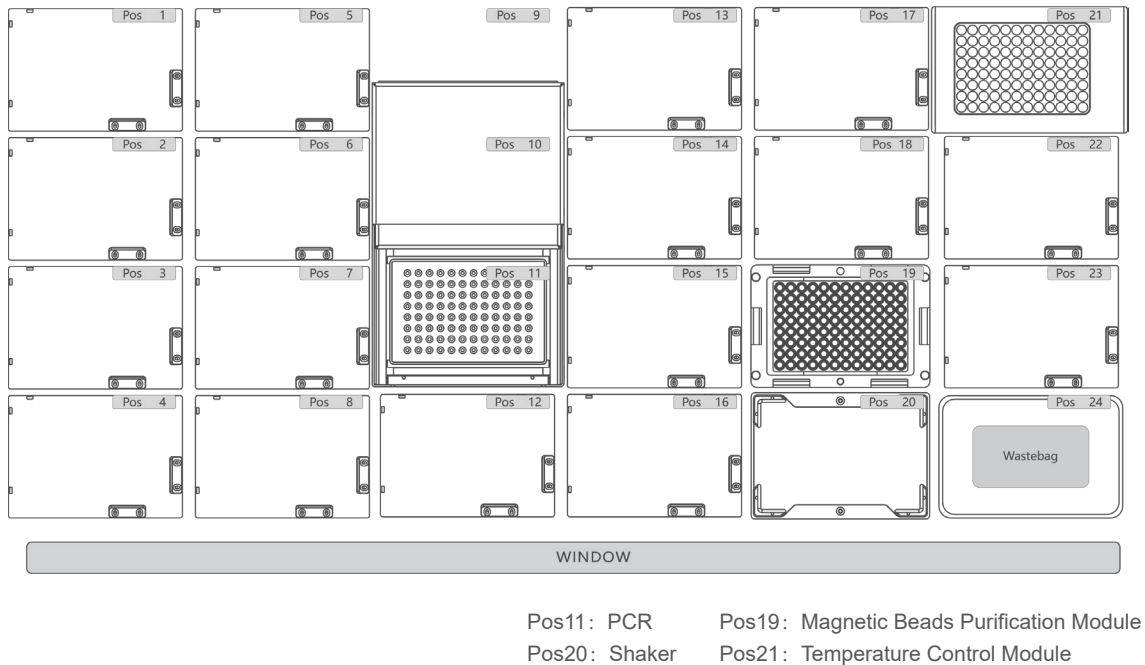
The Throughput for [MGEasy RNA Library Prep Set] based on MGISP-960 can be set 8-96rxn/run as needed. MGISP-960 can do mRNA enrichment, cDNA first and second strand synthesis, PCR, ssCirc & Digestion and DNB making.

# RNA Sequencing Sample Preparation Automated Workflow

## The Workflow on MGISP-960



## MGISP-960 Board Layout



## Four Steps in RNA Sequencing Sample Preparation

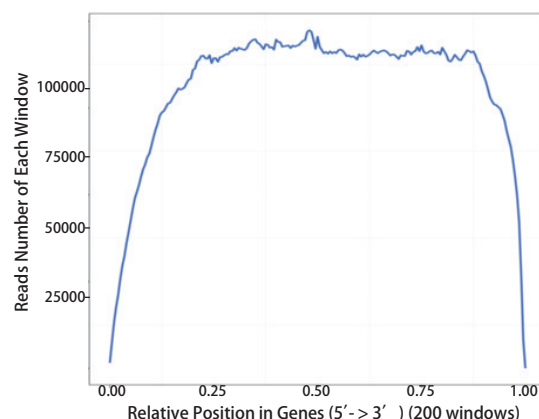
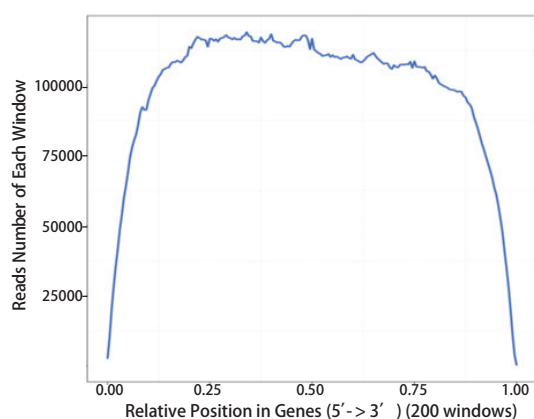
|                        |   |          |
|------------------------|---|----------|
| MGISP-960 Running Time | Total RNA → mRNA enrichment :                                 | ≤ 2 h    |
|                        | mRNA enrichment → PCR :                                       | ≤ 5 h    |
|                        | PCR → ssDNA Circle :  | ≤ 2 h    |
|                        | ssDNA Circle → DNB :  | ≤ 40 min |
| Throughput per Run     | 8 – 96 samples  |          |
| Matching kit           | [MGIEasy RNA Library Prep Set ], [MGIEasy rRNA Depletion Kit] |          |

