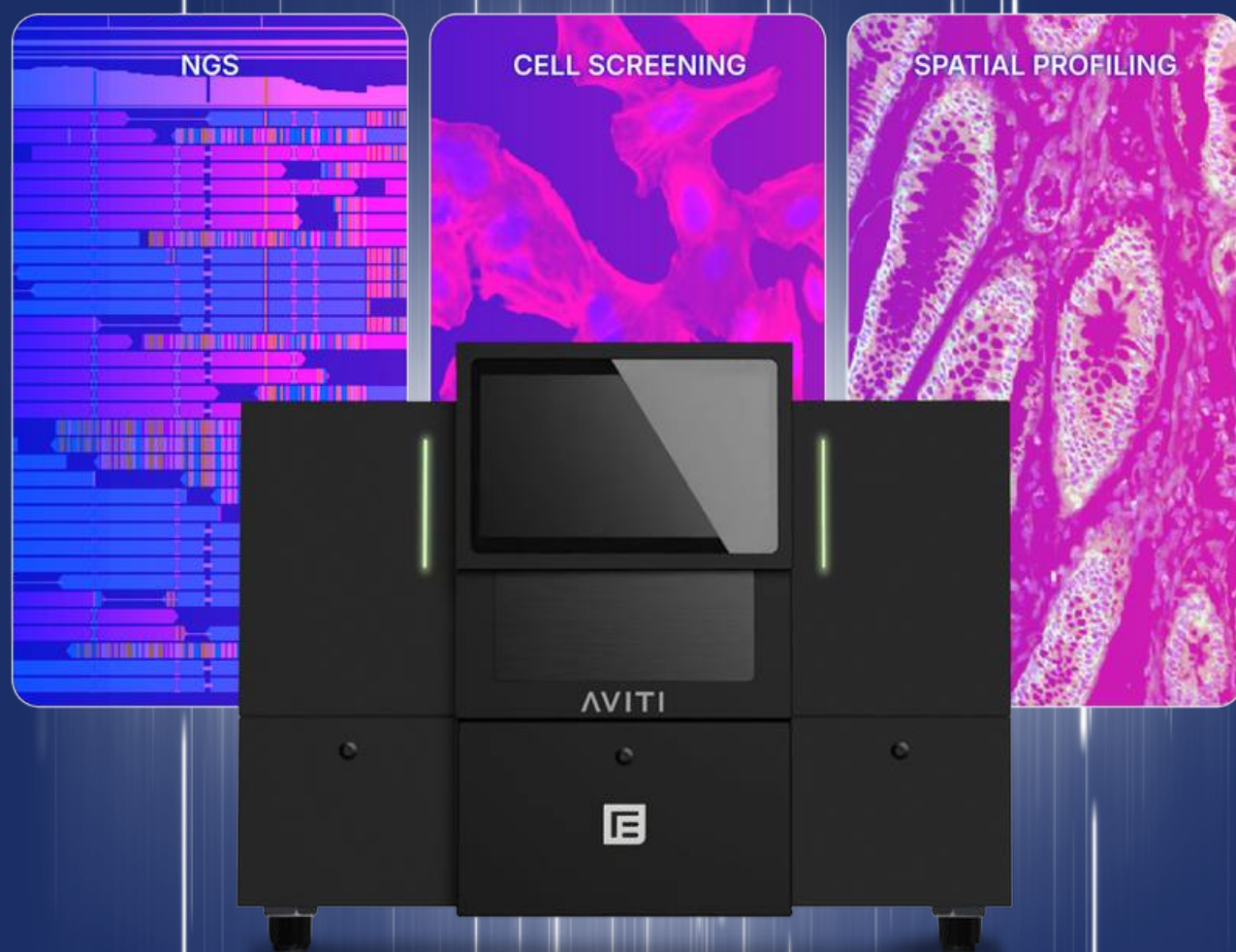


AVITI24™

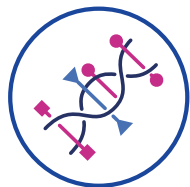
Sequencing. Screening. Spatial profiling.

One system, more ways to see biology.



