

# You heard the message.



## Everything You Need for Your RNA-Related Workflows

We've told you before that we offer a broad portfolio of reagents for purification, quantitation, detection, synthesis and manipulation of RNA. But did you know that these products are available from bench-scale to commercial-scale to enable both academic and industrial needs? Further, we provide these products at quality levels that support vaccine and diagnostic manufacturing. Experience improved performance and increased yields, enabled by our expertise in enzymology.



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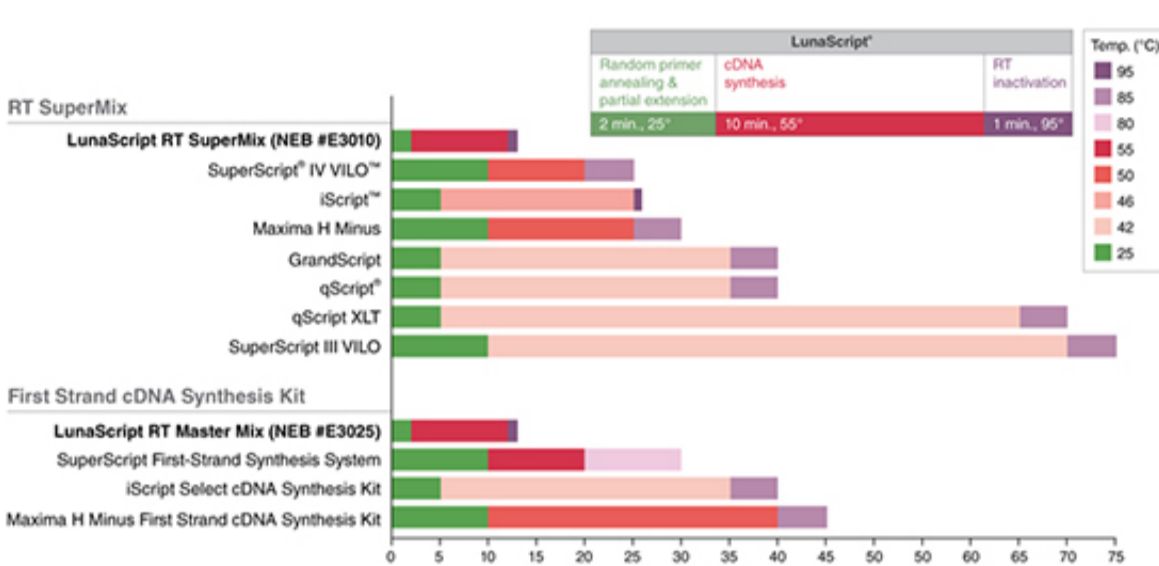
### New product:

## LunaScript® RT Master Mix Kit (Primer-free)

- Optimized 5X master mix contains Luna® Reverse Transcriptase, dNTPs, and Murine RNase Inhibitor
- Use with your own primers for optimal cDNA synthesis
- Use for first strand cDNA synthesis, two-step RT-qPCR, two-step RT-PCR, and RNA-seq workflows
- Eliminate pipetting errors with non-interfering, visible tracking dye
- Includes No-RT control mix for increased confidence



At just 13 minutes, LunaScript offers the shortest available first-strand cDNA synthesis protocol



Comparison of recommended protocols for cDNA synthesis. Both the LunaScript RT SuperMix Kit and LunaScript RT Master Mix Kit require the shortest reaction time and tolerate elevated temperatures, reducing complications from RNA secondary structure.

