QIAseq® – revealing the answers you seek

Unlock the potential of next-generation sequencing with QIAseq comprehensive solutions



DNA sequencing

Find variants with confidence

Scan here for more info

Access the breadth and depth of genomic discovery that your research requires in less time and with lower cost and also benefit from an integrated bioinformatics pipeline. A few of our kits are highlighted below.

Application	Kit(s)	Analysis
Whole genome sequencing (WGS)	QIAseq FX DNA Library Kit – streamlined 2.5 hour workflow that is automation-friendly, optimized for WGS and compatible with downstream target enrichment for 20 pg - 1 ug input range	QIAGEN® CLC® Genomics Workbench – comprehensive data analysis and visualization package that supports all typical NGS workflows
Metagenomic sequencing	QIAseq Ultralow Input Library Kit - ultra-efficient chemistry, compatible with a wider range of sample types (cfDNA, FFPE, ancient DNA, ChIP samples) for 10 pg - 100 ng input range	
Targeted sequencing by hybrid-capture	QIAseq Human Exome Kits – scalable, single-day, automation compatible workflow QIAseq xHYB Human Hybrid Capture Panels – curated exome content based on the HGMD® database to detect actionable variants and carrier status with the QIAseq workflow; custom panels available QIAseq xHYB CGP Panels – curated somatic content based on the HSMD database to detect actionable and interpretable variants, ensuring high coverage of critical regions across more than 720 genes QIAseq xHYB HRD Panels - combines genomic instability assessment with mutational analysis of key HRR genes QIAseq xHYB Long Read Panels - offers highly specific and sensitive hybrid capture-based target enrichment for long-read sequencing	
Targeted sequencing by single primer extension (SPE) amplicons	QIAseq Targeted DNA Pro Panels – fast, automation-friendly workflow to identify a variety of DNA variants from a wide range of sample types; custom panels available QIAseq Targeted cfDNA Ultra Panels – single-day, automation friendly workflow to detect ultralow variants down to 0.1% VAF with >99% specificity from liquid biopsy samples; custom panels available QIAseq Targeted Methyl Panels* – liquid biopsy- and FFPE tissue-compatible solution for targeting methylation status of DNA; custom panels available	

*QIAseq Targeted Methyl Panels can be analyzed with GeneGlobe® as well as the QIAGEN CLC Genomics Workbench.



Did you know?

Our **Enterprise Genomic Solutions,** supported by 20+ years of technical expertise, work closely with you to take your experiment from design to data interpretation based on your unique needs.

"The hands-on time of the QIAseq Targeted DNA Pro library prep is down to around 6 hours, which means that we can do a library prep within a day. This is very attractive for cancer research labs where the turnaround times are short."

Dr. Barnaby Clark, Laboratory Lead for Precision Medicine at Kings College Hospital NHS Foundation Trust



Catalog panels for targeted DNA sequencing

Benefit from unprecedented ease-of-use and biological insights with our wide range of catalog panels. Custom panel design is available.

QIAseq Targeted DNA Pro Panels*

Research panels that detect genes implicated in solid tumors and hematologic malignancies:

Comprehensive Cancer	Brain Cancer	Breast Cancer
Colorectal Cancer	Lung Cancer	Myeloid Neoplasms

Focus panels that detect genes and variants implicated in solid tumors and hematologic malignancies:

Comprehensive Cancer	Brain Cancer	Breast Cancer
Colorectal Cancer	Lung Cancer	Myeloid Neoplasms

Hereditary cancer research panels that detect genes implicated in solid tumors and hematologic malignancies:

Comprehensive Cancer	Breast & Ovarian Cancer	Colorectal Cancer
Pancreatic Cancer	Prostate Cancer	Hematologic Malignancies

QIAseq Targeted cfDNA Ultra Panels*

Breast Cancer	Colorectal Cancer	Myeloid Neoplasms
Lung Cancer	Actionable Solid Tumor	

QIAseq Targeted Methyl Panels*

Colorectal Cancer	Immuno-Oncology	T Cell Infiltration
Breast Cancer		

* Panels can be customized with GeneGlobe, our browser-based design and analysis hub. The QIAGEN Enterprise Genomic Solutions team also offers additional custom solutions.

