

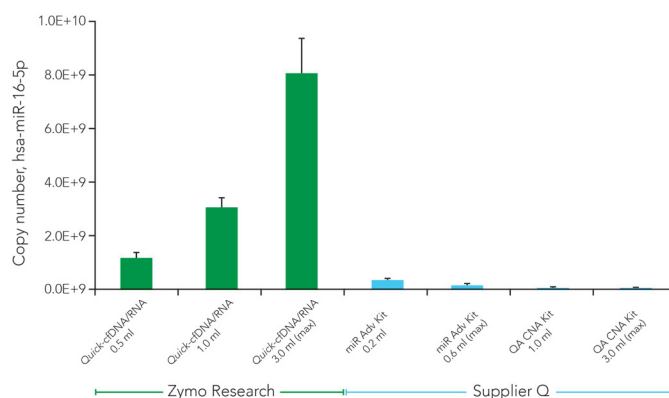
Efficient Cell-Free DNA & RNA Recovery

Quick-cfDNA/cfRNA™ Serum & Plasma Kit

- **Quick & Easy:** Simple spin-column based isolation. No phenol/chloroform or precipitation.
- **Highest Yields:** Efficient isolation of total cell-free RNA. Recover up to 515 times more micro RNA.
- **Ultra-Pure:** Ready for RT-qPCR, Next-Gen Sequencing, nCounter, etc.

Highest Recovery of Cell-Free miRNA

Cell-free RNA recovery scales proportionally with sample input using the Quick-cfDNA/cfRNA™ Serum & Plasma Kit. Cell-free RNA yields from the same plasma donor (61y-F) show linear and efficient recovery of plasma microRNA (hsa-miR-16-5p) when analyzed by RT-qPCR.



ZYMO RESEARCH

The Beauty of Science is to Make Things Simple®

Learn more about the Quick-cfDNA/cfRNA™ Serum & Plasma Kit at
www.zymoresearch.com/quick-cfdna-cfrna-serum-plasma-kit



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Superior mRNA Therapeutics Start **HERE**

TriLink® CleanCap™ technology sets a new standard for superior mRNA translation.

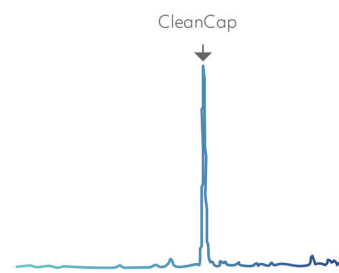
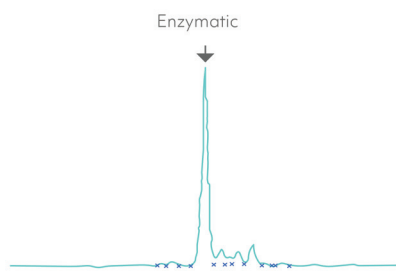
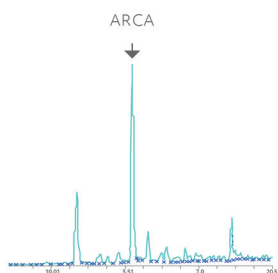
COST: Lowest cost per milligram of biologically active Cap 1 mRNA due to increased yield - **lower than ARCA!**

TIME: Simplified transcription process - "Single pot" reaction to produce a Cap 1 structure

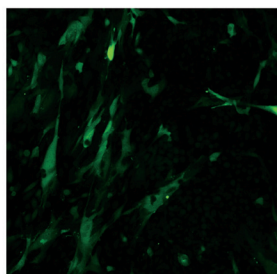
EFFICIENCY: 90-99% capping efficiency. Reduced cellular innate immune response with natural Cap 1 mRNA



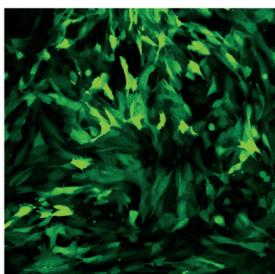
Successful development of mRNA therapeutics relies on reproducible, high-efficiency production of capped mRNA. CleanCap™ uses a new co-transcriptional chemical process for the highest level of mRNA capping:



LC-MS Capping Analysis



ARCA EGFP mRNA



CleanCap™ EGFP mRNA

Available as:

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mRNA -
catalog &
custom



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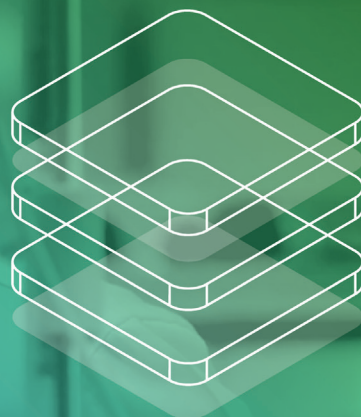
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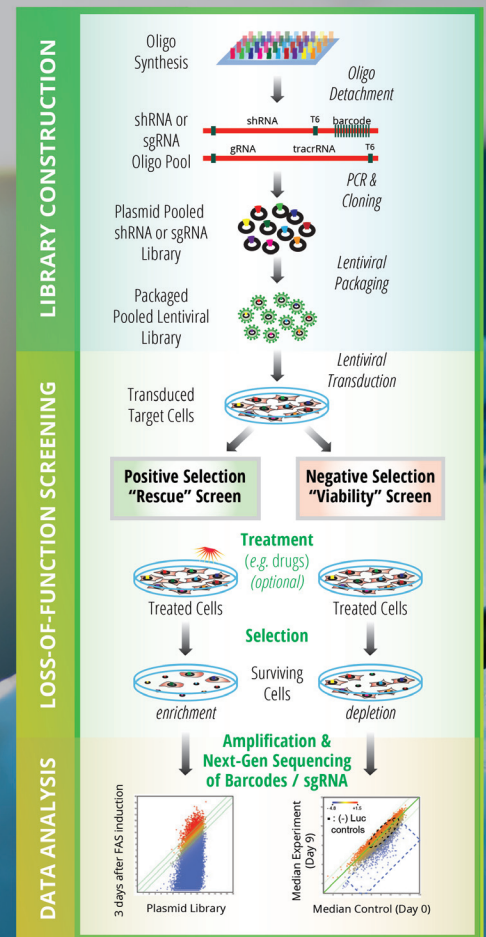


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The AACR logo consists of the letters "AACR" in a bold, white, sans-serif font, set against a solid green rectangular background.

American Association
for Cancer Research™

ANNUAL MEETING

2019  ATLANTA

March 29–April 3 | Georgia World Congress Center | Atlanta, GA

The background of the top half of the poster is composed of several large, overlapping geometric shapes in shades of green, blue, and yellow. On the right side, there is a photograph of a man with a beard, wearing a white lab coat, looking intently at a human skeleton model in a laboratory setting.

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INTEGRATIVE CANCER SCIENCE
GLOBAL IMPACT
INDIVIDUALIZED PATIENT CARE



#AACR19



AACR.org/AnnualMeeting



2019 RNA Meetings at CSHL



aerial view of CSHL sandspit and inner harbor during meeting social

RNA Control & Regulation

84th CSHL Symposium May 29 - June 3, 2019 Poster abstracts due March 8

Terri Grodzicker, David Stewart, Bruce Stillman *Cold Spring Harbor Laboratory*

Topics

RNA-Based Structures

RNA Modifications

Nuclear Localization of RNA

Quality Control & Editing

RNA & Gene Regulation

Cotranscriptional Splicing

Intron / Exon Boundaries

Alternative Polyadenylation

Transposon Control

Small Noncoding RNAs

Long Noncoding RNAs

RNA & Development

Membrane-Less Organelles

Phase Separation

RNA-Based Diseases

Novel RNA functions

meetings.cshl.edu/rnasymp

RNA & Oligonucleotide Therapeutics

March 27 - 30, 2019 Abstracts due January 11

Annemieke Aartsma-Rus, *Leiden University Medical Center* **Masad Damha**, *McGill University*

Matthew Stanton, *Generation Bio* **Laura Sepp-Lorenzino**, *Vertex Pharmaceuticals Inc.*

