

Available as Service 

Connecting all dots with QuantSeq 3' mRNA-Seq

Pioneering Gene Expression Profiling with QuantSeq

The trusted all-round solution for straightforward mRNA sequencing

The patented QuantSeq technology targets the 3' ends of mRNA molecules for focused analysis of differential gene expression by RNA sequencing (RNA-Seq). As the **pioneer of 3' mRNA sequencing**, Lexogen has revolutionized the accessibility and usability of quantitative gene expression analysis. **QuantSeq is the preferred method for expression profiling** and widely trusted for its role in numerous groundbreaking discoveries made possible by 3' mRNA-Seq.



Simple & Fast Workflow

QuantSeq omits any pre-processing steps and generates sequencing-ready libraries from total RNA in <4.5 hours for mRNA-focused readout.



Unparalleled Scalability

QuantSeq enables **efficient, scalable high-throughput sequencing** with reduced read depth and increased multiplexing (up to 36,864 unique samples).



Robust performance on any sample input

QuantSeq is optimally suited for **low-quality and low input RNA** samples and the ideal choice for challenging material, including FFPE, blood, or plant samples.



One technology, numerous applications

The QuantSeq technology is **versatile and applicable for advanced approaches**, like high-throughput screening, targeted sequencing, and RNA kinetics studies.

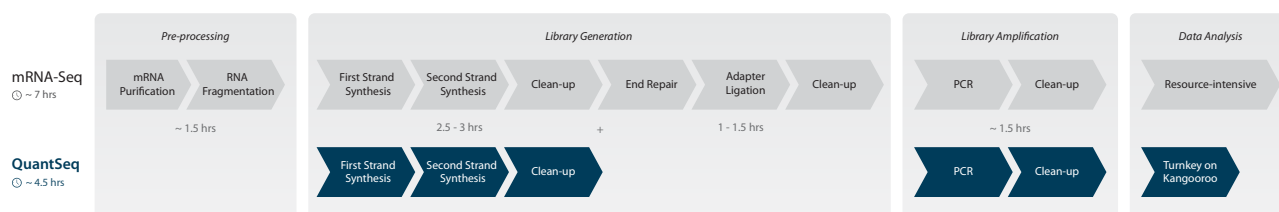


Figure 1 | QuantSeq generates sequencing-ready libraries from total RNA in <4.5 hours without the need for any pre-processing steps.

Simple & Fast Workflow

QuantSeq is a **rapid and efficient RNA-Seq library preparation method** that generates libraries directly from (polyadenylated) total RNA in less than 4.5 hours, without pre-processing steps (Fig. 1). QuantSeq is **automation-compatible and ready-to-use for seamless sequencing on various platforms**, including Illumina, Element Biosciences & others.

Unparalleled Scalability

By capturing 3' ends of coding mRNAs, QuantSeq facilitates large-scale gene expression profiling by **enabling massive multiplexing, maximized sample throughput, and cost-effective shallow sequencing of cell-based screenings**. In contrast to mRNA-Seq, QuantSeq generates only one fragment per transcript at the 3' end resulting in less data to be processed and analyzed (Fig 2.).

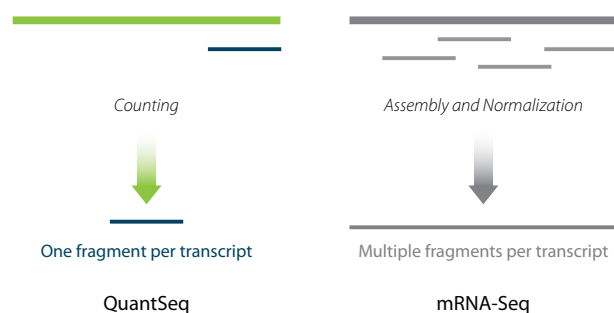


Figure 2 | QuantSeq enables simplified gene counting at the 3' end of coding RNA compared to full-length mRNA-Seq covering the entire transcript.