RNA sequencing

Unravel the secrets of the transcriptome

Scan here for more info

Reveal your sample's transcriptome using our automation-friendly QIAseq RNA-seq kits, tailored for optimal library construction from challenging samples from a wide range of species. A few of our kits are highlighted below.

Application	Kit(s)	Analysis
rRNA and globin removal	QIAseq FastSelect® rRNA and Globin mRNA Removal* – standalone rRNA and/or globin mRNA removal for use with QIAseq RNA-seq kits and those from other suppliers QIAseq Stranded mRNA Enrichment Kit* - streamlines pre-library preparation by efficiently enriching poly(A)+ mRNA from total RNA, providing the ideal starting point for high-quality, strand-specific RNA-seq library construction	RNA-seq Analysis Portal
Whole transcriptome	QIAseq FastSelect RNA Library Kits* – simple and fast workflow for complete transcriptome or 3′ RNA-seq coverage in <5 hours; includes rRNA removal QIAseq Low Input RNA Library Kit* – sensitive, stranded RNA-seq library preparation from low-input RNA, supporting high-quality transcriptome profiling from limited (compatible with 1 - 1000 ng total input RNA) or challenging samples with automation-friendly workflows.	RNA-seq Analysis Portal
miRNA and small RNA sequencing	QIAseq miRNA Library Kit* – gel-free workflow with integrated UMIs for enhanced sensitivity; 768 UDIs available and compatible with wide range of sample types, such as biofluids including serum, plasma, CSF and urine	RNA-seq Analysis Portal
Targeted RNA sequencing	QIAseq RNA Fusion XP Panels – combined analysis of RNA fusion with SNV and gene expression; well-suited for novel-fusion and exon skipping detection; custom panels available QIAseq Targeted RNA-seq Panel for T-cell Receptor – immune repertoire screening using gene-specific primers to target specific RNA in human or mouse samples	GeneGlobe

* Complimentary access to RNA-seq Analysis Portal comes with kit purchase.

"The [FastSelect] workflow is very simple and fast. I would say that with poor-quality samples and with the limited quantity of those samples, I wasn't expecting the results we obtained."

Dr. Fabienne Desmots-Loyer, Hematology researcher,
CHU – Hospital Pontchaillou, Rennes, France





Our QIAseq Normalizer Kits are compatible with Illumina® platforms and the Element AVITI™ Cloud Break Freestyle workflow and enable library normalization in as little as 30 minutes.

Catalog panels for targeted RNA sequencing

Unravel the secrets of your sample's transcriptome with our high-performance catalog panels. Custom panel design is available.

QIAseq RNA Fusion XP Panels*

Pan Heme	Oncology Research	Immuno-Oncology	Lung Cancer
Leukemia	Solid Tumor	Lymphoma	Sarcoma

* Panels can be customized with GeneGlobe, our browser-based design and analysis hub. The QIAGEN Enterprise Genomic Solutions team also offers additional custom solutions.

"The robust chemistry of the QIAseq RNA Fusion XP Panels allows us to work with difficult biological materials, such as fragmented FFPE samples, even with very low inputs. Coupled with the ready-to-use analysis pipelines of the CLC Genomics Workbench software, we have a complete and adaptable tool for detecting actionable fusions and exon-skipping events. Plus, with the QIAseq Enrichment technology, we can customize our panels easily, giving us the flexibility to meet the needs of clinical teams."