AVITI24: A full view of biology with one platform

AVITI24 is the only integrated sequencing, cell screening, and spatial biology platform built so you can see more biology. A single benchtop system with industry-leading accuracy and dual-sided flexibility so your lab can move faster, from first signal to deep biological insight.



Sequencing

Whole genome sequencing, targeted panels, RNA-seq, single cell sequencing



AVITI24



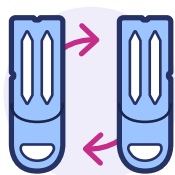
Cytos™ cell screening

Multimodal pooled CRISPR screening and drug screening

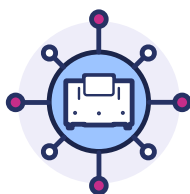


Spatial profiling (coming soon)

Tissue biology, spatial variant detection



Flexible, dual-sided platform



Multifunctional system

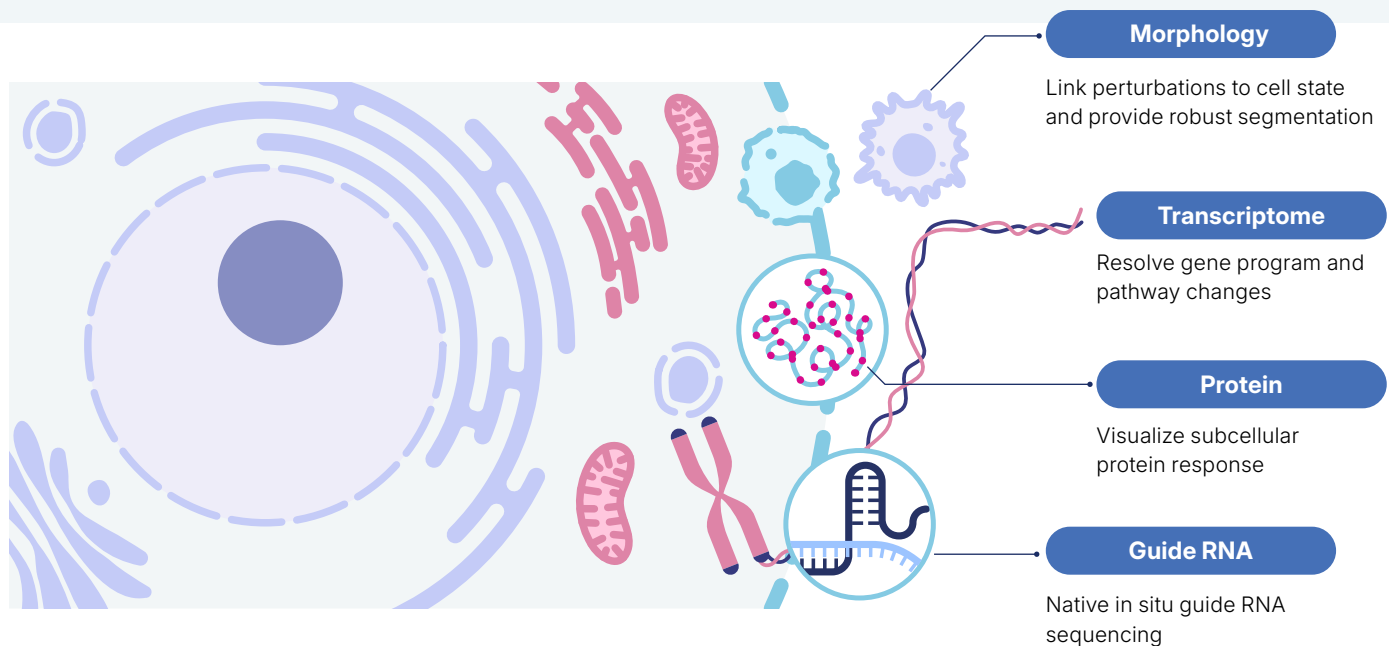


Evolves with your research

Cell screening with Cytos

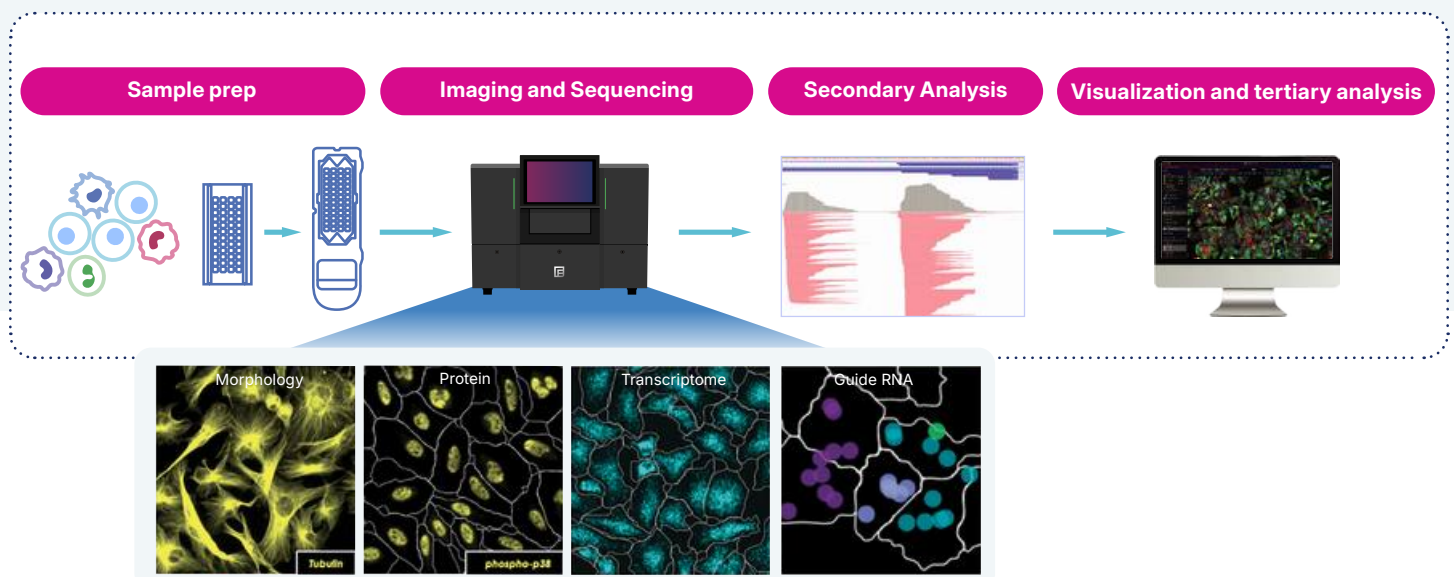
See the biology driving every screen.

Built for CRISPR screening and drug screening, Cytos pairs same-cell morphology, transcriptome, guide RNA sequencing, and protein detection in a single run, revealing more biology in every experiment.



Automated multiomic workflows

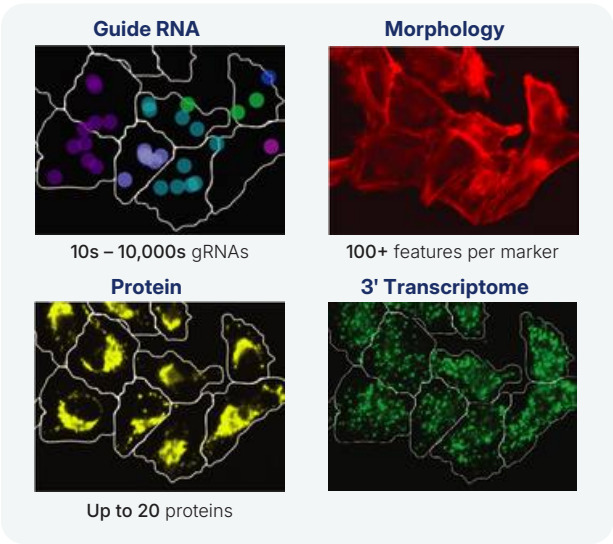
Cytos connects every step from sample to insight with no library prep, under an hour of sample prep, automatic secondary analysis via ElemBio Catalyst™, and multiomic visualization, so labs can start interpreting results on day one.



