

Simply Fast

# FASTASeq™

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*Speed redefined*



## Product Parameter

Parameter							
Flow cell type <sup>1</sup>	Lane	Throughput (Reads/FC)	Specification <sup>1</sup>	Read Length	Data Output <sup>2</sup>	Q30 <sup>2</sup>	TAT <sup>3</sup>
FCL	1	20 M	SE100-D	SE100	2 Gb	≥90%	~ 3.0 hrs
			100 cycles	PE50			~ 4.0 hrs
			300 cycles	PE150	6 Gb	≥90%	~ 6.8 hrs
FCM	1	40 M	SE100-D	SE100	4 Gb	≥90%	~ 3.5 hrs
			100 cycles	PE50			~ 4.5 hrs
			300 cycles	PE150	12 Gb	≥90%	~ 7.5 hrs

## Main Features

Real time FastQ generation	Allow to resume from breakpoint
Load-and-go reagent Cartridge	RT shipping and storage for reagents

1. FCX reagents will be available in Q1, 2026, FCH reagents will be available in Q2, 2026.

2. This parameter is obtained based on the average of multiple test results of GeneMind P3 standard library. The data output and the proportion of high quality data are affected by factors such as sample type, sample quality and effective flow cell utilization. The actual performance may vary.

3. The sequencing time to complete the sample read length plus the paired-end index (8+8), includes the time from sample loading to base calling, and generating basefile.

## Simply Fast

### Swift

2.0 Hrs SE50  
3.0 Hrs SE100  
6.8 Hrs PE150

Lightning Chemistry  
Plus reduce cycle time

50 %<sup>4</sup> ↓

### Saving

Reagent saving  
Sequencing on demand

Reduce reagent  
consumption

70 %<sup>4</sup> ↓

### Simple

User-friendly Interface

7 minutes NGS  
run preparation

### Social Responsible

Smart waste sorting and  
processing design

RT shipping and  
storage for  
load-and-go Reagent

4. The values are all compared with FASTASeq™ 300 as the reference.

Note: This document is based on company data of October, 2025, and is provided for reference only.

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## Application

Applications	Reads length	Data/sample	Number of Samples / FC <sup>5</sup>	
			FCL	FCM
			20 M	40 M
Small Oncology Panel (Tissue)	PE150	1 Gb	4	8
Small Oncology Panel (Plasma)	PE150	7 Gb	/	1
NIPT Basic	SE100	3.5 M reads	4	8
tNGS (based on probe capture)	SE50	1 M reads	20	40
HLA Typing	PE150	0.2 Gb	24	48

5. The above sample numbers for different applications are only for reference. Users need to adjust the sample numbers according to the actual experiment.

## Total solution

### GeneMind™ Lung & Colon Cancer (30 genes) Solution

**Introduction:** The panel is a targeted sequencing assay for biomarker analysis of over 30 genes with known relevance to lung cancer and colorectal cancer, covering the gene testing targets which is approved by the FDA and NMPA, recommended by NCCN and CSCO guidelines. This hybrid capture based test detects single nucleotide variants (SNVs), insertions/deletions (InDels), amplification, and fusions. The test results can provide reference for individualized therapy such as targeted medication, immunotherapy, genetic risk, prognosis indication, etc.

#### Applicable Population:

- ✓ Patients with lung cancer and colorectal cancer
- ✓ Patients with recurrent or metastatic cancer
- ✓ Patients receiving targeted therapy
- ✓ Individuals eligible for clinical trial



#### Solution Workflow:



Product		Lung & Colon Cancer 30 Panel
Method	Hybrid capture	
Gene number	30+	
Panel size	340 kb	
Variants type	SNVs, InDels, Amplifications, Fusions, and MSIs	
Input quantity	20 ng - 500 ng DNA	
Sample types	FFPE, Fresh tissue, Plasma, White blood cell, Hydrothorax and Ascite	
Mapping rate	98.99%	
On-target rate	>70%	
Coverage uniformity	97%	
Number of sample/FC	Tissue/White blood cell <sup>6</sup> (≥1 Gb PE150)	1 FCL: 4 1 FCM: 8
	Plasma (≥7 Gb PE150)	1 FCM: 1
Report generation	Local analysis and report system	

6 White blood cells are recommended as a control to minimize interference from germline mutations.

## System Specification

Dimensions (W × D × H)	626 mm × 580 mm × 575 mm
Net Weight	about 100 kg
Power	≤1000 VA
Power Requirements	100-240 V~, 50/60 Hz
Operating Environment	Temperature: 19°C-25°C Humidity: 20%-80% (non-condensing) Altitude: below 3000 meter
Computer Configuration	CPU: 13th Gen Inter(R) Core(TM) i7-13700T Memory: 64 GB Hard Drive: 4 TB Operating system: Microsoft Windows 10

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