

FASTASeq™ S

Simply Fast
Speed redefined



Product Parameter

Parameter							
Flow cell type ¹	Lane	Throughput (Reads/FC)	Specification ¹	Read Length	Data Output ²	Q30 ²	TAT ³
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 TAT (turnaround time) for a standard run (paired-end 8+8 indexing) encompasses the entire process from library loading to the generation of base-called sequence files.

Simply Fast

Swift

2.0 Hrs SE50
3.0 Hrs SE100
6.8 Hrs PE150

Lightning Chemistry
Plus reduce cycle time

50%⁴ ↓

Saving

Reagent saving
Sequencing on demand

Reduce reagent
consumption

70%⁴ ↓

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.

Application

Applications	Reads length	Data/sample	Number of Samples / FC ⁵	
			FCL	FCM
			20 M	40 M
Oncology Panel (30 genes)-Tissue	PE150	1 Gb	4	8
Oncology Panel (30 genes)-Plasma	PE150	7 Gb	/	1
tNGS (based on probe capture)	SE100	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

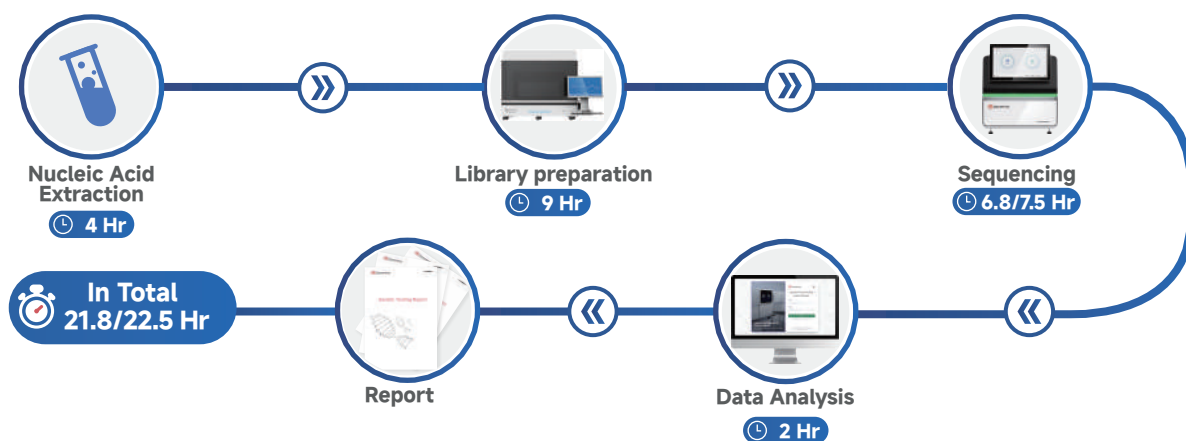
Introduction: The panel is a targeted sequencing assay for biomarker analysis of over 30 genes with known relevance to lung cancer and colorectal cancer, covering the gene testing targets which is approved by the FDA and NMPA, recommended by NCCN and CSCO guidelines. This hybrid capture based test detects 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:



GeneMind™ Lung & Colon Cancer (30 genes) Solution

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 ⁶ (≥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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