Cell screening applications

CRISPR screening

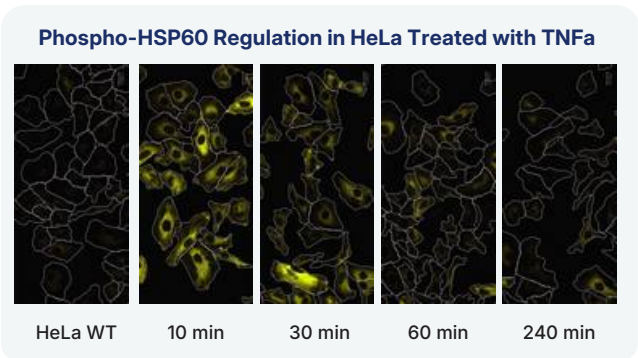
Link genotype to phenotype with richer insights. Whether you're determining how gene loss impacts cell state, understanding how a genetic perturbation alters a pathway, or determining the mechanism that explains a gene's function—a single screen with Cytos answers it all.



	Protein (up to 20, including custom protein and morphology markers)	Cell Paint (membrane, nucleus, actin, mitochondria)	Guide RNAs (10s-10ks)	3' Transcriptome (poly-A)
Cytos Optical Pooled Screening	✓	✓	✓	
Cytos Multimodal Pooled Screening	✓	✓	✓	✓

Phenotypic drug discovery

Understand cellular responses to drug perturbations with real depth. Linked molecular and morphology data from the same cell capture multi-layer biological signals across drugs, doses, and timepoints, moving beyond single-endpoint assays to uncover mechanisms of action and resistance, toxicity, and biomarker discovery.



	Protein (up to 20)	Cell Paint (membrane, nucleus, actin, mitochondria)	Guide RNAs (10s-10ks)	3' Transcriptome (poly-A)
Cytos 3' Transcriptome	✓	✓		✓

