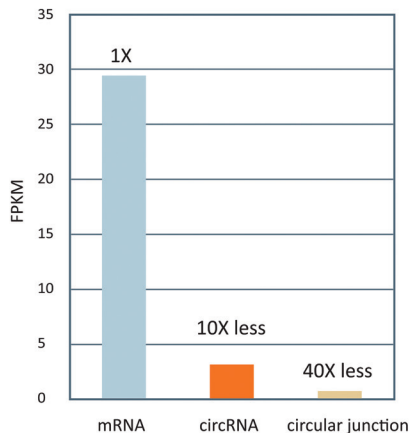


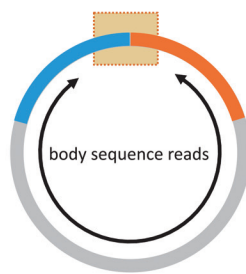
Dedicated to Non-coding RNAs Since 2009



Challenges of CircRNA Profiling



circular junction reads



Circular RNAs are expressed at $\sim 1/10$ the mRNA level. Circular junction reads (yellow box) accounting for only a fraction of the circular RNAs are even less, at $\sim 1/40$ of mRNA level.

Example: hsa_circ_0054254

circRNA study	Sample	circular junction reads
Rybak2015	frontal_cortex	3
	parietal_lobe	7
	diencephalon	2
Salzman2013	K562	3
	Gm12878	13
	Sknshra	1
	H1hesc	3
	Helas3	2
	Huvec	0
	A549	3
	Ag04450	1

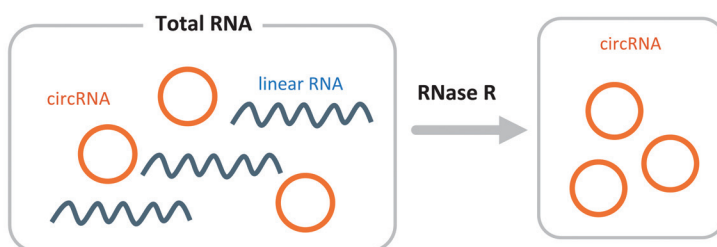
Only a few circular junction counts could be observed in deep sequencing, far below the limit of quantification [Szabo and Salzman (2016) Nat. Rev. Genet. PMID: 27739534].

Arraystar circRNA Arrays Power 500+ Publications

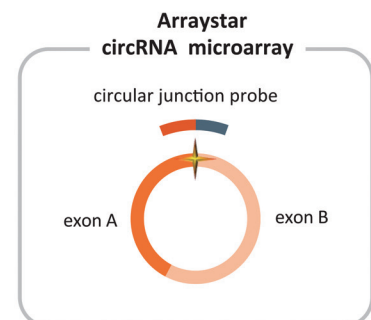


[View the publications](#)

- Overcome the challenges of circRNA profiling by sequencing
- Unique circular junction array probes to specifically and accurately profile circRNAs
- Enhanced sensitivity and specificity by RNase R treatment to remove linear RNAs
- Easy and straight forward analysis with detailed annotations for circRNA biology



circRNA enrichment from total RNA by RNase R treatment

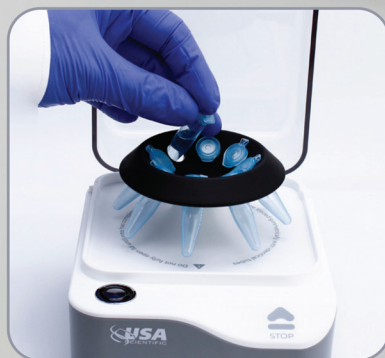


Unique circular junction probe for specific circRNA detection



The Personal Minicentrifuge

Take a quick spin
with your own
Personal Minicentrifuge!



Load



Spin



and Stop!



Its sleek design and compact footprint make the Personal Minicentrifuge the ideal addition to your workbench and portable enough for use in a fume hood. Contact us to schedule a free demo.

www.usascientific.com • 800-522-8477





NGS library prep? We've got you covered.

For 13 years, NEB[®] has addressed library prep challenges by offering solutions that streamline workflows, minimize inputs, and improve library yield and quality. In fact, use of NEBNext[®] reagents has been cited in >20,000 publications.

With over 90 products in the NEBNext portfolio and direct access to experts in NGS and enzymology, NEB can support library preparation for all of your sample types, for a wide range of sequencing platforms and throughputs.

