

Genetic Sequencer

DNBSEQ-G400*







Strengthen your daily sequencing capability



Flexible, stable, and well-qualified, offering more choices

Product Introduction

DNBSEQ-G400* is a versatile benchtop sequencer, providing users with comprehensive, flexible, and efficient sequencing options.

DNBSEQ-G400* sequencer supports a wide range of applications including scientific research, clinical research, disease prevention, environment studies and agriculture, etc., increasing the popularity of high-throughput sequencing systems in medical and scientific research fields.





• Dual flow cell system
One or two flow cells:
1500 M ~ 3600 M reads/run



 Proven DNBSEQ™ technology

No error accumulation Low amplification bias Low index hopping High speed

Short sequencing & time

FCL SE50 from DNB to FASTQ takes only 14 hours



Wide range of applications

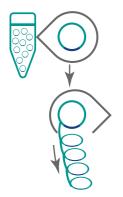
Suitable for research and clinical applications

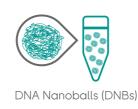
Technical Principle

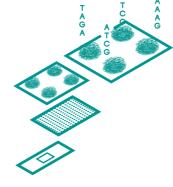
MGI'S PROPRIETARY

DNBSEQTM

TECHNOLOGY







Patterned Array

1 INCREASED ACCURACY

↓ DECREASED DUPLICATES

REDUCED INDEX HOPPING

DNA Nanoball sequencing technology - No accumulation of amplification errors

OHardware Platform

DNBSEQ-G400* sequencer utilizes an innovative flow cell system which can support various sequencing modes and an optimized optical and biochemical system that enables the whole sequencing process to be completed within a short period of time, offering the user a simplified and streamlined sequencing experience.



Adapted Applications

DNBSEQ-G400* supports four read lengths, from fertility testing and rapid pathogen detection (SE50, SE100), to tumor detection, transcriptome, WGBS, WES, WGS (PE100), comprehensively cover the application needs of scientific research and clinical fields.

Application Type	Recommended Read Length	Recommended data per sample	Recommended sample numbers ^a for a single run on DNBSEQ-G400°	
			1*FCL 1800M reads	2*FCL 3600M reads
NIPT	SE50/SE100	10 M reads/sample	144 Samples	288 Samples
Metagenomics for Pathogen Detection	SE50/SE100	20 M reads/sample	72 Samples	144 Samples
Single-cell RNA-Seq	PE100	10K cells, 50K reads/cell, 500 M/sample	2 Samples	4 Samples
Oncology Panel	PE100/PE150	10 Gb/sample (5000X, 1 Mb panel)	44 Samples	88 Samples
Transcriptomics		6 Gb/sample	72 Samples	144 Samples
WES	PE150	100× average sequencing depth, 15 Gb/sample	28 Samples	56 Samples
WGS		30× average sequencing depth, 100 Gb/sample	4 Samples	8 Sameples

^{*} Sample numbers are calculated considering pooling variation and applications. For reference only.

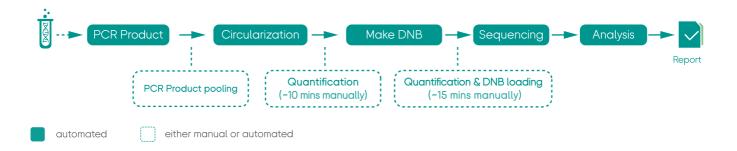


Total Package

Versatile Library Prep, Sequencing & Analysis Solution

Genetic Sequencer DNBSEQ-G400* fully automated workflow (& all scenarios applicable)





Mighlights

Efficient

- High efficiency with fully automated comprehensive workflow from sample to report
- Less than 30 mins of manual operations from sample to sequencing

Intelligent

- ZLIMS controls fully automated workflow from sample to report
- Compatible with multiple MGI and third-party software
- MegaBOLT is compatible with MGI and third-party data

Flexible

- Multiple sequencing and analysis options to expand application scenarios
- The above equipments can be selected according to needs

Appendix

Mardware Parameters

	Model ¹	Intended Market	
Model ¹	DNBSEQ-G400*	IVD	
Model	DNBSEQ-G400RS*	RUO	
Dimensions	1086 mm(L)×756 mm(W)×710 mm(H)		
Net Weight	200 kg		
Power	Туре	100-240 V, 50/60 Hz	
Powel	Rated Power	1200 VA	
	Temperature	19°C-25°C	
Operating	Relative Humidty	20% RH-80% RH,non-condensing	
Environment	Atmospheric Pressure	70 kPa-106 kPa	
Requirements ²	Waterproof Rating	IPX0	
	CPU	Intel Xeon E5 10Core 2 2.2GHz	
	Internal Storage	256 GB RAM	
Control Computer	HDD	16 Tb	
Configurations ³	SSD	480 Gb	
	Operating System	Windows 10 Enterprise	

- 1. Only for model classification
- 2. For indoor use only; The Flow Cells can be stored and transported at room temperature. No liquid medium is needed
- 3. Supporting the computer's configurations and system updates

Ordering Information

RUO*

4	Cat. No.	Product Name (Model)
	900-000170-00	Genetic Sequencer DNBSEQ-G400RS (DNBSEQ-G400RS)
	940-001343-00	DNBSEQ-G400RS High-throughput Sequencing Reagent Set (G400 FCL SE50)
	940-001368-00	DNBSEQ-G400RS High-throughput Sequencing Reagent Set (G400 FCL SE100)
	940-001344-00	DNBSEQ-G400RS High-throughput Sequencing Reagent Set (G400 FCL PE100)
	940-001356-00	DNBSEQ-G400RS High-throughput Sequencing Reagent Set (G400 FCL PEI50)

 $^{^*}S tandard MPS \ sequencing \ reagents \ are \ available \ in \ modified \ form \ in \ Germany, \ UK, \ Sweden, \ and \ Switzerland.$

Technical Support Available Globally



Local technical support and Customer Experience Centers (CECs) have been established in multiple countries and regions worldwide to ensure timely and effective technical support and training.



Local warehouses and spare part centers have been established in multiple countries and regions worldwide to ensure the continuous availability of machine parts for maintenance.



Online technical support is available globally with a fully functional call center (Toll-Free Hotline 4000-688-114) accessible during workdays from 9:00 AM-12:00 PM and 13:00 PM-18:00 PM (Beijing time, GMT+8).



Providing installation services and system verification services as needed to ensure smooth implementation and operation. The value-added services are available for personalized services such as secondary relocation.





Providing instrument preventive maintenance services within the warranty period, along with a host of available extended warranty support plans to ensure optimal performance and reliability.

Industriestrasse 12 CH-6210 Sursee

mail@witec.ch T 041 250 53 57





MGI Tech Co., Ltd.

Building 11, Beishan Industrial Zone, Yantian District, Shenzhen.CHINA 518083





+86-4000-688-114

Version: August 2023 | MGPA0203002-02

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