TRIVITRON
HEALTHCARE
speaking your language

END-TO-END SOLUTIONS FOR GENOMICS (NGS) IN **CANCER, NEWBORN SCREENING & INFECTIOUS DISEASES**

- **tNGS LSD Panel**
- **tNGS Cancer Panels**
  - Cancer 50
  - BRCA Panel
  - Lung Cancer Panel
  - Colorectal Cancer Panel
- **Sepsis/AMR**
- **Newborn Screening**

tNGS LSD Panel

Lysosomal storage disorder (LSD) is an inborn error of metabolism. It is a group of diseases that are caused by certain improper or non-functional lysosome enzymes. This kit is based on the Next Generation sequencing (Massive Parallel Sequencing) that captures and amplifies the 23 target genes responsible for LSD. The sequencing results can help clinicians to identify any possible mutations in genes associated with 23 common LSDs at the same time.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management
- Shorter TAT helps to reduce the psychological burden & provides appropriate genetic counselling to parents

Work flow

Capture | Clean up | Amplification | Sequencing | Automated data analysis and variant calling

Diseases covered

- Gaucher
- Niemann-Pick A/B/C
- Morquio-A/B
- Pompe
- Fabry
- Tay-Sachs
- GM1 Gangliosidosis
- Maroteaux-Lamy
- Hurler
- Hunter
- Sanphilippo-A/B
- Sandhoff
- NCL-2
- Mucolipidosis-II alpha/ beta
- Mucolipidosis-III alpha/ beta
- Metachromatic leukodystrophy
- Krabbe diseases

Cancer 50

tNGS for Cancer 50 test can be performed on solid tumor material from the patient. This test identifies the mutations across the 50 genes and helps in choosing precision medicine cancer therapy for the patient.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management

Work flow

Target Amplification | **Library Preparation** | **Clean Up** | **Sequencing** | **Automated data analysis and variant calling**

Genes Covered

- ABL1
- AKT1
- ALK
- APC
- ATM
- BRAF
- CDH1
- CDKN2A
- CSF1R
- CTNNB1
- EGFR
- ERBB2
- ERBB4
- EZH2
- FBXW7
- FGFR1
- FGFR2
- FGFR3
- FLT3
- GNA11
- GNAQ
- GNAS
- HNF1A
- HRAS
- IDH1
- IDH2
- JAK2
- JAK3
- KDR
- KIT
- KRAS
- MET
- MLH1
- MPL
- NOTCH1
- NPM1
- NRAS
- PDGFRA
- PIK3CA
- PTEN
- PTPN11
- RB1
- RET
- SMAD4
- SMARCB1
- SMO
- SRC
- STK11
- TP53
- VHK

BRCA Panel

The kit is based on the Next Generation Sequencing (Massive Parallel Sequencing) that captures and amplifies the 14 target genes responsible for BRCA diagnosis and therapy. The sequencing results can help clinicians to identify any possible mutations in key genes associated with BRCA cancer at the same time.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management

Work flow

Target Amplification | **Library Preparation** | **Clean Up** | **Sequencing** | **Automated data analysis and variant calling**

Genes Covered

- ERBB2
- PIK3CA
- BRAC1/2
- ESR1
- PTEN
- AKT1
- MDM2
- ERBB3
- NF1
- MLH1
- MSH2
- PMS1
- PMS2

Lung Cancer Panel

The kit is based on the Next Generation Sequencing (Massive Parallel Sequencing) that captures and amplifies the 22 target genes.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management

Work flow

Target Amplification | **Library Preparation** | **Clean Up** | **Sequencing** | **Automated data analysis and variant calling**

Genes Covered

KRAS	ERBB2	ALK	SMAD4	FGFR1
EGFR	PTEN	DDR2	FBX7	FGFR2
BRAF	NRAS	CTNNB1	FGFR3	
PIK3CA	STK11	MET	NOTCH1	
AKT1	MAP2K1	STP53	ERBB4	

Colorectal Cancer Panel

The kit is based on the Next Generation Sequencing (Massive Parallel Sequencing) that captures and amplifies the 22 target genes.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management

Work flow

Target Amplification | **Library Preparation** | **Clean Up** | **Sequencing** | **Automated data analysis and variant calling**

Genes Covered

KRAS	ERBB2	ALK	SMAD4	FGFR1
EGFR	PTEN	DDR2	FBX7	FGFR2
BRAF	NRAS	CTNNB1	FGFR3	
PIK3CA	STK11	MET	NOTCH1	
AKT1	MAP2K1	STP53	ERBB4	

Sepsis Panel

The kit is based on the Next Generation Sequencing (Massive Parallel Sequencing) that captures and amplifies the 16 common sepsis causing pathogens. The sequencing results can help clinicians to identify any possible microorganism associated with sepsis.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management
- Shorter TAT helps to reduce the psychological burden & provides appropriate genetic counselling to parents

Work flow

Pathogens Covered

- *Escherichia coli*
- *Klebsiella pneumoniae*
- *Pseudomonas aeruginosa*
- *Acinetobacter baumanii*
- *Neisseria meningitides*
- *Haemophilus influenza*
- *Streptococcus pneumoniae*
- *Streptococcus suis*
- *Enterococcus faecalis*
- *Proteus mirabilis*
- *Proteus vulgaris*
- *Bacteroides fragilis*
- *Streptococcus pyogenes*
- *Staphylococcus aureus*
- *Clostridium difficile*
- *Histoplasma capsulatum*

Newborn Screening

Neonatal screening or Newborn Screening involves the screening of newborns in the first days of their lives for inborn errors of metabolism and certain disorders that can hinder the normal development of the baby. These disorders are not apparent at the time of the baby's birth but have potential to cause permanent neurological, cognitive, tactile and physical damage in the child. This kit is based on the Next Generation Sequencing (Massive Parallel Sequencing) that captures and amplifies the 9 common newborn disorders.

Key features

- No extra reagents (Library preparation Kit) required
- No additional bioinformatician required
- Cost-effective
- Semi-automated pipeline
- Short processing time
- Optimized clinical management
- Shorter TAT helps to reduce the psychological burden & provides appropriate genetic counselling to parents

Work flow

Diseases Covered

- Congenital hypothyroidism (CH)
- Congenital adrenal hyperplasia (CAH) (21-Hydroxylase-Deficiency)
- Phenylketonurie (PKU)
- Sickle cell disease (HbSS,
- HbS/β-thalassemia, HbS/C)
- Galactosemia
- Cystic Fibrosis (CF)
- Spinal Muscular Atrophy (SMA)
  Phenylketonurie (PKU)
- Severe Combined Immunodeficiency (SCID)

corporate@trivitron.com | www.trivitron.com
Customer Care Helpline: +91 98400 80008