LEXOGEN
The RNA Experts

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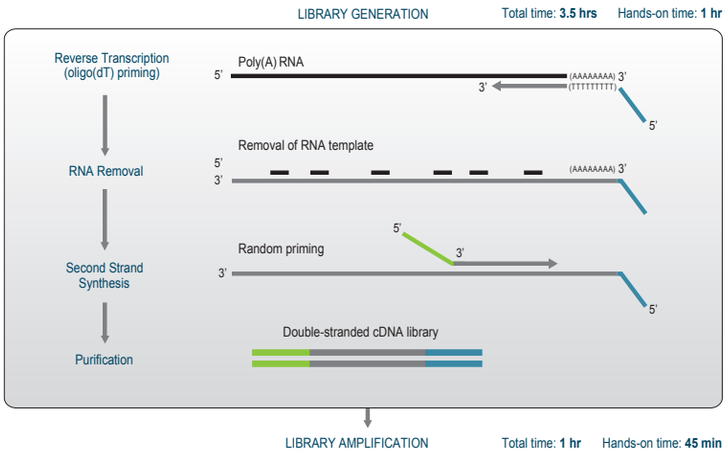
Twin Power:

CORALL and QuantSeq

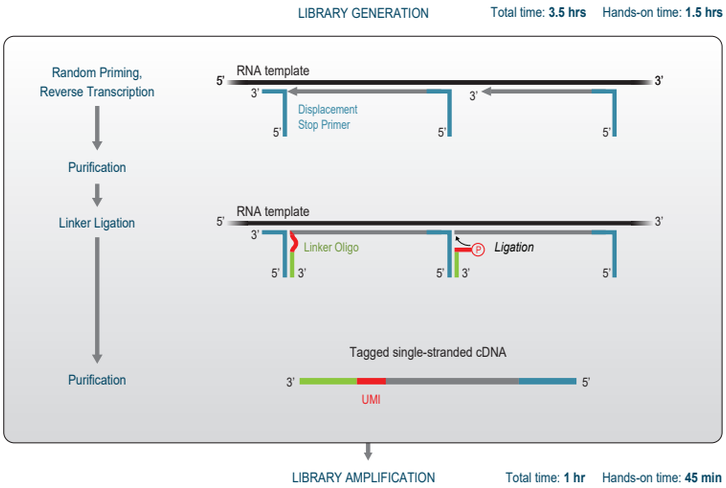
A mighty team to empower your RNA-Seq experiments

From 3' mRNA-Seq to whole transcriptome? At Lexogen, you can have it all!



QuantSeq technology focuses on the 3' ends of all polyadenylated transcripts in your sample. Starting from total RNA, an oligo(dT) initiates reverse transcription (first strand synthesis) and random priming (second strand synthesis) completes cDNA library generation.

Figure 1 | QuantSeq workflow, library generation



CORALL technology covers the whole length of the RNA molecule and uses our patented displacement-stop oligos to generate fragments all along the gene. Paired with RiboCop for rRNA depletion, CORALL allows to study non-coding RNA (e.g., lncRNA); when combined with our poly(A) selection kit, CORALL will help you decipher the full mRNA transcript.

Figure 2 | CORALL workflow, library generation

Whichever RNA-Seq experiment you are planning, you will find the optimal solution with Lexogen's acclaimed QuantSeq and CORALL kits.

They both offer shared benefits:

Any sample, any input

FFPE or blood samples, down to 1 ng. Our robust kits welcome any challenge.

Fast and simple protocol - only 4.5 hours in total

Only a few steps and half a day, that is all you need to prepare your RNA-Seq libraries.

Perfect read assignment

Our patented 12 nt UDI make sure that every read is correctly allocated to its original sample.

When do I need QuantSeq?

Ideal setup for QuantSeq

- Differential gene expression (save on reads with the 3' mRNA approach!)
- Identification of poly(A) sites (**QuantSeq REV**)
- RNA kinetics (in combination with **SLAM-Seq**)
- Targeted sequencing with customized panels (**QuantSeq Flex** modules)

When do I need CORALL?