Dr. Audrey Vallée, Molecular Biology Engineer,
CHU - Hospital Hôtel Dieu, Nantes, France

Multimodal sequencing

Unlock DNA and RNA biomarker insights from the same sample simultaneously

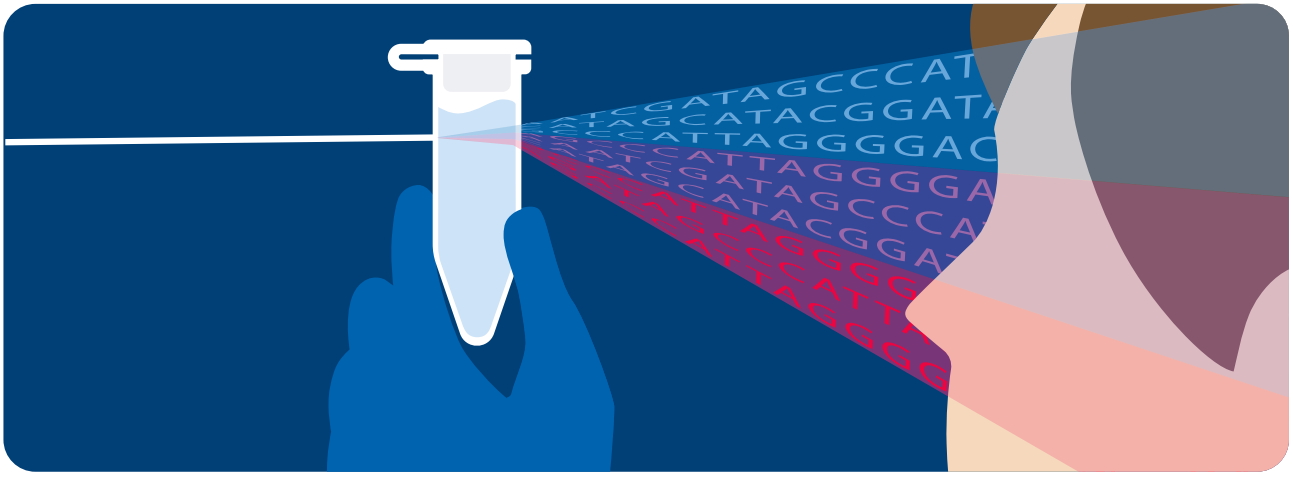
Scan here for more info

QIAseq Multimodal Panels consolidate targeted DNA and RNA enrichment into a single-day workflow, enabling simultaneous profiling of multiple biomarker types from the same sample. Starting with as little as 10 ng of total nucleic acid, the workflow helps conserve limited samples, reduce workflow complexity and shorten the path from sample to sequencing-ready libraries.

For research requiring broader genomic coverage, QIAseq hybrid-capture comprehensive genomic profiling solutions expand your view across cancer-relevant genomic content and multiple biomarker classes while taking advantage of a streamlined workflow.

Application	Kit(s)	Analysis
Library prep	QIAseq Multimodal DNA/RNA Library Kit - simultaneous WGS and WTS library preparation from a single sample (compatible with various types) with integrated UMIs for both DNA and RNA libraries for enhanced sensitivity	QIAGEN CLC Genomics Workbench
Target enrichment by SPE amplicons	QIAseq Multimodal Panels – enable targeted DNA and RNA profiling from as little as 10 ng of total nucleic acid in one integrated workflow using SPE enrichment technology Pan-cancer Leukemia Sarcoma Lung Cancer	
Target enrichment by hybrid capture	QIAseq xHYB CGP Panel – analyze DNA and RNA biomarkers from a single sample (FFPE and liquid biopsy) across 720+ genes, detecting SNVs, indels, CNVs, MSI, TMB and RNA fusions QIAseq xHYB HRD Panel – assess homologous recombination deficiency (HRD) status by interrogating BRCA1/BRCA2 status, HRR pathway genes and genomic instability signatures, LOH, TAI and with strong concordance with Myriad MyChoice® pipeline in comparative studies*	

* data on file



Microbial sequencing

Maximize success in microbial sequencing

Scan here for more info

From microbiome research, microbial identification to drug resistance gene detection and viral surveillance, QIAGEN offers dedicated NGS library preparation solutions designed for microbial research. Explore streamlined workflows that help you generate high-quality sequencing data and uncover the insights within bacterial and viral genomes.

