



# Custom Molecular Biology Testing Solutions

Specialised at developing solutions to novel and  
challenging molecular biology problems



## Introduction

LGC offers high-quality custom molecular biology testing services to both new and existing customers, specialising in developing innovative solutions to novel problems, according to your individual requirements. The team at LGC Fordham, led by internationally recognised molecular biology expert Dr Edward Ryder, is focussed on the delivery of both R&D collaborations and routine service operations, using novel approaches for problems that are difficult to address elsewhere.

## Unique and customised testing solutions, directed by your individual requirements

LGC Fordham's molecular biology laboratory is an ISO 17025 accredited facility, offering bespoke solutions to novel problems using the latest industry-approved techniques:

- Polymerase chain reaction (PCR);
- Real-time quantitative PCR (qPCR);
- Digital PCR (dPCR);
- Long-read sequencing;
- Next Generation Sequencing (NGS);
- Automated DNA/RNA extraction capability.

The laboratory was initially established within the anti-doping sector to deliver gene doping testing services to national and international sports regulatory bodies, resulting in numerous publications in Nature series journals and other high-impact publications. In recognition of the analytical and informatic capabilities of the laboratory and the unique problem-solving expertise of the team, our services have expanded to provide customised support for a range of bespoke applications including research, gene editing model characterisation, human and animal diagnostics, and genotyping. Whether you are looking for routine testing services, quality control support, assay verification or custom assay development, we would welcome the opportunity to discuss your individual requirements.

LGC can also offer a range of bespoke sample collection kits, logistics networks and sample storage options, where required.

## Why LGC?

We are a global leader in life science tools, partnering with customers to find solutions that diagnose, treat, feed and protect our growing population. Working collaboratively with our partners in the scientific community, our products and services help to solve some of the most complex challenges facing society. LGC, headquartered in

the UK, boasts a heritage of over 180 years. The Fordham laboratory has been operational since 1963 and is internationally recognised for its expertise in sports drug surveillance and analytical chemistry. Today, with a team of more than 100 highly skilled scientists, this laboratory leads the field in equine sports testing, custom molecular biology solutions, human drug testing and nutritional supplement testing. We employ industry-leading experts who are driving innovation and compliance across all areas. Our work is pivotal in ensuring that integrity, fairness and safety is maintained.

**We are proud to combine our scientific expertise with our passion for truly delivering 'Science for a Safer World'.**

LGC can support both  
**bespoke assay development**  
and routine testing  
requirements.

## Get in touch

To discuss your bespoke requirements, please contact LGC (Fordham):

**Telephone:** +44 1638 720500 (Option 1)

**Email:** [Fordham.MolecularBiology@LGCGroup.com](mailto:Fordham.MolecularBiology@LGCGroup.com)