Robust performance on any sample input

QuantSeq is a powerful technology for gene expression profiling generating robust and highly reproducible data from any RNA input amount, quality, or sample type. **QuantSeq is ideal for low RNA input (<10 ng total RNA) and even (heavily) degraded RNA (RIN <5)**, and is also considered a **reliable and robust all-around solution for challenging samples**, such as FFPE samples, plant tissue, or whole blood (Fig. 3).

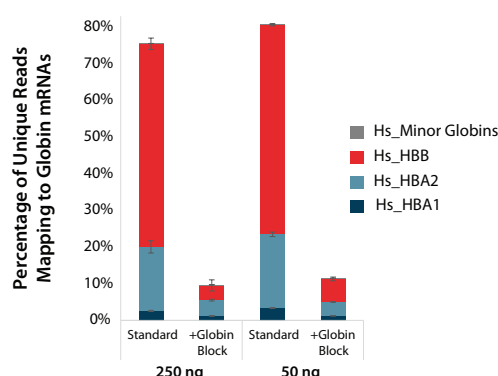


Figure 3 | Reads mapping to human globin mRNAs for QuantSeq libraries generated from 250 ng and 50 ng RNA input with and without Globin Block.

One technology, numerous applications

QuantSeq unlocks the full potential of differential gene expression analysis by offering **one universal technology to a wide range of objectives, easing operation and throughput** (Fig. 4).

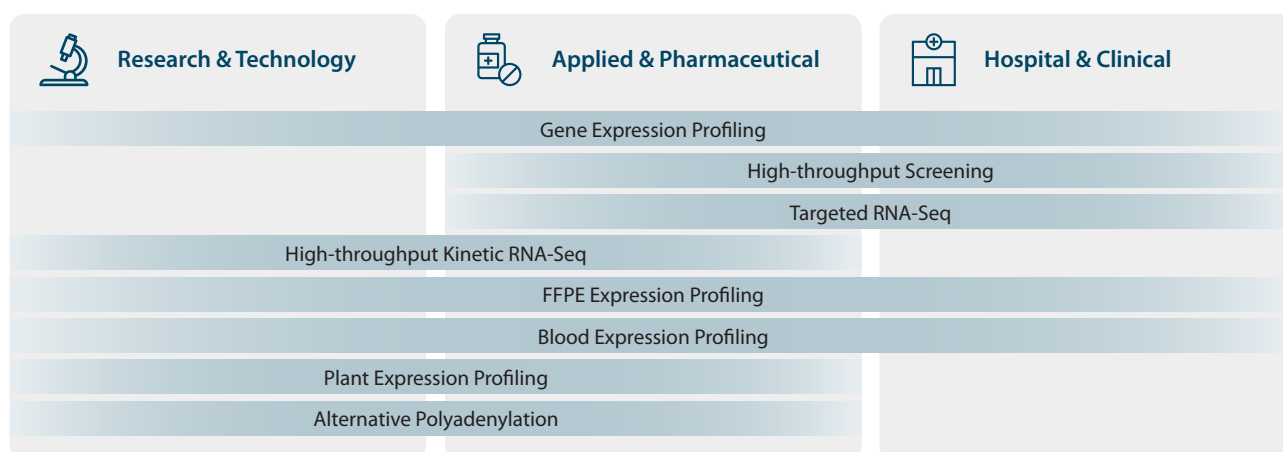


Figure 4 | QuantSeq technology is compatible with various RNA-Seq applications and sample types relevant to different fields.

Ordering Information

Cat. Nº	Product Name
139	QuantSeq-Pool Sample-Barcoded 3' mRNA-Seq Library Prep Kit for High-throughput RNA-Seq
191-196	QuantSeq 3' mRNA-Seq V2 Library Prep Kit FWD for Gene Expression Profiling
222-223	QuantSeq FFPE 3' mRNA-Seq Library Prep Kit for FFPE Expression Profiling
225	QuantSeq 3' mRNA-Seq V2 Library Prep Kit (REV) for Alternative Polyadenylation Studies
227-230	SLAMseq Kinetic Kits with QuantSeq for High-throughput Kinetic RNA-Seq

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