

How low can you go?

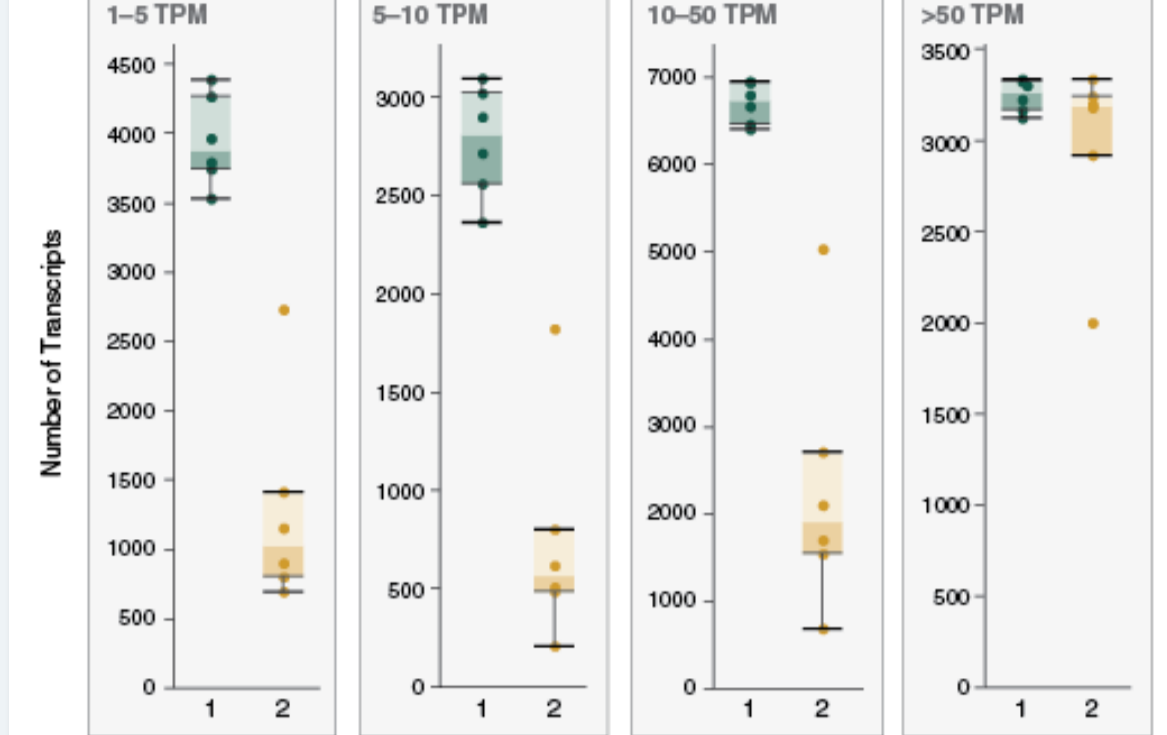
Introducing:

NEBNext® Single Cell/Low Input RNA Library Prep Kit for Illumina®

With this unique streamlined method, high-quality, full-length transcript sequencing libraries are made directly from single cells, or from as little as 2 pg – 200 ng of total RNA.

- **Detect more transcripts**, including low-abundance transcripts
- **Obtain full length, uniform transcript coverage**, regardless of input amount or sample type
- **Save time** with a fast, streamlined workflow, minimal handling steps and hands-on time

Superior transcript detection with the NEBNext Single Cell/Low Input RNA Library Prep Kit



Sequencing libraries were generated from Jurkat single cells (6 replicates) using the NEBNext Single Cell/Low Input RNA Library Prep Kit, or the SMART-Seq® v4 Ultra Low Input RNA Kit for Sequencing plus the Nextera® XT DNA Library Prep Kit. Libraries were sequenced on an Illumina® NextSeq 500. Each dot represents the number of transcripts identified at the given Transcripts per Kilobase Million (TPM) range, and each box represents the median, first and third quartiles per replicate and method. Salmon 0.6 was used for read mapping and quantification of all GENCODE v25 transcripts. Increased identification of low abundance transcripts is observed with the NEBNext libraries.

[Download Technical Note for Performance Data](#)

See Product Details & learn more

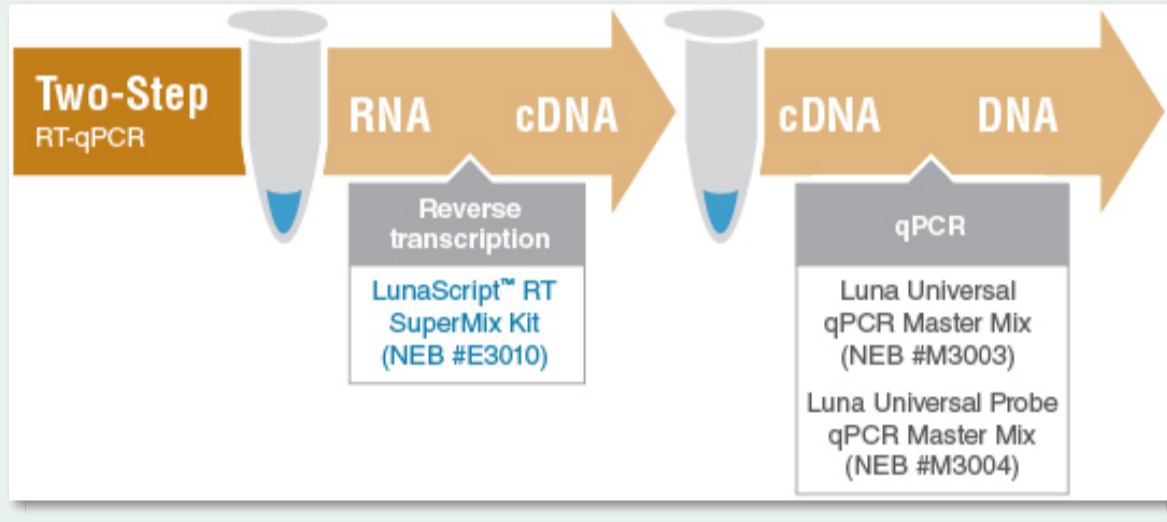
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Lighting the way.

