GENETRON 泛生子

ANSWERS FOR CANCER

RUO

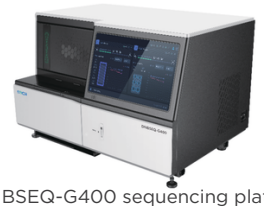
Lung Basic Mutations Detection Kit

DNA and RNA Targeted Lung Cancer Detection

Main Features： The Lung Basic Test is a qualitative detection test that uses One-Step multiplex PCR, targeted high throughput sequencing technology (DNBSEQ-G99/-G400) to detect single nucleotide variants (SNVs), insertions, and deletions in 48 genes from DNA, fusions in 5 genes from RNA isolated from formalin-fixed paraffin-embedded (FFPE) or fresh tissue samples for research applications related to non-small cell lung cancer (NSCLC), including core genes EGFR, KRAS, BRAF, HER2, PIK3CA, ALK, ROS1 and MET etc.


Lung basic testing kit


DNBSEQ-G99 sequencing platform


DNBSEQ-G400 sequencing platform

Note: Automated data analysis and reporting in MegaBOLT/Z-BOLT

Product Advantages

01

Super fast library construction: One-step patented technology[1]

- Hands-on time: 20 minutes
- Library construction: 4 hours
- Minimum requirement to enable more testing : 3 FFPE slices

02

Wider coverage with fusion mutation detection

- RNA detection included, for fusion detection
- Variant detection rate increase by 18.2%[2] compared to DNA-only detection

【1】Hai Yan et al.One-step method for rapid construction of amplicon libraries, China.
【2】Internal testing data

Gene List

Point Mutations (SNVs) and Deletion/Insertion Variants (Indels) -DNA (48 Genes)										
Genes based on public oncology databases	*EGFR*	*ALK*	*KRAS*	*ERBB2*	*BRAF*	*RET*	*MET*			
Genes studied in disease outcome research	*TP53*	*STK11*	*PTEN*	*RB1*	*CDKN2A*	*PIK3CA*				
Common genes frequently reported in literature and clinical studies	*JAK3*	*HRAS*	*VHL*	*NRAS*	*KIT*	*IDH2*	*FBXW7*	*FLT3*	*JAK2*	*FGFR2*
	PDGFRA	*ATM*	*FGFR3*	*MPL*	*IDH1*	*GNAS*	*EZH2*	*SMARCB1*	*PTPN11*	*GNA11*
	GNAQ	*AKT1*	*CTNNB1*	*KDR*	*NOTCH1*	*HNF1A*				
Common genes in pre-Clinical Study	*SMAD4*	*SMO*	*SRC*	*APC*	*ERBB4*	*CDH1*	*CSF1R*	*ABL1*	*FGFR1*	
Fusions -RNA (5 Genes)										
Genes based on public oncology databases	*ALK*	*ROS1*	*RET*	*MET*	*NTRK1*					

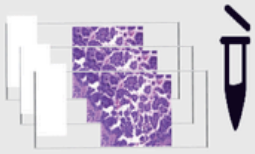
- The genes fragment cover the hotspot locations
- This kit is used to qualitatively detect SNV Indels of 48 genes in DNA, the fusion of 5 genes in RNA including the skipping of MET exon 14

Super Fast One-step Library Construction

Finish within 2 days

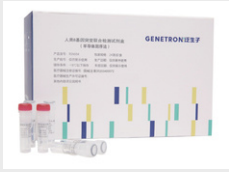
DNA+ RNA Extraction	2.5h-4h	Lung Basic test kit (DNBSEQ-G99)	4h	DNB generation	2h-4h	DNBSEQ-G99	12h	Report generation	1h-3.5h

Sample preparation



DNA>20ng
RNA>50ng

Library preparation



Complete library construction with greater stability

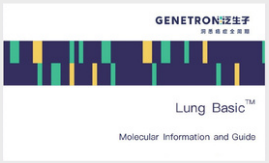
Library loading

Circulisation, DNB, Expand sequencing signal

Sequencing

Ready-to-use modular sequencing reagents, output 24 Gb-48 Gb in 12 hours

BAM/fasta/vcf Report



Automated reporting system

One-step library construction + G99 = Faster than faster

Company Introduction

Genetron Health is a leading precision oncology platform company in China. We specialize in the providing technologies supporting cancer genomics research, providing early screening, medication guidance, prognosis & monitoring, and new cancer drug development services that cover the entire spectrum of cancer management. We are committed to applying innovative technology to cancer related diagnosis and treatment and to ultimately defeating cancer.

Vision Healing cancer through relentless exploration and innovation in cancer genomics

Mission Defeat cancer, protect life

01 EARLY SCREENING

02 DIAGNOSTICS & MONITORING

03 BIOPHARMA DEVELOPMENT SERVICES

Our Proprietary Technology

- One-step Seq Method
- Mutation Capsule

Our Global Recognition

- CAP CLIA ISO 15189