[Learn more!](#)

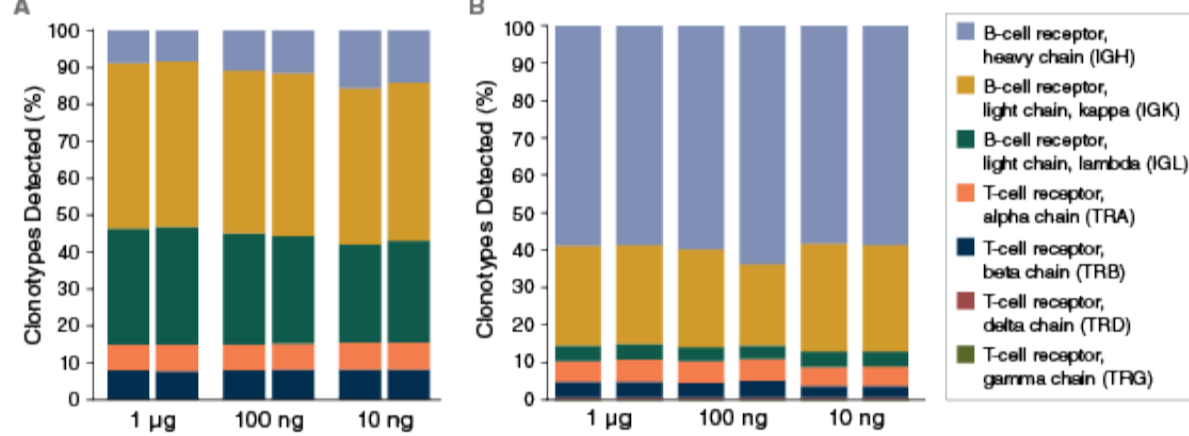
### New products:

## NEBNext® Immune Sequencing Kits

With the NEBNext Immune Sequencing Kits (available for mouse and human), sequence the full-length immune gene repertoires of B cells and T cells. Profile somatic mutations across all relevant contexts (e.g., V, D, and J segments and isotypes IgM, IgD, IgG, IgA, and IgE) with improved sequence accuracy. Characterize BCR light, BCR heavy, TCR $\alpha$ , TCR $\beta$ , TCR $\gamma$  and TCR $\delta$  chains. This kit includes UMIs for source-molecule identification. Additionally, analyze data using a [bioinformatic workflow based on the open-source pRESTO toolkit \(tutorial\)](#)



Generate full-length immune gene repertoires of B and T cells from human or mouse cells



BCR+TCR libraries were constructed with replicates for each input; (A) 1  $\mu$ g, 100 ng and 10 ng of Human PBMC Total RNA (Takara Bio #636592); (B) 1  $\mu$ g, 100 ng and 10 ng of Mouse Spleen Total RNA (Takara Bio #636605). Following downsampling, pRESTO tools were used for quality filtering of reads, sequencing assembly, and generation of consensus sequences based on UMIs. Clonotype percentages in each library are shown.

[Learn more!](#)

## \*\*\*Late Breaking News\*\*\*Late Breaking News\*\*\*

The NEBNext Immune Sequencing Kit has been used in the paper of JS Turner et. al. "SARS-CoV-2 mRNA vaccines induce persistent human germinal centre responses".



[Go to paper!](#)

## The 2021-22 NEB® Catalog & Technical Reference is now available!



Browse through to find the latest NEB products, including recommendations for which product will work best for your application.

- Extensive information on maximizing product
- Technical tips
- Troubleshooting guides
- And much more!

Each edition of the catalog contains a collection of mini-reviews that addresses various scientific, environmental and/or humanitarian topics. This year, we are dedicating the catalog to our Founder, [Donald G. Comb](#), and are sharing some of the values that he was passionate about.

[Request a free Catalog at your local Distributor](#)

[Tips for using your NEB AR App](#)

## We want you help us create the 2022 NEB calendar!

We are looking for nature-themed artwork, for inclusion in our 5th annual New England Biolabs calendar. To submit your artwork for consideration, please supply a high-resolution image and your contact information using the form below. All submissions are due by August 31st.\*



If your work is selected for inclusion in the calendar, you will, of course, be credited in the calendar and celebrated online and on social media. You will also receive the following:

- 500€ in NEB product credit or 500€ to donate to the charity of your choice
- 10 copies of the calendar featuring your work to hand out to your nearest and dearest
- A personal reminder of the beauty of reflection

[Submit a Photo](#)

New England Biolabs is a **Certified B Corporation™**.

be **INSPIRED** | drive **DISCOVERY** | stay **GENUINE**