Illuminate your Two-Step RT-qPCR:

Get the new LunaScript™ RT SuperMix Kit!

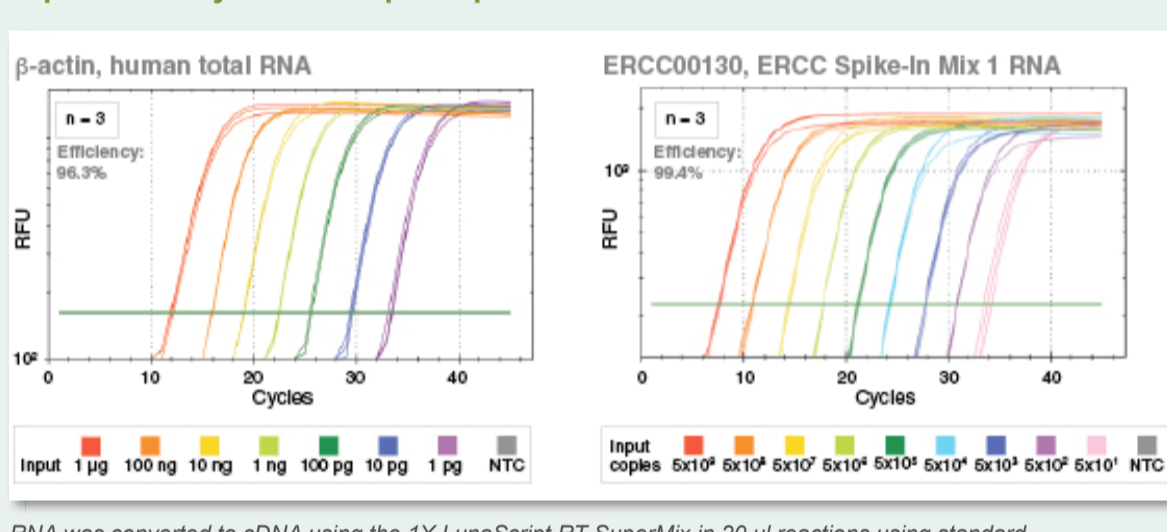
The latest addition to the Luna® qPCR/RT-qPCR portfolio, the LunaScript™ RT SuperMix Kit is optimized for first strand cDNA synthesis in the context of a two-step RT-qPCR workflow. It delivers best-in-class performance, user-friendly protocols, and includes a convenient blue dye to track your sample.



The cDNA products generated by LunaScript have been extensively evaluated in qPCR using the Luna qPCR Master Mixes. In combination, these products provide a two-step RT-qPCR workflow with excellent sensitivity and accurate, linear quantitation.

- **Simplify reaction setup** with convenient supermix format
- **Eliminate pipetting errors** with non-interfering, visible tracking dye
- Synthesize cDNA in **less than 15 minutes**
- Experience **best-in-class performance**, as all Luna products have undergone rigorous testing to optimize specificity, sensitivity, accuracy and reproducibility
- Enjoy consistent linearity, sensitivity, and capacity for **reliable RNA quantification**

The LunaScript RT SuperMix Kit offers exceptional sensitivity, linearity, and reproducibility in two-step RT-qPCR workflows



RNA was converted to cDNA using the 1X LunaScript RT SuperMix in 20 µl reactions using standard reaction conditions (25°C/2 min, 55°C/10 min, 95°C/1 min). cDNA was then quantitated by qPCR using the Luna Universal qPCR Master Mix (NEB #M3003) and 1 µl of cDNA product as template, with triplicate reactions at each input concentration. A. A serial dilution of Jurkat total RNA (1 µg – 1 pg) was converted to cDNA and then quantitated by qPCR using a β-actin target. B. ERCC (External RNA Controls Consortium) mix1 RNA containing 5x10⁹ to 50 copies of ERCC00130 (~10 ng – 10 fg) was converted to cDNA and then quantitated by qPCR.

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Spread your wings.

New product for RNA purification:

Monarch® Total RNA Miniprep Kit

The Monarch Total RNA Miniprep Kit is a comprehensive solution for the extraction and purification of total RNA from a wide variety of biological samples, including cultured cells, blood, and tissues.

- **Purify RNA of all sizes**, including miRNA & small RNAs >20 nucleotides
- **Efficiently remove DNA** using the provided DNase I and gDNA removal columns
- Process blood and tissue with the included **Proteinase K and stabilization reagent**
- Protocols also available for **RNA fractionation and cleanup**
- **Save money** with this all-in-one kit
- **Elution volume:** 30 µl - 100 µl



Monarch-purified RNA is high-quality and compatible with a wide variety of downstream applications

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Interested in CRISPR/Cas Techniques? Watch our „on demand“ Genome Editing 101 webinar

Hear the expert Dr. Ezra Schildkraut introducing CRISPR/Cas and related modern Genome Editing techniques in this 1h webinar.

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