



Oxford
Nanopore
Technologies

Q Line

Oxford Nanopore sequencing designed for
use in regulated and applied environments



What is Q-Line?

The Q-Line range has been specifically developed to support labs that require routine sequencing in a tightly controlled set-up, helping maintain good manufacturing process (GMP) compliance and end-user alignment with 21 CFR Part 11 and EU GMP Annex 11.

Q-Line delivers all the benefits of multidimensional Oxford Nanopore sequencing together with long-term configuration maintenance, empowering labs to choose when to update their workflows.

- **Compliant and secure**

Human-readable audit trails, user authentication, data encryption, and laboratory information management system (LIMS) integration

- **Reproducible and qualified**

Built under the Oxford Nanopore quality manufacturing system with change control and three-year version support

- **Reliable and supported**

Transparent product lifecycles with optional upgrade pathways

- **Modular and scalable**

A single platform consolidating multiomic answers into one streamlined data-rich workflow

- **Rapid and real time**

On-demand sequencing delivering insights in hours

Enhance your routine workflows

Develop your own application workflows

Q-Line provides a reliable sequencing solution with a range of consumables that enable rapid, scalable analysis of any length of DNA or RNA — from short to ultra long — to generate ultra-rich, real-time data.

Example biopharma applications	Example clinical research applications
mRNA quality control (assess identity, integrity, and purity in one test)	Microbial whole-genome sequencing
Plasmid quality control	Microbial metagenomics
Sterility testing	Full-length 16S sequencing
Insertion site analysis	Targeted human gene panels

Run pre-configured workflows

Q-Line also supports pre-configured workflows using dedicated test packs, which include application-specific analysis pipelines. Contact your local sales representative to learn more.

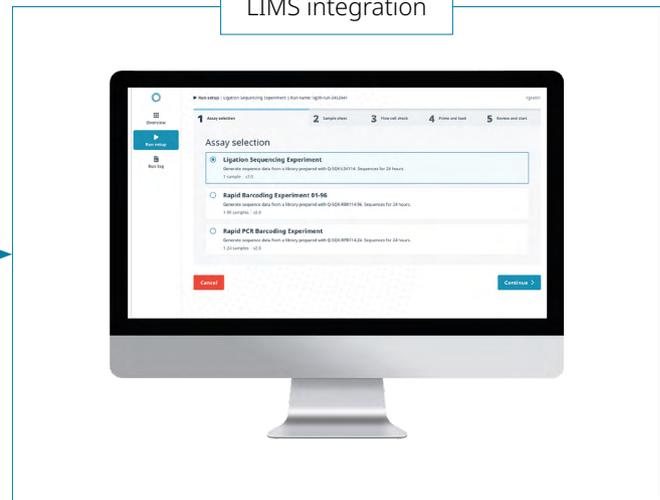


The Q-Line solution

A complete solution, delivering streamlined library prep, on-demand sequencing, and real-time analysis with Q-Line software.



LIMS integration



Prepare

- Streamlined library prep
- Sample multiplexing for cost-efficient results
- PCR-free workflows to eliminate bias
- PCR-based options for low inputs

View all Q-Line sample prep kits at nanoporetech.com/q-line

Configure

- Intuitive Q-Line user interface streamlines sequencing set-up
- LIMS integration for seamless data transfer
- Pre-configured assays for rapid set-up and analysis
- Design and lock custom assays for routine sequencing



GridION Q

Instrument Qualification Status

Run Quality

Base Sequenced: 0.3 Gb | Model Accuracy: 99.82%, Ok: 14.96

Sample Details - Controls

Alias	Barcode	Input file found	Read Count	Mean Coverage
NTC3	barcode05	Pass	172	0.0
NTC2	barcode04	Pass	133	0.0
NTC1	barcode03	Pass	307	0.0
NTC4	barcode08	Pass	140	0.0

Sample Details - Test Samples

Alias	Barcode	Input file found	Read Count	Mean coverage
Sample3	barcode05	Pass	2957	562.74
Sample1	barcode01	Pass	8478	1621.74
Sample4	barcode07	Pass	9603	1713.59
Sample2	barcode02	Pass	12605	2294.76

Sequence

- Q-Line GridION™ device running five independent Q-Line MinION™ Flow Cells
- On-demand sequencing without sample batching
- Direct sequencing of native DNA/RNA
- Integrated compute for local analysis
- Features that support end-user alignment with 21 CFR Part 11 and EU GMP Annex 11 configuration

Analyse

- Real-time data streaming for immediate access to results
- Scheduled reporting provides curated insights at defined timepoints
- On-device barcode balancing to meet your coverage goals
- Standard FASTQ and BAM output formats for further downstream analysis
- Flexible sequencing run time and reusable flow cells

Reliable and secure operation

Q-Line delivers reliable, long-term support for released configurations that are compatible with computer system validation (CSV) processes and includes features that support end-user alignment with 21 CFR Part 11 and EU GMP Annex 11 to ensure data integrity.

Key features

- Simple graphical interface with minimal user interaction
- Custom assay development and lockdown for routine use
- Closed system with human-readable audit trails
- Whole-device encryption at rest
- Permission-based access with authentication system integration
- Defined installation and operational qualification (IQ/OQ) package
- Bidirectional LIMS compatibility for sample sheet import and data offload

ISO 9001:2015 certification

The manufacturing process for all Q-Line devices and consumables has been certified to the ISO 9001:2015 standard. The process includes verification of basecalling standard nucleotides, sample demultiplexing, and output of BAM and FASTQ files.

The calling of non-standard nucleotides (e.g. methylated bases), reference alignment, and the use of downstream analysis tools are enabled. Contact your local sales representative for more information.



Rapid access to comprehensive support

Purchase of the Q-Line GridION includes one year of the Standard Plan, providing comprehensive and rapid support to enable confident integration into routine workflows.

Upgrade to the Enhanced Plan for 24-hour support, five days a week, along with priority response and comprehensive training for added reassurance. Pricing available on request.

	Standard Plan	Enhanced Plan
Online installation onboarding	✓	✓
Training		Two-day on-site training
Email / chat support	Mon-Fri, 9:00-17:00 (local)	Mon-Fri, 24 hours* (prioritised)
Phone support		✓
On-site repairs and replacement	✓	✓
Sequencer loan during prolonged downtime		✓
Preventative maintenance visit		✓
Documentation support		✓
Service-level agreement response time*		✓

*Visit nanoporetech.com/support-plans for full details of Enhanced Plan support hours and service-level response time. All information correct at time of publication. May be subject to change.

Learn more about Q-Line on the Store
nanoporetech.com/q-line-store





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