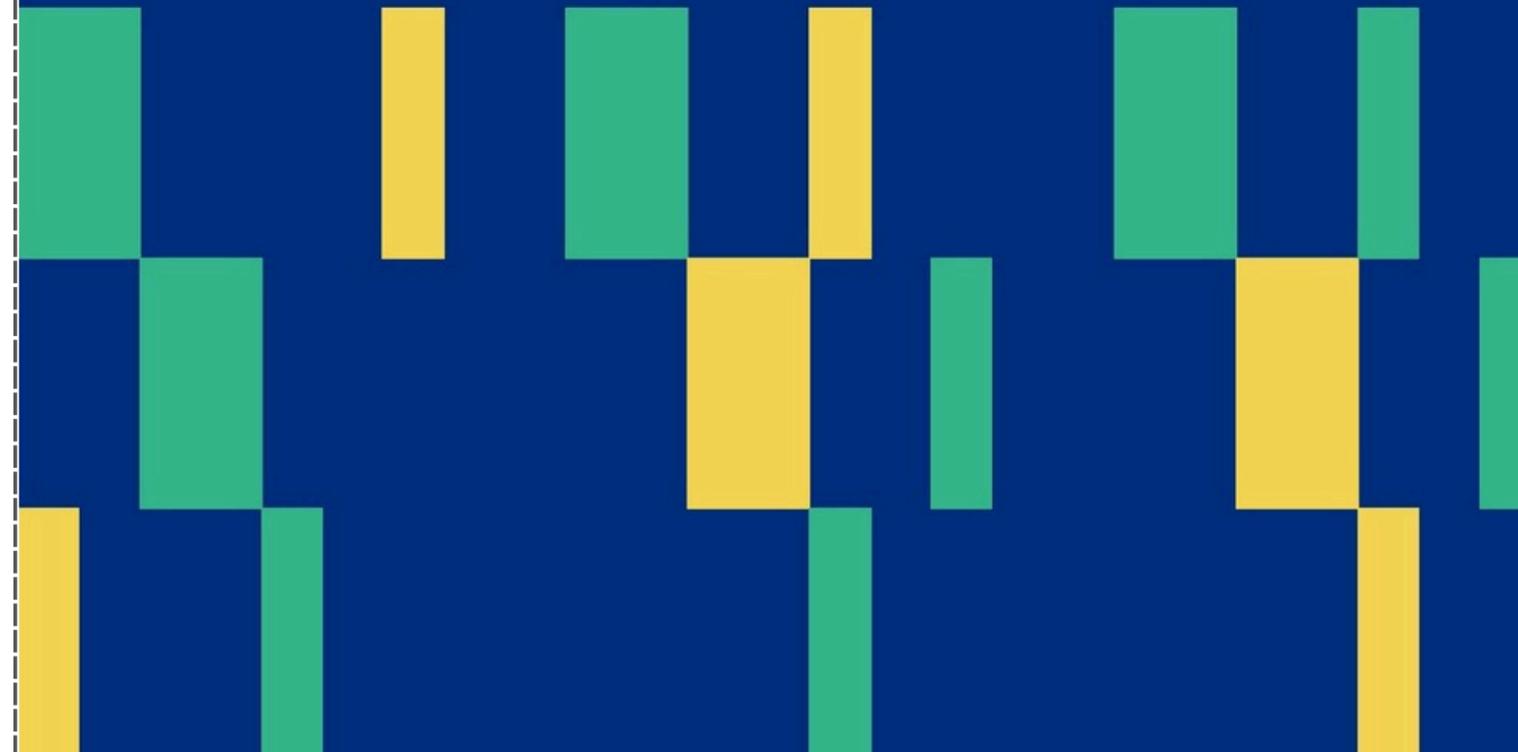


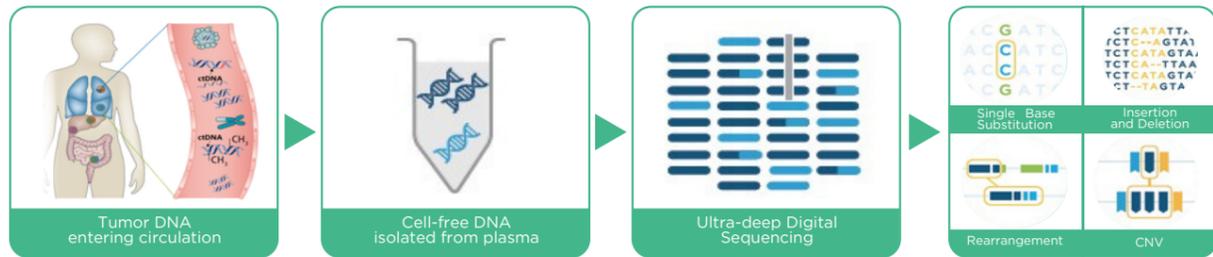
Onco PanScan™

RUO

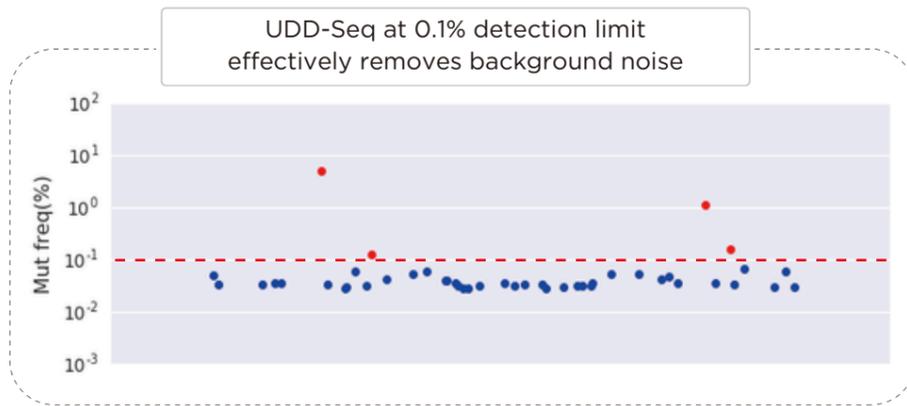
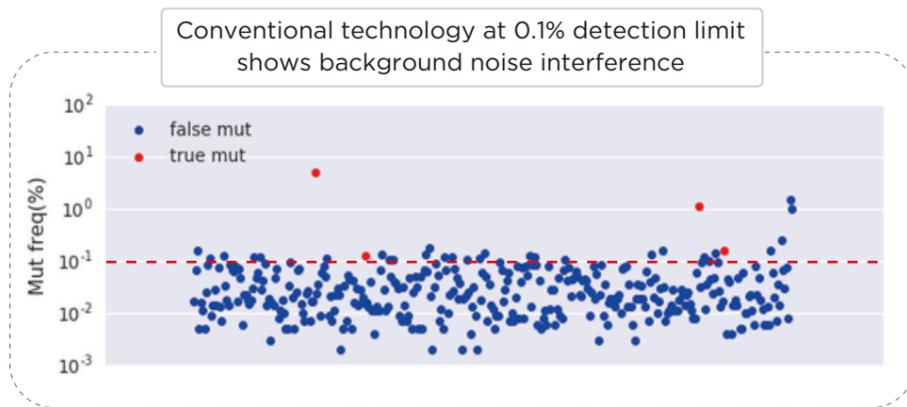


**ANSWERS
FOR
CANCER**

Onco PanScan™ utilizes proprietary Ultra-Deep Digital Sequencing (UDD-Seq) technology for non-invasive profiling of circulating tumor DNA (ctDNA). With sequencing depth exceeding 10,000x and analytical sensitivity down to 0.1% variant allele frequency, the platform enables high-confidence detection of low-frequency genomic variants for molecular profiling and longitudinal research applications.



