

GeneMind™ Lung & Colon Cancer (30 genes) Solution

High sensitivity

Capable of detecting low-frequency variants as low as 0.2% in ctDNA

Sample compatibility

Supporting both tissue and liquid biopsy samples

Fusion detection

Adding *ROS1* fusion partners *CD74*, *SDC4*, *SLC34A2*, and *EZR* regions

Comprehensive variant detection

Capable of detecting multiple types of variants such as SNVs, InDels, Amplifications, and Fusions

Contains classic MSI sites

BAT-25, *BAT-26*, *NR-21*, *NR-22*, *NR-24*, *NR-27*, *MONO-27*, *D2S123*, *D5S346*, and *D17S250*

Low-level cross-contamination

100+ unlinked SNP loci.
Capable of detecting cross-individual human contamination at a minimum level of 1%

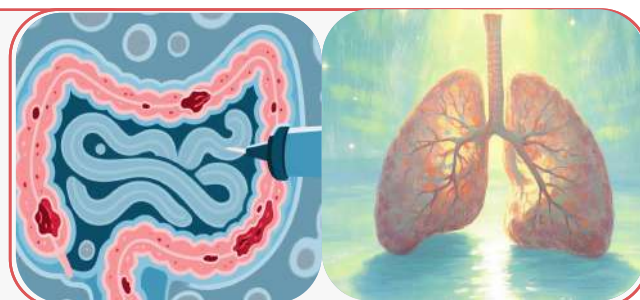


◎ Product Introduction

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 are approved by the FDA and NMPA, recommended by NCCN and CSCO guidelines. Utilizing the Multi-gene Mutation Combined Detection Kit, which has successfully obtained CE IVD qualification, 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



◎ Targets List

Complete CDS Coverage

<i>ALK</i>	<i>APC</i>	<i>BRAF</i>	<i>BRCA1</i>	<i>BRCA2</i>	<i>CD74</i>	<i>EGFR</i>	<i>ERBB2</i>	<i>EZR</i>	<i>KIT</i>
<i>KRAS</i>	<i>MAP2K1</i>	<i>MET</i>	<i>MLH1</i>	<i>MSH2</i>	<i>MSH6</i>	<i>NRAS</i>	<i>NRG1</i>	<i>NTRK1</i>	<i>NTRK2</i>
<i>NTRK3</i>	<i>PDGFRA</i>	<i>PIK3CA</i>	<i>PMS2</i>	<i>POLE</i>	<i>PTEN</i>	<i>RB1</i>	<i>RET</i>	<i>ROS1</i>	<i>SDC4</i>
<i>SLC34A2</i>	<i>TP53</i>								

Intron Coverage

<i>ALK</i> intron 18-20	<i>BCL2L11</i> intron 2	<i>CD74</i> intron 6-8	<i>ETV6</i> intron 4-6	<i>EZR</i> intron 9-11	<i>NTRK1</i> intron 8-13	<i>NTRK2</i> intron 10,12	<i>NTRK3</i> intron 11,12	<i>RET</i> intron 7-11	<i>ROS1</i> intron 31-35
<i>SDC4</i> intron 2,4	<i>SLC34A2</i> intron 4								

Fusion Targets

<i>ALK</i>	<i>CD74</i>	<i>EZR</i>	<i>ETV6</i>	<i>NRG1</i> *	<i>NTRK1</i>	<i>NTRK2</i>	<i>NTRK3</i>	<i>RET</i>	<i>ROS1</i>
<i>SDC4</i>	<i>SLC34A2</i>								

* *CD74* and *SDC4* are common rearrangement partners for *NRG1*.

MSI Sites

<i>BAT-25</i>	<i>BAT-26</i>	<i>CAT-25</i>	<i>D17S250</i>	<i>D17S261</i>	<i>D18S34</i>	<i>D18S35</i>	<i>D18S55</i>	<i>D2S123</i>	<i>D5S346</i>
<i>MONO-27</i>	<i>NR-21</i>	<i>NR-22</i>	<i>NR-24</i>	<i>NR-27</i>					

Chemotherapy targets

ABCB1	ACSS2	ATIC	C8orf34	CASP7	CBR3	CD3EAP	CDA	CMPK1	CSDE1
CYP19A1	CYP2C8	CYP2D6	DHFR	DPYD	DYNC2H1	ERCC1	ERCC2	FOLR3	GGH
GPX5	GPX7	GSTP1	MAP3K1	MSH3	MTHFR	MTRR	NQO1	NUDT15	PIK3CA
PRKCE	RAF1	RRM1	SEMA3C	SLC19A1	SLC28A1	SLC28A2	SLCO1B1	SOD2	TANC1
TEKT4	TP53	TPMT	TYMS	TYMSOS	UGT1A1	UGT1A8	UMPS	XPC	XRCC1

Specifications

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, Plasma			
Mapping rate		98.99%			
On-target rate		>70%			
Coverage uniformity		97%			
Sequencing platform		FASTASeq™ S	FASTASeq™ 300	GenoLab™ M	SURFSeq™ 5000
Number of sample/FC	Tissue/White blood cell* (≥1 Gb PE150)	1 FCL: 4 1 FCM: 8	1 FCM: 24 1 FCH: 56 1 FCP: 96	1 FCM: 48 1 FCH: 96	1 FCM: 96 1 FCH: 384
	Plasma (≥7 Gb PE150)	1 FCM: 1	1 FCM: 4 1 FCH: 8 1 FCP: 16	1 FCM: 8 1 FCH: 16	1 FCM: 16 1 FCH: 68 1 FCP: 112
Report generation		Local analysis and report system			