Metagenomics	Microbial detection & genotyping	Metatranscriptomics
QIAseq FX DNA Libarary Kit	QIAseq xHYB Respiratory Panel	QIAseq FastSelect RNA Library Kits
QIAseq 16S/ITS Pro Screening Panels	QIAseq xHYB Viral STI Panel	QIAseq FastSelect -5S/16S/23S Kits
QIAseq Universal Metagenome Library Kit	QIAseq xHYB AMR Panel	QIAseq FastSelect Epidemiology Kits
	QIAseq xHYB Adventitious Agent Panel	QIAseq Low Input RNA Library Kit
	QIAseq xHYB MPXV Panel	
	QIAseq xHYB Mycobacterium Tuberculosis Panel	
	QIAseq xHYB HepC Panel	
	QIAseq xHYB HIV-1 Panel	
	QIAseq xHYB Custom Microbial Panel	

Whole genome and whole transcriptome amplification

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Amplify signals with high fidelity

Our REPLI-g® Kits, cited in over 6000 research studies, provide highly uniform, high yields of amplified DNA or transcripts from limited amounts of sample material for downstream applications, such as PCR, microarray and NGS.

GeneGlobe Design & Analysis Hub

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Empower your journey of discovery

Create custom panels, analyze NGS results and get advice for follow-up investigations or to streamline your research cycle with GeneGlobe, our browser-based design and analysis hub.



Access GeneGlobe tools:

- **GeneGlobe Knowledge:** Explore genes and pathways for molecular mechanisms of interest
- **RNA-seq Analysis Portal (RAP):** Complimentary analysis with most QIAseq RNA-seq kits, including differential gene expression and pathway analysis

Automate your library prep

Reduce hands-on time to <20 minutes

Scan here for more info

QIAGEN offers a broad portfolio of automation scripts for QIAseq library preparation, giving labs the flexibility to automate workflows across many commonly used liquid-handling platforms.

Available automation scripts include:

- QIAseq Targeted DNA and Methyl Panels
- QIAseq Multimodal Panels
- QIAseq RNA Fusion XP Panels
- QIAseq xHYB workflows
- Additional QIAseq library preparation workflows

Compatible automation platforms include:

- Agilent
- Beckman Coulter
- Eppendorf
- Hamilton
- Opentrons
- Revvity
- Tecan
- SPT Labtech

Unlock true compatibility

QIAseq universal NGS chemistry for any sequencer

As more sequencing instruments become available, you may feel the need to validate different NGS library preparation kits for these instruments. The QIAseq NGS library preparation chemistry is compatible with any automation-friendly workflow and a wide range of sequencers. Combined with our proven sample collection, nucleic acid extraction products upstream, and powerful bioinformatics analysis tools downstream, it's a true end-to-end solution for genomic researchers.



Sample stabilization and preparation

- PAXgene® tubes and kits
- QIAGEN® DNA and RNA sample purification kits

Library preparation

- QIAseq kits and panels

NGS ru

Compatible with sequencing instruments from:

- Illumina®
- Thermo Fisher Scientific®
- Complete Genomics™
- Element Biosciences®
- Singular Genomics®
- Ultima Genomics™
- PacBio®
- Oxford Nanopore Technologies®

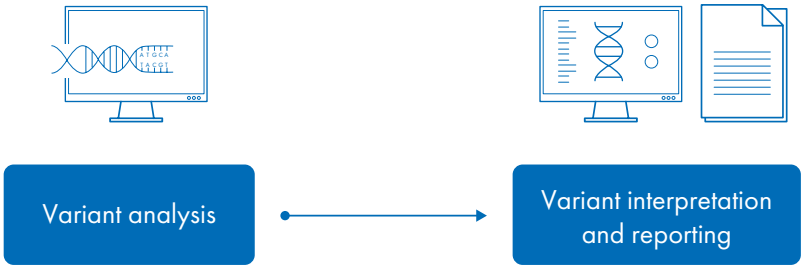
Data analysis and interpretation

- GeneGlobe® Design & Analysis Hub
- QIAGEN CLC Genomics Workbench
- QCI® Interpret
- Franklin by QIAGEN

Bioinformatics

Pair your panels with powerful bioinformatics solutions

Why stitch together disconnected tools when your NGS workflow can work as one? QIAGEN brings library preparation, secondary analysis and variant interpretation and reporting together in a streamlined Sample to Insight workflow for oncology and hereditary applications.