Topics

Nucleic Acid Chemistry

Delivery

Emerging Therapeutics

Preclinical Development

Clinical Programs

Safety

meetings.cshl.edu/rnatx19

Eukaryotic mRNA Processing

August 20 - 24, 2019 Abstracts due May 31

Alberto Kornblihtt, *University of Buenos Aires, Argentina*

Jens Lykke-Andersen, *University of California, San Diego*

Karla Neugebauer, *Yale University*

Topics

Alternative splicing

Mechanisms of RNA Splicing

RNA-Protein interactions

RNP complexes

3' end processing

RNA modification

RNA structure

Co-transcriptional RNA processing

RNA turnover & quality control

Small RNA biogenesis and function

Viruses and RNA processing

meetings.cshl.edu/mrna19



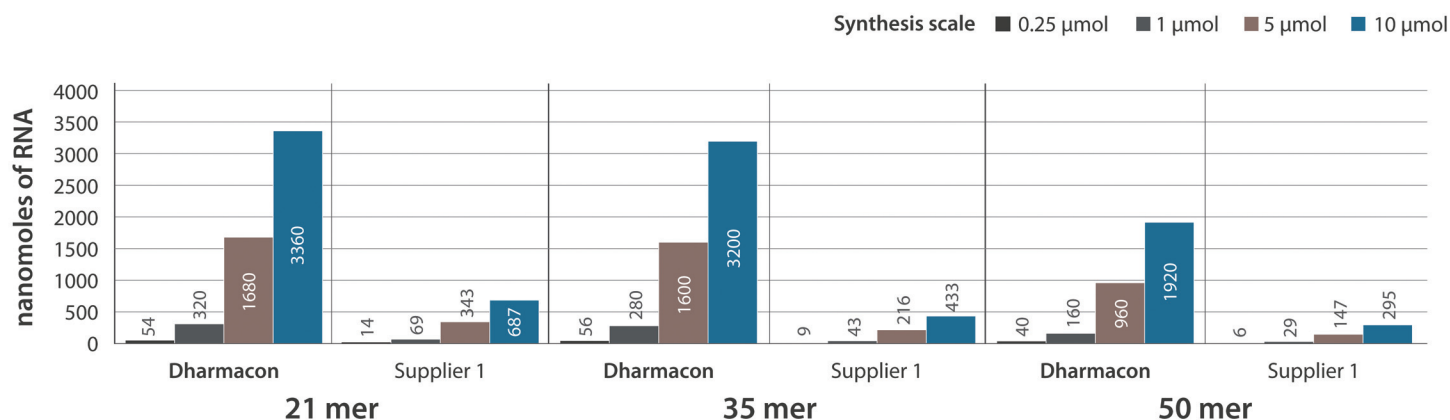
meeting participants at social

Meet your custom RNA requirements with our nearly limitless synthetic options

If your NMR, crystallography, or RNA binding study requires a non-standard chemical modification or a commercially unavailable modified nucleobase, we can help. For more than 20 years our chemists have utilized Dharmacon™ proprietary 2' ACE chemistry to synthesize RNA with superior yield and quality giving you the flexibility you need.

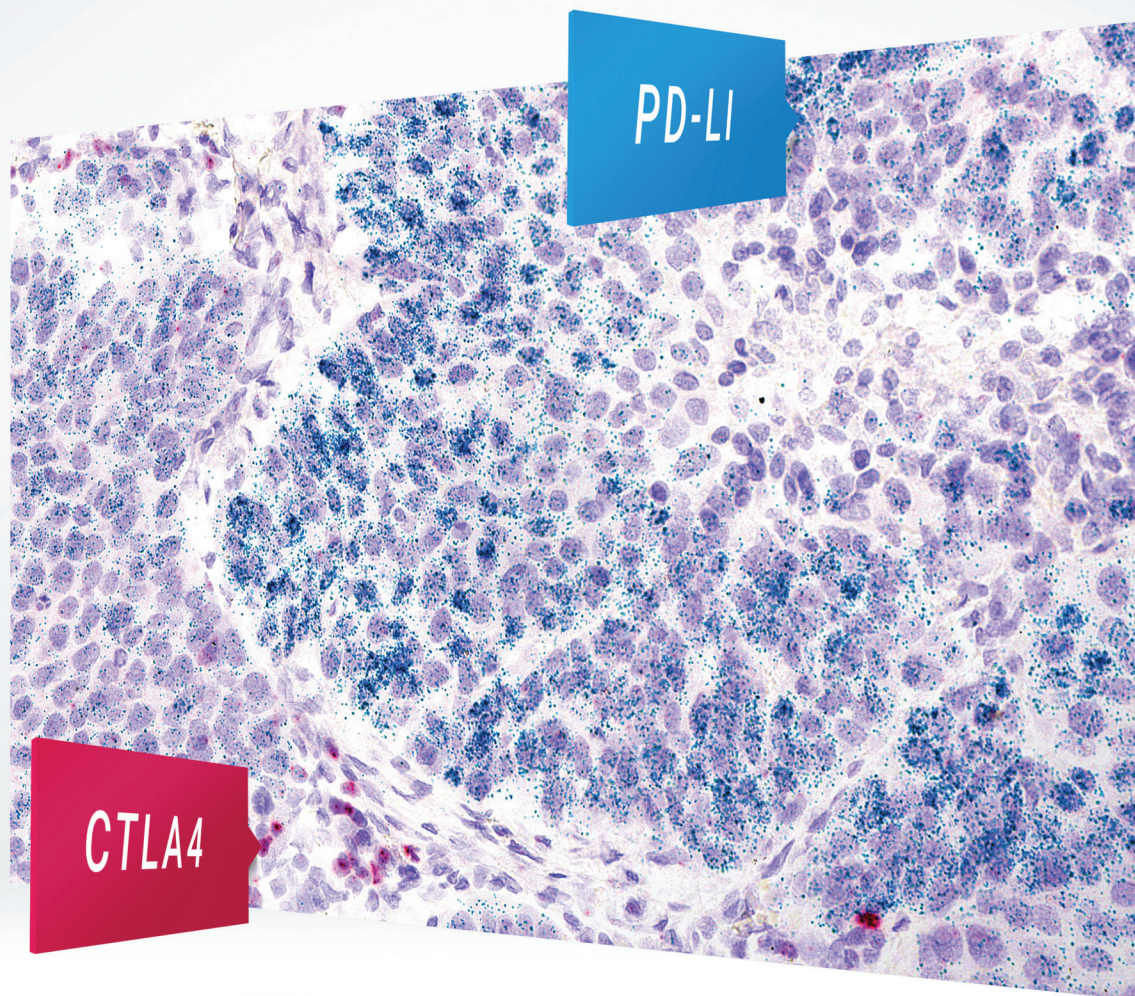
Better RNA yields give you more for your money

RNA yield (HPLC-purified)



The yield for RNA oligos of three different lengths was compared for all available synthesis scales between Dharmacon and a competitor.





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