Your solution for cell screening

Same cell multiomic readouts

One automated instrument

Easy morphology and protein customization

No library prep, no NGS libraries

Rapid speed to insight

Streamlined end-to-end workflows

Spatial profiling

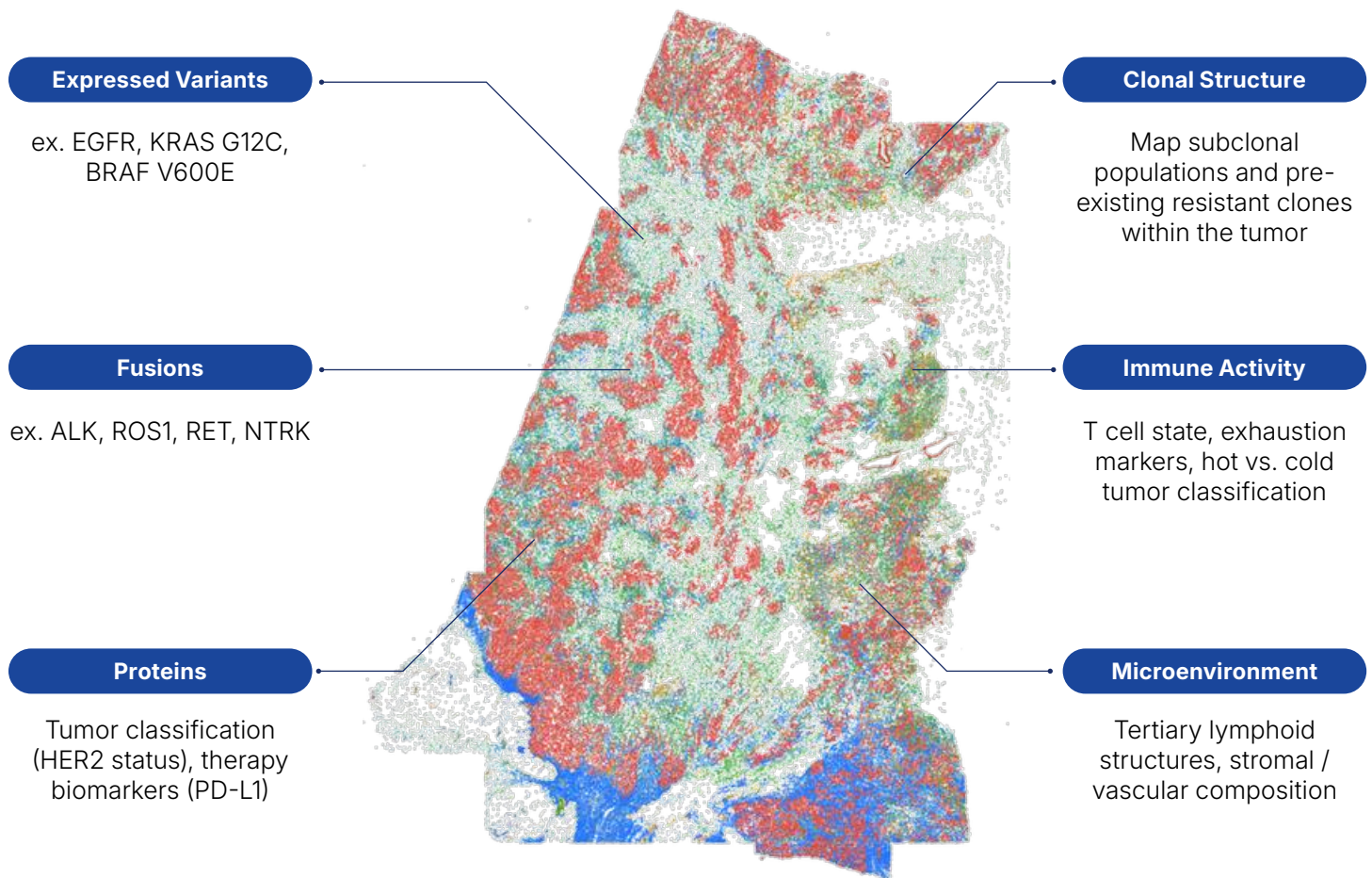
COMING SOON ON AVITI24™

Harness Direct In Sample Sequencing to resolve complex variants in their native tissue microenvironment

AVITI24 will soon deliver spatial variant detection, sequencing expressed variants (SNPs, indels, fusions) directly in fresh frozen or FFPE tissue.

Customizable readouts based on Direct In Sample Sequencing

- Targeted cell typing/pathway panels
- Protein expression and localization
- Expressed variant and fusion



Same instrument. Same chemistry foundation. New dimension of biology.

20 cm² area per dual-sided run

Automated, onboard library prep

FFPE and FF tissue compatibility

Same sample, post run H&E enabled

Sequencing

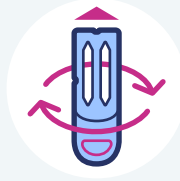
THE FOUNDATION BEHIND EVERY AVITI24 RUN

At its foundation, AVITI24 delivers rapid, affordable NGS insights at any scale. Since it's powered by Avidite Base Chemistry™ (ABC™), speed, flexibility, and data quality start at the chemistry itself.



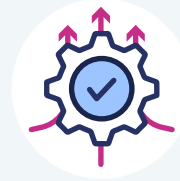
>70% Q50

Accuracy with Cloudbreak
UltraQ™ kits



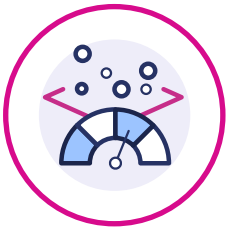
Up to 3B reads

per dual-sided run, up to a 50%
increase over our AVITI™ system.



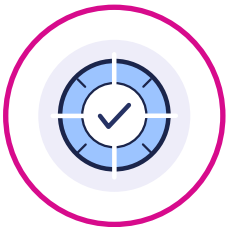
2×75-2×300

Flexible read lengths
and throughput



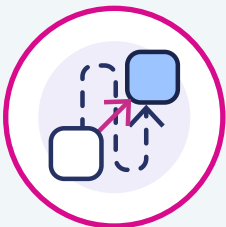
Flexible throughput

Scale from a single sample to full runs without batching smaller experiments or paying a premium, whether you're running whole genome sequencing, targeted panels, or RNA sequencing.



Uncompromising accuracy

Industry-leading Q50 and Q40 performance supports confident variant calling, from MRD research to low-frequency detection in liquid biopsy.



