GeneMind

Simply Fast

FASTASeq™ S

Speed redefined

Product Parameter

Flow cell type[1]	Lane	Throughput (Reads/FC)	Specification	Read Length	Data Output[1]	Q30[1]	TAT[2]
FCL	1	20M	SE100-D	SE50	1 Gb	≥90%	~2.0 hrs
			SE100-D	SE100	2 Gb		~3.0 hrs
			100 cycles	PE50	2 Gb		~4.0 hrs
			300 cycles	PE150	6 Gb	≥90%	~6.8 hrs
			400 cycles	SE400	8 Gb	≥80%	~16 hrs
FCM	1	40M	SE100-D	SE50	2 Gb	≥90%	~2.5 hrs
			SE100-D	SE100	4 Gb		~3.5 hrs
			100 cycles	PE50	4 Gb		~4.5 hrs
			300 cycles	PE150	12 Gb	≥90%	~7.5 hrs
			400 cycles	SE400	16 Gb	≥80%	~16 hrs
FCX	1	40M	600 cycles	PE300	24 Gb	≥85%	~24 hrs
FCH[3]	1	80M	SE100-D	SE50	4 Gb	≥90%	~3.5 hrs
			SE100-D	SE100	8 Gb		~4.5 hrs
			100 cycles	PE50	8 Gb		~5.5 hrs
			300 cycles	PE150	24 Gb	≥90%	~12 hrs

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

1. 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.
2. 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.
3. FCH is designed to achieve a minimum output of 24Gb, with the potential to reach >30Gb under specific testing conditions.

Simply Fast

Swift

2.0 Hrs SE50
3.0 Hrs SE100
6.8 Hrs PE150

Lightning Chemistry
Plus reduce cycle time

50 %[3]

Saving

Reagent saving
Sequencing on demand

Reduce reagent consumption

70 %[3]

Simple

User-friendly Interface

7 minutes NGS run preparation

Social Responsible

Smart waste sorting and processing design

RT shipping and stroage for load-and-go Reagent

3. 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.
The availability of products and related data may vary depending on applicable laws, regulations, intellectual property considerations, and market access requirements in different countries or regions, and may change over time. For confirmation of availability in a particular market, please contact GeneMind or its authorized local distributor.
This document does not constitute any offer, commitment, or warranty.

Application

Applications	Reads length	Data/sample	Number of Samples / FC[4]		
			FCL	FCM	FCH[5]
			20 M	40 M	80 M
Small Oncology Panel（Tissue）	PE150	1 Gb	4	8	16
Small Oncology Panel（Plasma）	PE150	7 Gb	/	1	2
NIPT Basic	SE100	3.5 M reads	4	8	16
tNGS (based on probe capture)	SE50	1 M reads	20	40	80
HLA Typing	PE150	0.2 Gb	24	48	96

4. The above sample numbers for different applications are only for reference. Users need to adjust the sample numbers according to the actual experiment.
5. FCH is designed to achieve a minimum output of 24Gb, with the potential to reach >30Gb under specific testing conditions.

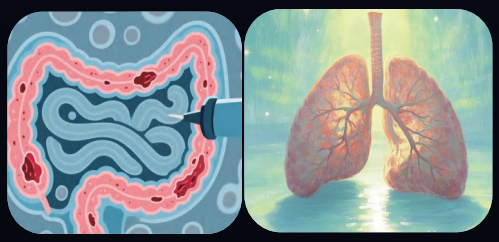
Total solution

GeneMind™ Lung & Colon Cancer (30 genes) Solution

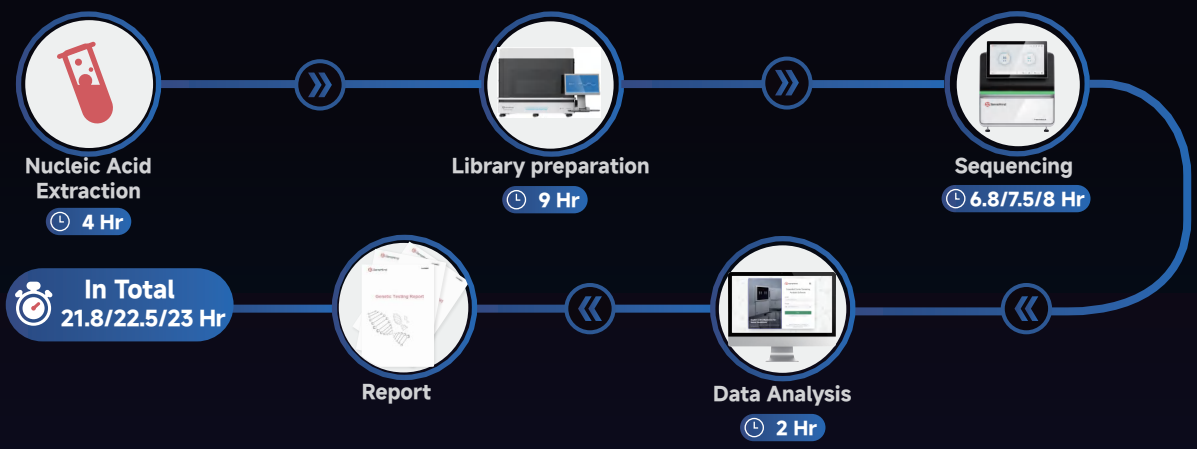
Introduction: The panel is a targeted sequencing assay for biomarker analysis of over 30 genes with known relevance to lung cancer and colorectal cancer, covering the gene testing targets which is approved by the FDA and NMPA, recommended by NCCN and CSCO guidelines. This hybrid capture based test detects 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[5] (≥1 Gb PE150)	1 FCL: 4; 1 FCM: 8; 1 FCH: 16
	Plasma (≥7 Gb PE150)	1 FCM: 1; 1 FCH: 2
Report generation		Local analysis and report system

5 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-30°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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