The NEBNext Ultra[™] II workflow, which lies at the heart of the NEBNext library prep solution, is available in a variety of streamlined and convenient kit formats. For added flexibility, NEBNext kits are easily scalable for automation on liquid

handling instrumentation. As a reagent manufacturer, NEB is ideally positioned to support your large volume and custom needs through our OEM & Customized Solutions group.

Our expertise, proven track record and depth of portfolio make NEBNext a preferred choice for high-quality sample preparation. We're ready to show you why it should be yours.



Interested in giving NEBNext a try? Learn more and request a sample at **NEBNext.com**.

Products and content are covered by one or more patents, trademarks and/or copyrights owned or controlled by New England Biolabs, Inc. (NEB). The use of trademark symbols does not necessarily indicate that the name is trademarked in the country where it is being read; it indicates where the content was originally developed. The use of these products may require you to obtain additional third-party intellectual property rights for certain applications. For more information, please email busdev@neb.com.© Copyright 2022, New England Biolabs, Inc.; all rights reserved.

be INSPIRED
drive DISCOVERY
stay GENUINE



ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

GET IT DIRECT

RNA from TRIzol® in 7 Minutes

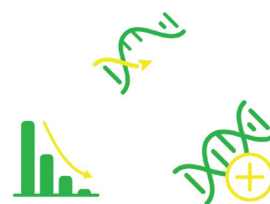


Infectious Samples, Tissue, Plants,
Cells, Brain, Liver, Viruses,
Bacteria, Serum, Adipose

Input Compatibility



RNA from TRIzol® in 7 Minutes



Reverse Transcriptase PCR
(RT-PCR)

Next-Gen Sequencing
(NGS)

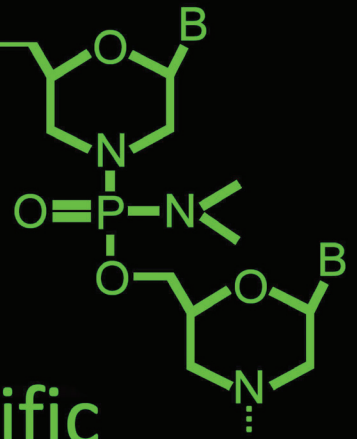
Downstream Applications



Request a Direct-zol™ RNA Sample Kit at
www.zymoresearch.com/pages/direct-zol

GENE TOOLS, LLC

www.gene-tools.com



A Morpholino oligo works like sequence-specific masking tape, blocking a section of RNA.

Halt the initiation complex.

Block snRNP binding.

Inhibit miRNA maturation.

Mask a poly-A tail signal.

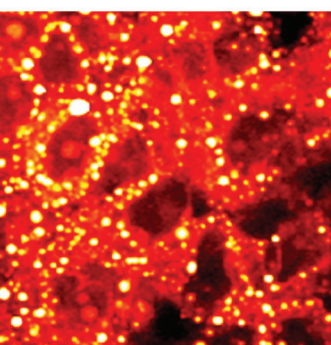
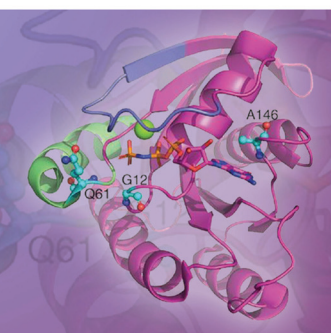
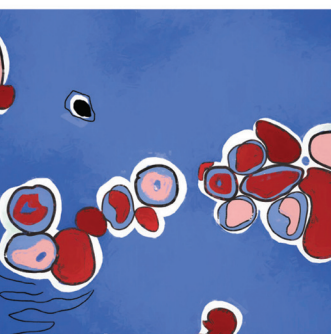
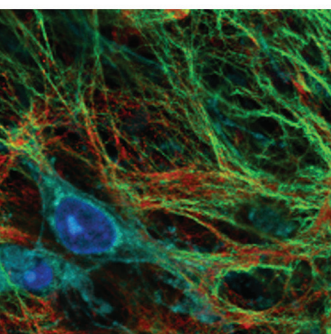
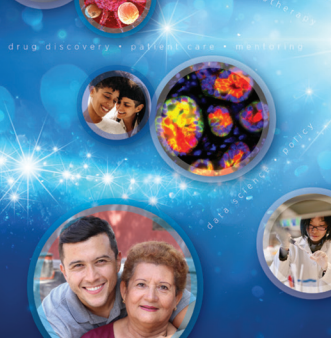
Switch splice regulation.