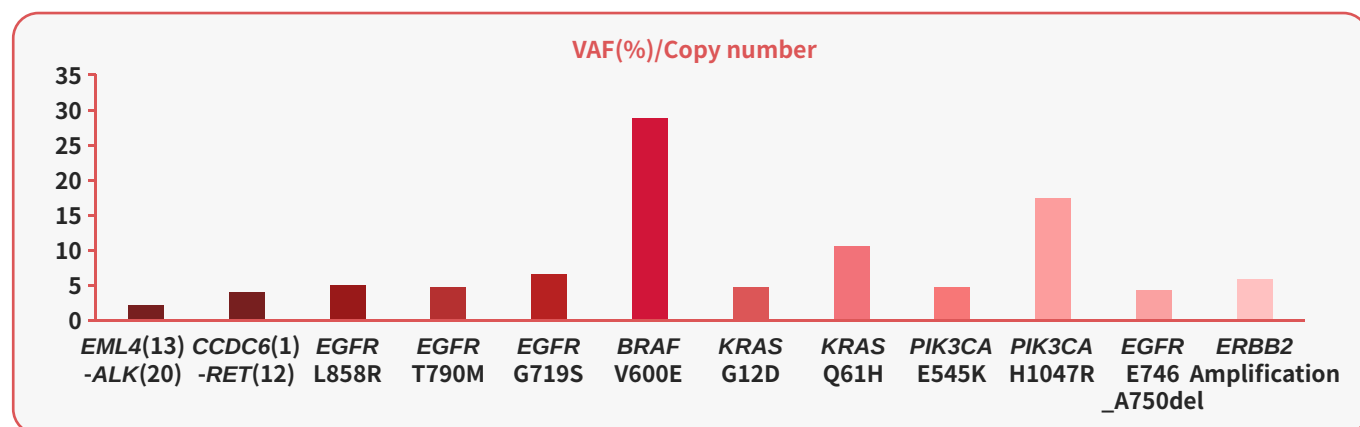
* White blood cells are recommended as a control to minimize interference from germline mutations.

GeneMind Oncology Solution Workflow



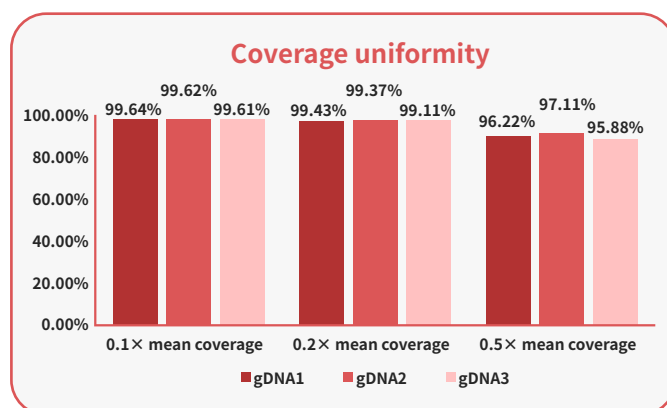
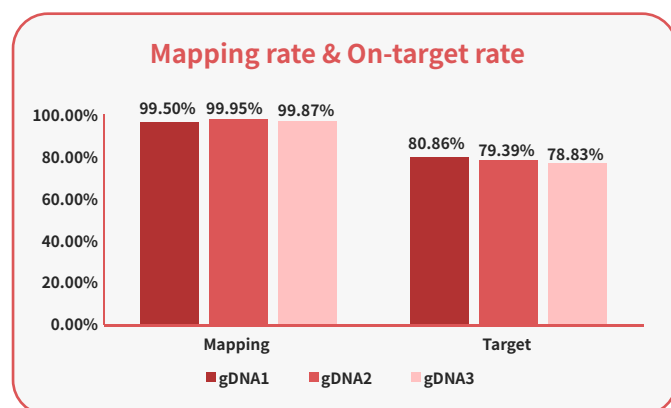
◎ Performance of Variants Detection*

SV		SNV								INDEL	CNV
<i>EML4</i> (13)- <i>ALK</i> (20)	<i>CCDC6</i> (1)- <i>RET</i> (12)	<i>EGFR</i> L858R	<i>EGFR</i> T790M	<i>EGFR</i> G719S	<i>BRAF</i> V600E	<i>KRAS</i> G12D	<i>KRAS</i> Q61H	<i>PIK3CA</i> E545K	<i>PIK3CA</i> H1047R	<i>EGFR</i> E746_A750del	<i>ERBB2</i> Amplification
4.20%	5.10%	4.80%	4.60%	5.20%	N A	5.30%	N A	4.60%	N A	4.90%	6.3 copies
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



* Using Cobioer Panel-Ref® gDNA Cocktail III Reference Standard (CBP90010).

◎ Performance of Panel**



** gDNA1 is SNV 5% gDNA standard II of Genewell (GW-OGTM006), gDNA2 is SV 5% gDNA standard of Genewell (GW-OGTM001), gDNA3 is SV 0.5% gDNA standard of Genewell (GW-OGTM001).

✘ Disclaimer

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