- QIAGEN CLC Genomics Workbench

- QCI Interpret for Oncology
- Franklin by QIAGEN for Hereditary

QIAGEN CLC Genomics Workbench

Turn sequencing data into analysis-ready results

CLC Genomics Workbench is a comprehensive NGS analysis platform that supports streamlined processing of sequencing data, from read mapping and quality control to variant detection and downstream analysis. Flexible workflows and intuitive visualization tools help make complex NGS analysis more accessible, reproducible and efficient.

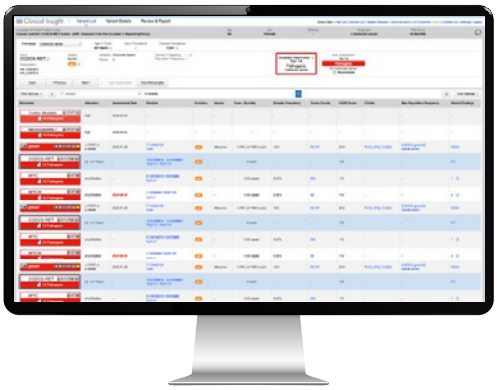
- Desktop, server and cloud solutions
- Pre-built, optimized QIAseq workflows
- Diverse NGS applications supported



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QCI Interpret for Oncology

Bring evidence-based clarity to cancer variant interpretation



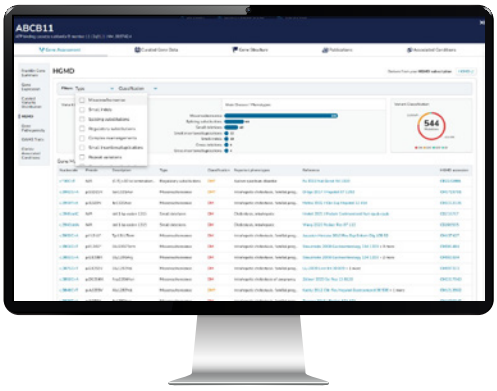
QCI Interpret for Oncology is a comprehensive platform that helps labs efficiently interpret, classify and report somatic variants from NGS testing. Combining expertly curated clinical knowledge and AI-assisted automation, the platform computes AMP/ASCO/CAP pathogenicity and actionability with full transparency across more than 31,000 cancer types. With access to over 800,000+ preformulated, oncologist-reviewed variant impact summaries, labs can quickly build custom reports with information on biologically and clinically significant biomarkers and relevant therapies.

Scan here for more info

- Optional interpretation service available
- CE-IVDR certification
- Over 5.5 million NGS tests interpreted

Franklin by QIAGEN

Scale hereditary test interpretation with AI-assisted insights



Franklin by QIAGEN is comprehensive platform that helps labs turn millions of variants into a concise list of clinically relevant findings. Combining AI-assisted variant prioritization, phenotype-driven analysis, automated ACMG classification and evidence from 100+ integrated databases, Franklin helps accelerate and standardize hereditary analysis. Integration with HGMD® Professional brings curated disease-causing variant evidence directly into the workflow, while a centralized, in-house knowledge base helps labs leverage real-world and public data for faster, more consistent variant classification.

Scan here for more info

- Intuitive, user-friendly interface
- WES, WGS, CMA and long-read sequencing
- Access to free Franklin Community

Discover our comprehensive NGS technologies: **www.qiagen.com/NGS**

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