## ■ MGISP-960 Data Performance

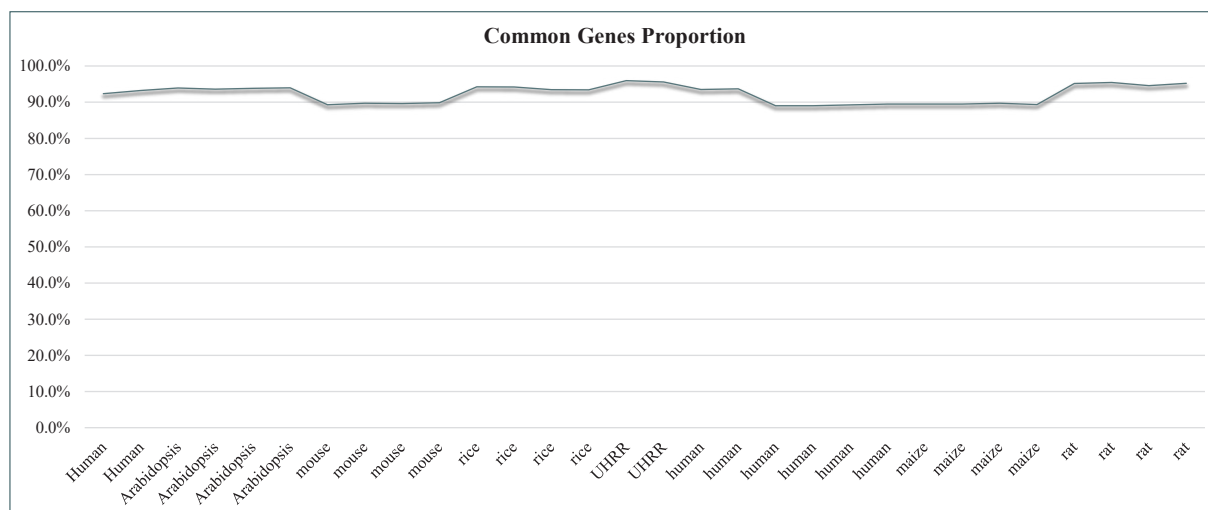
### More Stable than Manual

| Sample Type   | Times of Sample Prep | Correlation Coefficient |
|---------------|----------------------|-------------------------|
| UHRR          | 3                    | 0.998, 0.998, 0.999     |
| Human samples | 3                    | 0.996, 0.997, 0.998     |
| Arabidopsis   | 3                    | 0.99, 0.993, 0.997      |

### Equally good 5' to 3' Ends Coverage compared to Manual



### Highly Consistent Gene Annotation Results compared to Manual



## MGISP-960 Ordering Information

| Model       | Configurations   | Item No.      |
|-------------|--|---------------|
| MGISP-960RS | PCR Module x1, Magnetic Beads Purification Module x1, Shaker x1, Temperature Control Module x1 | 900-000107-00 |

## Consumables Ordering Information

| Product Name  | Brand | Specification | Unit | Item No.   |
|---|-------|---------------|------|------------|
| Microseal 'P' Replacement Pads  | MGI   | 10 pieces/bag | Bag  | 1000004981 |
| 250ul Automated Tips, Filter, sterile, Low adsorption                   | MGI   | 10 boxes/Case | Case | 1000005520 |
| 1.3ml U-bottom Deepwell Plate   | MGI   | 2 pieces/Case | Case | 1000005530 |
| Hard-Shell Thin-Wall 96-Well Skirted PCR Plates, white shell/clear well | MGI   | 10 pieces/Bag | Bag  | 1000004991 |

## Kit Ordering Information

| Product Name                                   | Specification    | Item No.                         |
|--|------------------|----------------------------------|
| MGIEasy RNA Library Prep Set                   | 16RXN/96RXN      | 1000006383/1000006384            |
| MGIEasy rRNA Depletion Kit                     | 32RXN            | 1000005953                       |
| BGISEQ-500RS High-throughput Sequencing Set *  | SE50/PE50/PE100  | 1000002072/1000005475/1000005478 |
| MGISEQ-2000RS High-throughput Sequencing Set * | SE50/PE100/PE150 | 1000003703/1000002873/1000003981 |
| MGISEQ-200RS High-throughput Sequencing Set *  | SE50/PE50/PE100  | 1000004635/1000005228/1000005229 |

For Research Use Only. Not for use in diagnostic procedures.

## Contact Us

MGI Tech Co., Ltd  
 Add.: Building11, Beishan Industrial Zone,  
 Yantian District, Shenzhen, CHINA 518083  
 Email: [MGI-service@mgi-tech.com](mailto:MGI-service@mgi-tech.com)  
 Website: [en.mig-tech.com](http://en.mig-tech.com)  
 Tel: 4000-966-988  
 Version: October 2021 | MGPC100810201-01



<https://www.linkedin.com/company/mgi-bgi>



@MGI\_BGI



Copyright © 2018 MGI, Inc. All Rights Reserved.

The copyright of this brochure is solely owned by MGI Tech Co., Ltd.. The information included in this brochure or part of, including but not limited to interior design, cover design and icons, is strictly forbidden to be reproduced or transmitted in any form, by any means (e.g. electronic, photocopying, recording, translating, or otherwise) without the prior written permission by MGI Tech Co., Ltd.. All the trademarks or icons in the brochure are the intellectual property of MGI Tech Co., Ltd. and their respective producers.

\*Unless otherwise informed, all sequencers and sequencing reagents are not available in Germany, USA, Spain, UK, Hong Kong, Sweden, Belgium and Italy.