Streamlined workflows

Cloudbreak Freestyle™ kits load most third-party libraries directly with no conversion step required. Trinity™ kits streamline targeted and capture sequencing with reduced hands-on time.

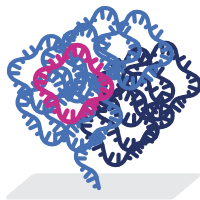
Industry-leading accuracy with ABC

Avidite Base Chemistry (ABC) is the sequencing technology behind our instruments. ABC optimized each step independently, across surface chemistry, biochemistry, engineering, and data analysis. The result is consistently higher accuracy, lower reagent consumption, and a chemistry architecture built to keep advancing.



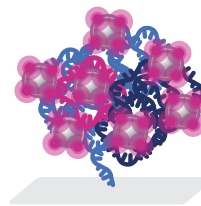
Circularize

Library molecules circularize on the flow cell.



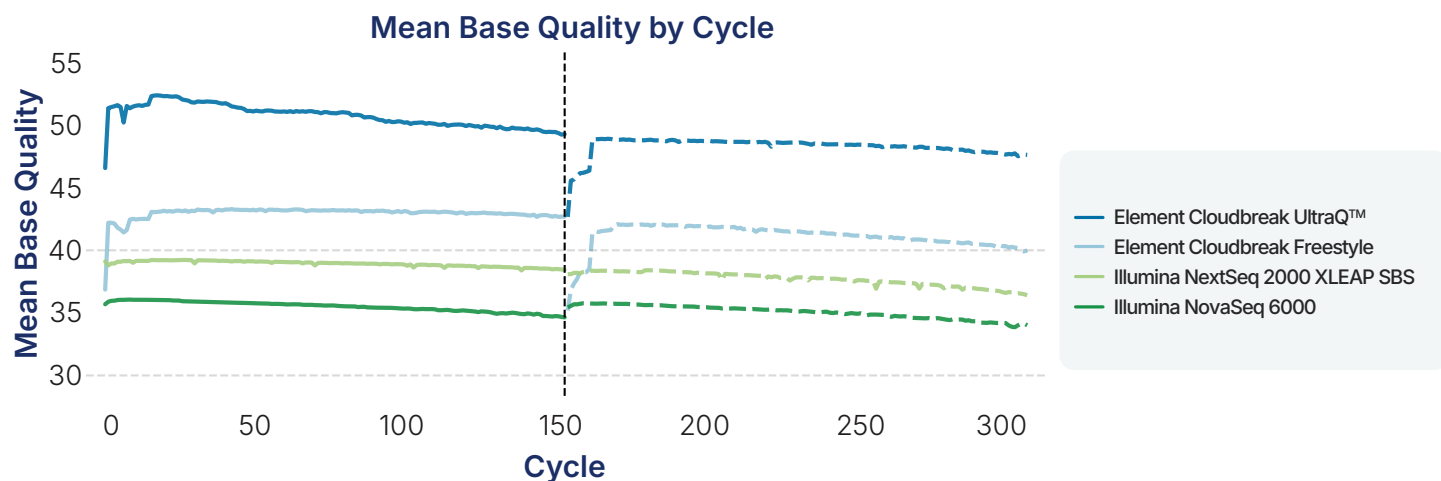
Amplify

Rolling circle amplification builds a clean polony, no PCR artifacts.



Sequence

Avidites bind at multiple sites for stable, precise base calling.



AVITI24. One system. Three ways to see biology.

Sequencing — confident biological answers, from WGS to single cell

Cell screening — turn hits into mechanisms with Cytos

Spatial profiling — map biology in tissue, coming soon

Headquarters

10055 Barnes Canyon Road
Suite 100
San Diego, CA 92121
Telephone: 619.353.0300
Web: elementbiosciences.com
Email: info@elembio.com

Technical Support

Telephone: 866.353.6246
Email: support@elembio.com

We are global

Service providers
elementbiosciences.com/resources/service-providers

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OFFICIAL INDIA CHANNEL PARTNER



Genique
Lifesciences™

Unit-805, 8th Floor, Unitech Arcadia, South City-2,
Sector 49, Gurugram, Haryana 122018, India
contact@genique.co +91 124-426-3051

genique.co

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