Invade RNA secondary structure.

Proven technology:

Four FDA-approved drugs

Over 11,000 publications



AACR American Association
for Cancer Research®

2022 - 2023 SCIENTIFIC CONFERENCES

Presenting the most significant research on cancer etiology, prevention,
diagnosis, and treatment

San Antonio Breast Cancer Symposium

December 6-10, 2022 | San Antonio, TX

Codirectors: Carlos L. Arteaga and
Virginia G. Kaklamani

AACR-JCA Joint Conference Breakthroughs in Cancer Research – Translating Knowledge into Practice

December 10 – 14, 2022 | Maui, HI

Conference Cochairs: Antoni Ribas and
Masanori Hatakeyama

Acute Myeloid Leukemia and Myelodysplastic Syndrome

January 23-25, 2023 | Austin, TX

Conference Cochairs: Ravi Majeti, Maria (Ken)
Figueroa, and Ruben Mesa

Pediatric Hematologic Malignancies

February 19 - 22, 2023 | New Orleans, LA

Conference Cochairs: Terry J. Fry, Mignon
L. Loh, and Alejandro Gutierrez

Targeting RAS

March 5-8, 2023 | Philadelphia, PA

Conference Cochairs: Mariano Barbacid, Dafna
Bar-Sagi, Frank McCormick, and Deborah
K. Morrison

EACR-AACR Basic and Translational Research Conference: Immune Responses and DNA Repair: Cancer Fields Converging

March 15 - 17, 2023 | Florence, Italy

Scientific Program Committee Cochairs: Alberto
Bardelli, Michael B. Kastan, and Nicola Normanno

Advances in Prostate Cancer Research

March 15 - 18, 2023 | Denver, CO

Conference Cochairs: Cory Abate-Shen, Felix Y.
Feng, and Scott A. Tomlins

AACR Annual Meeting 2023

April 14-19, 2023 | Orlando, FL

Program Committee Chair: Robert H. Vonderheide

Advances in Kidney Cancer Research

June 24 - 27, 2023 | Austin, TX

Conference Cochairs: Othon Iliopoulos, M. Celeste
Simon, Cheryl Lyn Walker, and Qing Zhang

Molecular Biology in Clinical Oncology Workshop

July 16 - 22, 2023 | San Diego, CA

Workshop Director: Ross L. Levine
Workshop Codirectors: Christine M. Lovly, and
Jean Y. Tang

Integrative Molecular Epidemiology Workshop

July 24 - 28, 2023 | Boston, MA

Workshop Codirectors: Peter Kraft, Lorelei A.
Mucci, and Elizabeth A. Platz

The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved

September 29 – October 2, 2023 | Orlando, FL

Conference Cochairs: To be announced

Due to the nature of the COVID-19 pandemic, dates may be subject to change.

Learn more and register at
AACR.org/Calendar

Follow us @AACR



BEAUTY and the YEAST!



Sequence what matters most! RiboCop rRNA Depletion affords an unbiased view of the transcriptome and allows analysis of mRNA as well as non-coding and non-polyadenylated RNAs.

Benefits:

- Preserve full-length RNA with an enzyme-free rRNA depletion technology.
- Deplete even low input, and degraded RNA samples with high efficiency.
- Maximize your unique sequencing reads without introducing depletion bias.
- Also available for Human/Mouse/Rat rRNA and globin, and bacterial rRNA depletion!

Product Information:

Cat. No. 190 (RiboCop rRNA Depletion Kit for Yeast)

RiboCop Treatment Increases Gene Detection

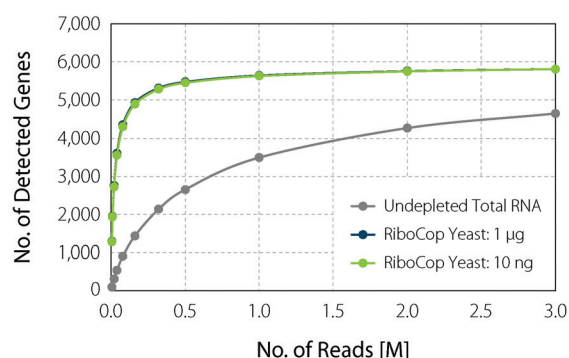


Figure 1 | Increased gene detection for *S. cerevisiae* across a wide range of input amounts.



Interested to learn more?

Check the RiboCop Yeast page for more information and secure a special offer for your first RiboCop kit!