

At Gene by Gene, we use cutting-edge technology to provide unparalleled genetic insights into your health

As a CAP accredited and CLIA certified lab, we are an elite clinical team delivering fast, accurate results. Recognized globally for our outstanding expertise in genetics due to the caliber of our clinical team and our advanced, precision robotic automation.

We have over 20 years of genetic and lab expertise to offer a full suite of solutions.

We are constantly evolving to optimise the services we provide our clients to meet their needs and provide a first-class experience.

When it comes to delivery, we provide:



High quality data



Fast turnaround times



Highly competitive pricing



End to end services

What We Offer

Gene by Gene isn't your average wet lab; we offer a turnkey solution starting with our logistics services and finishing with secure delivery of high quality data.



Third Party Logistics - Gene by Gene can provide kit materials and logistic services for direct-to-consumer or bulk shipping.



Laboratory Services - Research Use Only (RUO) or Clinical Validated Laboratory Services that include Next Generation Sequencing and Pharmacogenomics (PGx).



Clinical and Non-Clinical Reports - We offer end to end services from testing to reporting, including Pharmacogenomic, Nutrigenomic, and Clinical Exome reports.

Data Privacy Policy

At Gene by Gene, your privacy is our top priority.

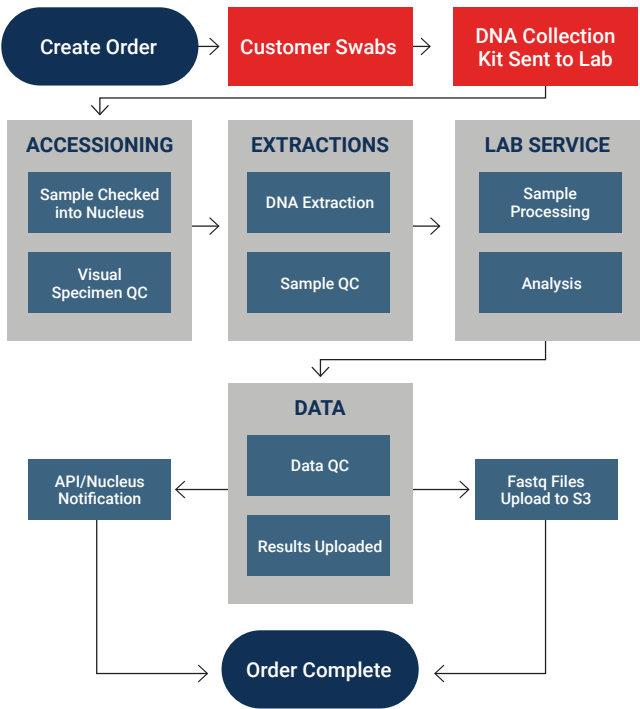
Your Data, Your Choice: We ensure you retain complete ownership of your DNA samples and all data generated from them. We never claim rights to this information.

Complete Transparency: We will never sell, share, or use your data or samples in any way that violates your privacy.

Purpose-Driven Analysis: We use your data only to perform the specific genetic tests you order. We don't share it with third parties without your explicit consent.

Data Anonymity: We take data security seriously. The data we collect is never sold and remains anonymous.

Life Cycle of a Sample



Nutrition and Wellness Reports

Our Nutrition and Wellness Reports are packed with personalized insights and actionable recommendations designed to support health and complement treatment plans.

We offer a Comprehensive Health Report, and targeted genetic panels focused on Longevity, Detoxification, and Methylation in PDF format.

Clinical Exome Reports

These signed clinical PDF reports are easy to understand and interpret. Doctors are presented with a clear summary of genetic findings related to disease risk. This allows doctors to provide preventative treatment and Care Management Plans specifically for each patient. Several specialized panels are available, including hereditary cancer, cardiovascular, or immunology.

Our Biobanking Service

Gene by Gene also offers a DNA biobanking service to its customers and currently stores over 5 million samples.

Our Clinical Team

Our expert team — including clinical geneticists, pharmacologists, molecular geneticists, and pharmacists — ensures that every test is handled with the highest standards of safety, compliance, and clinical accuracy. With deep medical and clinical domain knowledge, we deliver trusted results you and your patients can rely on.

Testing & Reporting Services

Clinical Pharmacogenomics Reports (PGx)

The myDNA Pharmacogenomic report is especially valuable for clinicians managing patients who experience adverse reactions or poor responses to certain medications.

Our pharmacogenomics panel is regularly reviewed and refined by our expert clinical team to reflect the latest scientific and clinical evidence available.

A signed clinical PDF or HL7 data is available.

Lab Services

Next Generation Sequencing

NEXT GENERATION SEQUENCING (NGS) TECHNOLOGY		
Whole Exome Sequencing (WES)	Whole Genome Sequencing (WGS)	Blended LPG + WES
DATA IS AVAILABLE IN .FASTQ AND .VCF FILE FORMATS		

Whole Exome Sequencing (WES)

Whole Exome Sequencing (WES) focuses on the most critical parts of the genome: the exons, or the protein-coding regions. While these regions make up less than 2% of the entire genome, they contain approximately 85% of all known disease-causing mutations. By targeting the exonic regions, WES provides a powerful and cost-effective way to gain detailed insights into health and genetic predispositions.

Gene by Gene utilizes Twist Bioscience Clinical Exome 2.0 library preparation kit and typically deliver coverage depths of 80–100x.

Whole Genome Sequencing (WGS)

Whole Genome Sequencing (WGS) delivers unparalleled insights into health, traits, and ancestry. From understanding genetic predispositions to specific health conditions to discovering how the body responds to diet and exercise, WGS supports the power of knowledge.

We utilize Twist Bioscience Library Preparation Enzymatic Fragmentation Kit 2.0 for library preparation. Our average coverage is 30x, however custom coverages are available.

Low Pass Genome Sequencing (LPWGS)

Low Pass Genome Sequencing offers a powerful and more affordable alternative to whole genome sequencing. This approach is perfect for projects where cost is a key consideration. We can still identify a wide range of genetic variants and provide data you can use for your own research. Plus, with our optional imputation services, we can fill in the gaps to create a more comprehensive genetic picture when needed. The standard coverages are 0.5x, 1x, 3x, and 4x.

Blended 3x Low Pass Genome & 40x Whole Exome Sequencing

The Blended WES and LPWG Sequencing product combines the best of both worlds. We analyze the entire genome at a lower coverage while simultaneously providing a deep, high-coverage look at the most clinically relevant, protein-coding regions. It's the ideal, unbiased solution for robust genetic discoveries and efficient, budget-friendly testing.

Third Party Logistic Services

Gene by Gene's Collection Kit utilizes a Puritan swab and tube containing a proprietary, ultra-stable buffer that preserves your sample at room temperature. No special shipping or storage conditions are required, simplifying sample collection and transport. We offer Standard and Deluxe packaging direct-to-consumers or in bulk utilizing DHL or FedEx.

Nucleus API

Ordering and tracking sample statuses is seamless with our API, Nucleus, which supports direct system integration or access via our user-friendly Client Portal. All data is handled with the highest security standards, ensuring your information remains safe and protected throughout the process.

ACCREDITATION



CLIA (45D1102202)



COLA (34242)



CAP (7212851)



AABB (160062)

CLINICAL LABORATORY PERMITS



NYSDoH (8512)



PADoH (34468)



MDH (2305)

CLINICAL LABORATORY LICENSES



CA (COS00800486)



RIDoH (LC000929)

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