

MGI Low Throughput Automated Solution

WGS Sample Preparation

Introduction

MGIEasy DNA Library Prep Kit is a WGS library construction kit tailored to MGI high-throughput sequencing platform. Using this kit, the whole-genome DNA can be prepared into a single-stranded circular DNA library, which dedicated to the MGI high-throughput sequencing platform.

Comprehensive functions

Integrated design comprising functional modules including PCR preset protocols, temperature control, etc. covering the whole testing process.

Cost effectivity

Short time to set up the library, batched sample processing, suitable for small to medium laboratories.

Professional and minimal contamination

Including a laminar flow hood which eliminates external contaminants to maximize accurate results.

Flexible platform

Allows customized workflow development; high expandability.



Automated Sample Preparation System

— Designed for Next Generation Sequencing Applications

MGISP-100 is an automated system focused on the field of sample preparation for the next generation sequencing. The automatic process can be edited for different needs. MGISP-100 can save a great deal of effort, improve the stability of the preparation of NGS library, reduce the cost. Currently, it has been operated stably for MGI sequencer's library preparation.

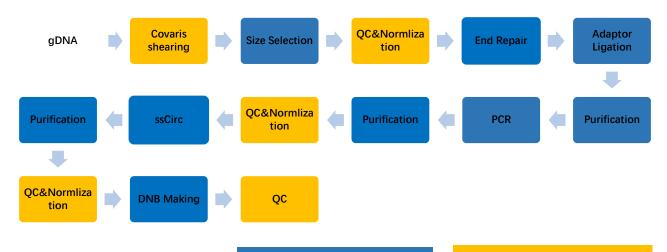
The throughput for [MGIEasy DNA Library Prep Kit] based on MGISP-100 is 16 rxn /run. MGISP-100 can do Fragmentation, Size Selection, End Repair, Adaptor Ligation, PCR Amplification, Purification, ssCirc, and DNB Preparation and more.



Can not be done on MGISP-100

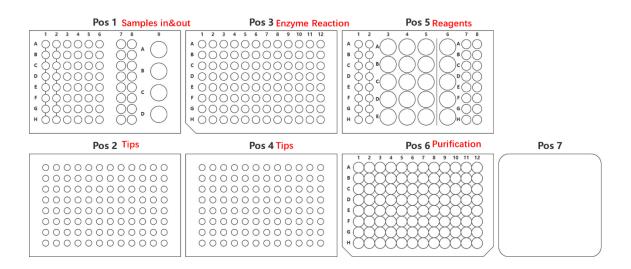
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Workflow on MGISP-100



Can be done on MGISP-100

MGISP-100 Board Layout



Four steps on MGISP-100 for WGS sample preparation

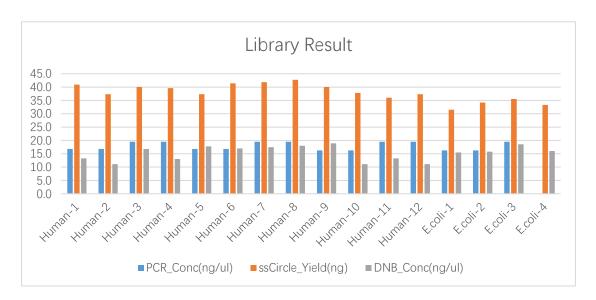
MGISP-100 Running	gDNA →Fragment DNA:	≤40 minutes
Time	Fragment DNA→PCR:	≤4 h
	PCR → ssCirc:	≤2 h
	ssCirc → DNB:	≤40minutes
Throughut per Run	16 samples	
Matching Kit	[MGIEasy DNA Library Prep Kit]	



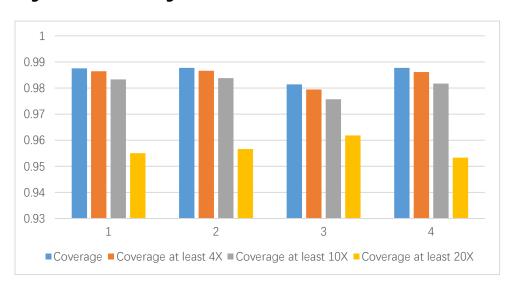
MGISP-100 Data Performance

Stable and Effective Results from Various Sample Types

Libraries were prepared from human and E.coli using MGISP-100. The yields of PCR product, ssCirc, DNB are qualified and stable. It shows that MGISP-100 has a stable effect on gDNA samples of both human and microbe.



High Genome Coverage



1/2/3/4 are the same human sample made on MGISP-100; the data is from MGISEQ platform



MGISP-100 Ordering Information

Model	Item NO.
MGISP-100	900-000027-00
MGISP-100RS	900-000070-00
MGISP-100CX	900-000052-00
MGISP-100RX	900-000051-00

Consumables Ordering Information

Product Name	Brand	Specification	Unit	Item NO.
0.5ml SC Micro Tube PCR-PT	MGI	100 ea./bag	bag	1000001558
Break-Away 96-Wells, clear tubes, purple frame	MGI	10 pieces/box	box	1000004341
Strips of 8 flat opitical caps	MGI	12 ea./bag	bag	1000004191
Microseal 'P' Replacement Pads	MGI	10 pieces/bag	bag	1000002039
250ul Automated Tips, Filter, sterile, Low adsorption	MGI	10 boxes/case	case	1000008530
1.3ml U-bottom Deepwell Plate	MGI	2 pieces/bag	bag	1000004644
Hard-Shell Thin-Wall 96-Well Skirted PCR Plates,	MGI	10piececs/bag	bag	1000000675
white shell/clear well				
2ml SC Micro Tube PCR-PT	MGI	100 ea./bag	bag	1000001553

Kit Ordering Information

Product Name	Specification	Item NO.		
MGIEasy DNA Library Prep Kit	16RXN	1000002505		
BGISEQ-500RS High-Throughput Sequencing	SE50/PE50/PE100	1000002072/1000005475/1000005478		
Set	3E30/PE30/PE100			
MGISEQ-2000RS High-Throughput Sequencing	SE50/PE100/PE150	1000003703/1000002873/1000003981		
Set	SE30/PE100/PE130			
MGISEQ-200RS High-Throughput Sequencing	SE50/PE50/PE100	1000004635/1000005228/1000005229		
Set	3E3U/PE3U/PE1UU			

^{*}For Research Use Only.

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