Precision Molecular Detection & Quantification

PCR · qPCR · RT-qPCR · Digital PCR. Sensitive detection and precise quantification of DNA and RNA targets.

Sensitive detection and precise quantification of DNA and RNA targets, from gene expression and biomarker validation to rare mutations and circulating nucleic acids. Technologies: PCR, RT-qPCR, qPCR and digital PCR (dPCR). Instruments: QuantStudio Absolute Q, QuantStudio 5, Fragment Analyzer, ProFlex and Eppendorf cyclers.

WHAT THIS PLATFORM RUNS

SERVICE OR TECHNIQUE	WHAT IT COVERS	TYPICAL USE
Rare Mutation Detection	Sensitive detection and quantification of low-frequency genetic variants, including somatic mutations and circulating tumor DNA (ctDNA)	Rare mutations and low-frequency variants
Liquid Biopsy & Circulating Nucleic Acids	Targeted analysis of cell-free DNA (cfDNA) and cell-free RNA (cfRNA), including low-abundance molecular biomarkers in biofluids	cfDNA, ctDNA and cfRNA analysis
Gene Expression & Transcript Validation	Relative or absolute quantification of selected transcripts, including low-abundance RNA targets and orthogonal validation of RNA-seq findings	Gene expression and RNA-seq validation
Copy Number & Molecular Detection	Quantification of gene copy number variations, transgene integrations and selected DNA or RNA targets using qPCR or dPCR	Copy number variation and transgene quantification

WHAT IT LETS YOU DO

Rare mutations & low-frequency variants
Somatic mutations and circulating tumor DNA.

cfDNA, ctDNA & cfRNA analysis
Low-abundance molecular biomarkers in biofluids.

Low-abundance transcript detection
Gene expression and RNA-seq validation.

Copy number & targeted microbial detection
Copy number variation, transgene quantification and targeted microbial nucleic acid detection.

Where this platform stops. Assay design support, analysis and interpretation of the results are run by GENXMAP's computational team. Ask for them in the same quote.

Turnaround. Standard (4–6 weeks) / Priority (2–4 weeks): business days, from GO after sample reception QC. Routine services run to 72 hours (for example genotyping once the line is validated). The date in your quote is the one that binds us.

SAMPLES, DELIVERABLES AND ORDERING

Samples. Extracted DNA or RNA, or the sample itself if extraction is part of the project. Input is confirmed once your target is scoped.

For RT-qPCR, the RNA thresholds apply (A260/280 of at least 1.8, RIN above 7 where applicable).

genxmap.com/lab/sample-submission-guidelines#qpcr

Deliverables. Result tables per plate and per sample, with the QC report of the run.

Quality-controlled primary data and platform documentation. Analysis and interpretation can be added to the same quote.

genxmap.com/lab/turnaround-times

Ordering. Request a quote with your sample type, the number of samples and the question you are asking. We reply within 2 business days.

Not sure of the input? We confirm it before you ship anything.

genxmap.com/contact

QUOTES AND ORDERING

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SAMPLES, PROTOCOLS, QC

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LABORATORY

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