Advantages of Genetron Liquid Biopsy UDD-Seq Technology

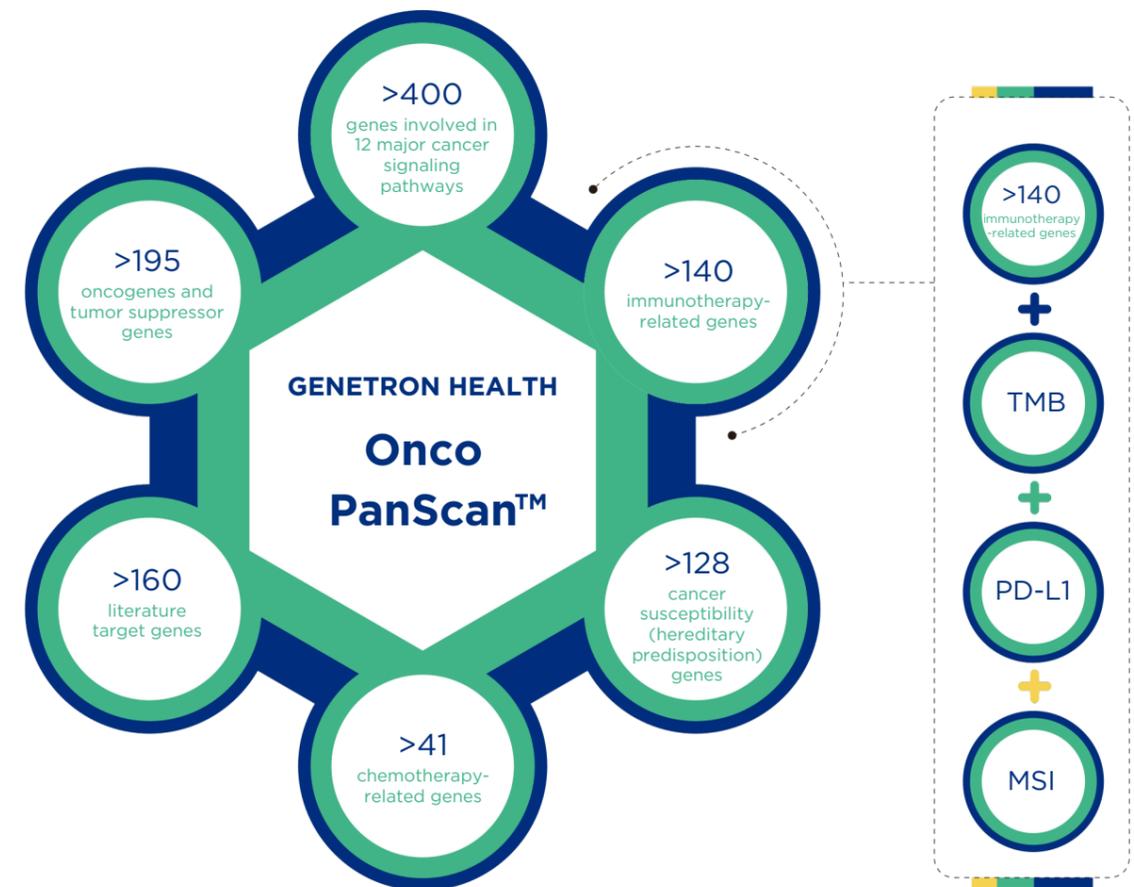


- Duplex Barcode Labeling**
Accurate detection of rare cfDNA variants
- Ultra-deep sequencing**
Detection sensitivity as low as 0.1%
- Three core algorithms**
Background error removal

Onco PanScan™ Precision Molecular Profiling

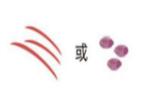
Onco PanScan™ target gene and genomic region design is based on curated cancer genomics databases including COSMIC, My Cancer Genome, and TCGA, and peer-reviewed literature. The panel content also incorporates insights from established comprehensive genomic profiling assays and large-scale genomic datasets derived from Chinese populations. This integrated design approach supports a comprehensive and up-to-date genomic content strategy aligned with current scientific understanding of tumor biology and immuno-oncology research.

In recent years, immuno-oncology research has expanded rapidly, with extensive investigation into biomarkers such as PD-L1, TMB, MSI, and immune-related genomic alterations. Onco PanScan™ enables multi-dimensional analysis of immuno-oncology-associated biomarkers to support molecular characterization and translational research applications.



- Point mutations
- Insertions/Deletions
- gene fusions
- Copy number variations

Sample requirements

Tissue Version - All tissue samples must be paired with matched peripheral blood or saliva as a control						
	Tissue Sample 1	Tissue Sample 2	Tissue Sample 3	Tissue Sample 4	Control Sample 1	Control Sample 2
Sample Type	FFPE slides or paraffin blocks 	Fresh or frozen surgical tissue 	Fresh or frozen biopsy (needle/core) tissue 	Formalin-fixed fresh tissue 	Peripheral blood (preferred) 	Saliva 
Minimum Sample Requirements	<ul style="list-style-type: none"> Surgical tissue: at least 5 slides Biopsy tissue: 15-20 slides Unstained slide thickness $\geq 5 \mu\text{m}$ At least one H&E-stained slide required 	<ul style="list-style-type: none"> Approximately soybean-sized tissue Tumor content $\geq 50\%$ 	<ul style="list-style-type: none"> Biopsy length $> 1 \text{ cm}$, at least 2 cores Tumor content $\geq 50\%$ 	<ul style="list-style-type: none"> Approximately soybean-sized tissue, 1 piece Tumor content $\geq 50\%$ 	Collect 6 mL peripheral blood in an EDTA tube	Collect 2 mL saliva using the saliva collection kit
Transportation Method	Room temperature transport	Room temperature transport (Frozen samples require dry ice transport)	Room temperature transport (Frozen samples require dry ice transport)	Room temperature transport	Transport at 6-37°C	Room temperature transport
Genetron Consumables Provided		Cryotube (with RNAlater preservation solution)	Cryotube (with RNAlater preservation solution)		EDTA blood collection tube (6 mL)	Saliva collection kit

Blood Version - Sample Requirements

Sample Type	Minimum Sample Requirement	Transportation Method	Genetron-Provided Consumables
Whole Blood	10mL	6-37°C, within 3 days	Streck tube (10 mL)
Plasma	>4mL	Dry ice transport	1.5 mL EP tube (microcentrifuge tube)