GeneMind

Explore Life’ s Mysteries for Better Healthcare

FASTASeq™ S

Simply Fast
Speed redefined



Not available in all countries.

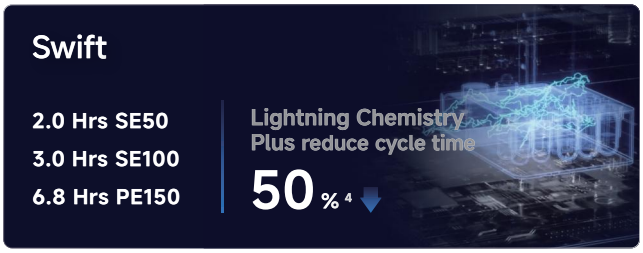
Product Parameter

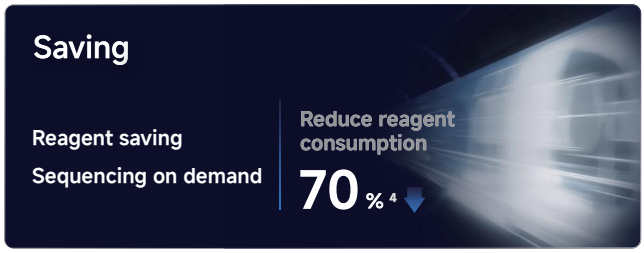
Parameter							
Flow cell type[1]	Lane	Throughput (Reads/FC)	Specification[1]	Read Length	Data Output[2]	Q30[2]	TAT[3]
FCL	1	20 M	SE100-D	SE100	2 Gb	≥90%	~ 3.0 hrs
			100 cycles	PE50			~ 4.0 hrs
			300 cycles	PE150	6 Gb	≥90%	~ 6.8 hrs
			600 cycles	PE300	12 Gb	≥90%	~ 15.0 hrs
FCM	1	40 M	SE100-D	SE100	4 Gb	≥90%	~3.5 hrs
			100 cycles	PE50			~ 4.5 hrs
			300 cycles	PE150	12 Gb	≥90%	~ 7.5 hrs
			600 cycles	PE300	24 Gb	≥90%	~ 17.0 hrs
FCH	1	80 M	SE100-D	SE100	8 Gb	≥90%	~ 4.5 hrs
			100 cycles	PE50			~ 5.5 hrs
			300 cycles	PE150	24 Gb	≥90%	~ 9.0 hrs

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

1. FCH reagents will be available in Q1, 2027.
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









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.

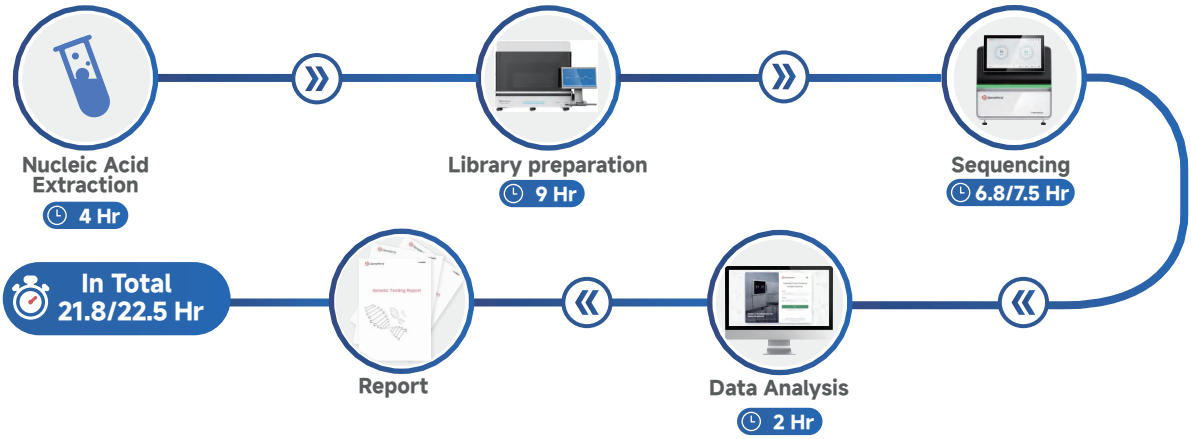
Applicable Population:

- ✓ 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

Ordering Information

Cat. No.	Product name	Specification
SQ00078	FASTASeq S Dx Sequencing System Set	CE-IVD
S000495	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-1 FCL-D 100-D
S000496	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-1 FCL 100
S000497	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-1 FCL 300
S000498	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-1 FCM-D 100-D
S000499	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-1 FCM 100
S000500	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-1 FCM 300
S000531	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-2 FCL 600
S000532	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-2 FCM 600
S000579	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-3 FCH-D 100-D
S000580	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-3 FCH 100
S000581	FASTASeq S Dx Universal Reaction Kit for Sequencing	S-3 FCH 300

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