Ideal setup for CORALL

- Differential gene expression on full gene length
- Analysis of transcripts, including long non-coding RNA
- Detection of isoforms, transcript variants, fusion transcripts, alternative splicing events, etc...
- Also excels with bacterial samples and non-model organisms

You can run both QuantSeq and CORALL on the same flow cell: your reads will be safe thanks to Lexogen's 12 nt UDI

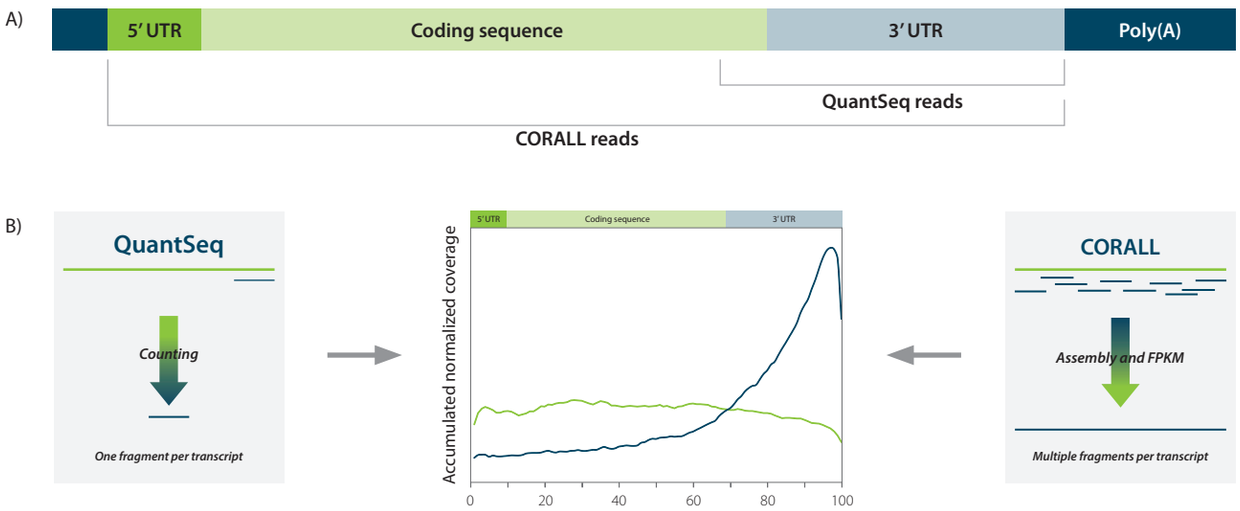


Figure 3 | A) Gene coverage: QuantSeq mainly targets the 3' UTR region; CORALL covers the whole gene, from 5' UTR to 3' UTR end. B) QuantSeq (left) and CORALL (right) libraries are pooled onto the same sequencing run, each with different UDI. Gene percentile coverage (x axis) and accumulated normalized coverage (y axis) are shown. Blue line: QuantSeqlibrary; light green line: CORALL library.

Do you have questions about library pooling? Please reach support@lexogen.com

Ordering information

Cat. №	Product Name
191 and 192	QuantSeq 3' mRNA-Seq V2 Library Prep Kit FWD with UDI 12 nt Set **A1** (191) and Set **B1** (192)
171 and 175	CORALL RNA-Seq V2 Library Prep Kit with UDI 12 nt Set **A1** (171) and Set **B1** (175)
177 and 181	same as 171 and 175, with added **poly(A) selection** - Set **A1** (177) and Set **B1** (181)
183 and 184	same as 171 and 175, with added **RiboCop rRNA depletion** - Set **A1** (183) and Set **B1** (184)
185 and 186	same as 171 and 175, with added **RiboCop rRNA + Globin depletion** - Set **A1** (185) and Set **B1** (186)

For more information and additional resources, please visit our website.