CELLECTA

Complex Projects for Target & Biomarker Discovery. Simplified.

CELLECTA

YOUR INPUT

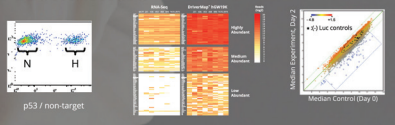
Cell or Animal Models
Biological Samples

YOUR BRIDGE TO DISCOVERY

- **CRISPR / RNAi** Libraries & Genetic Screens
- **DriverMap**™ Targeted RNA-Seq Expression
- **DriverMap**™ Adaptive Immune Receptor Profiling
- **CloneTracker**™ Barcode Libraries

YOUR RESULTS

Functionally Important Genes & Biomarkers



Real expertise delivering superpowered results. Visit cellecta.com today.

Who we are

Cellecta Inc., a trusted provider of genomic products and services for drug target multiplex qRT-PCR has given rise to a portfolio of offerings useful for and biomarker discovery, has successfully collaborated with the world's leading pharma, biotech, government, and academic institutions since 2006. Our recognized expertise in viral vector production, functional screening, cell engineering and loss-of-function and gain-of-function phenotypic screening, cell barcoding, targeted RNA-Seq expression & adaptive immune receptor profiling, and more.

We can power your discovery.

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CELLECTA

EPIGENDX

DNA METHYLATION CONTROLS

Keep Your DNA Methylation Experiments in Control

AVAILABLE CONTROLS

- High or Low Methylated DNA
- Methylation Calibration Standards
- Human, Mouse, Rat, Monkey, and Custom-Made Controls

DNA METHYLATION ANALYSIS

Targeted Bisulfite NGS (tNGBS)

- Single base-pair resolution
- Provide β-value methylation results
- High coverage with average >500x and a minimum 100x

Pyrosequencing Methylation Analysis

- Quantitative, accurate, and cost-effective

DNA METHYLATION ASSAY KITS

Line-1 Global Methylation Assay

- Represents ~17% of the human genome
- Serves as global methylation markers
- Compatible: MS-HRM, tNGBS, and Pyrosequencing

Foxp3 Methylation Assay Panels

- Quantify methylation levels in Treg signature genes, including Foxp3, CTLA4, IL2RA (CD25)
- Compatible: MS-HRM, tNGBS, and Pyrosequencing

GET IN TOUCH

800.941.6884 508.497.9400
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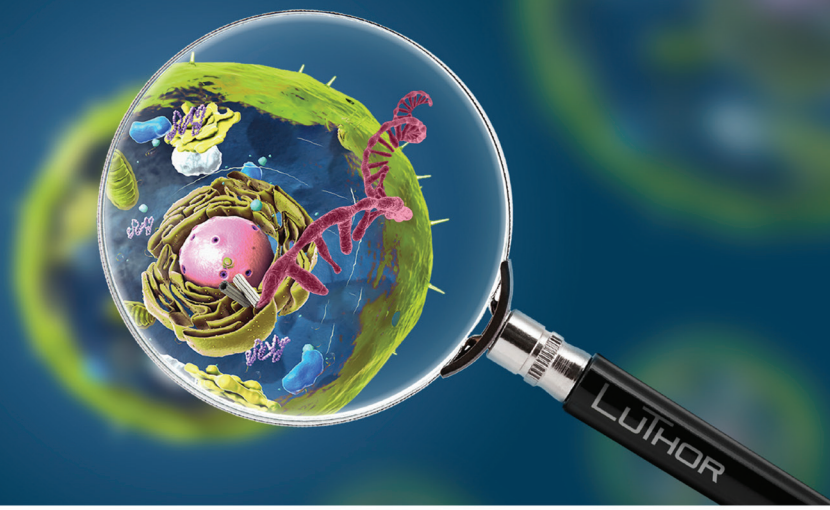
LEXOGEN
The RNA Experts

lexogen.com

Take a look at the whole picture

with LUTHOR High-Definition scRNA-Seq kits



LUTHOR: your gateway to High-Definition Single-Cell RNA sequencing

When you need to handle subnanogram RNA amounts, you can count on LUTHOR to help! Ideally designed for samples ranging from 100 cells down to a single cell, from 1 ng down to 10 pg total RNA - and even lower - the THOR in vitro transcription step will open up new possibilities and allow you to see many more genes and to determine their expression levels. LUTHOR HD focuses on 3' ends of each gene, hence simplifying the data analysis to the sequences that matter for gene identification and gene count.

Library preparation starts with generation of a double-stranded template for T7-promoted *in vitro* transcription, at the gene 3' end (Fig. 1). Amplified RNA is then prepared by random-primed reverse transcription and subsequent library amplification (not shown).

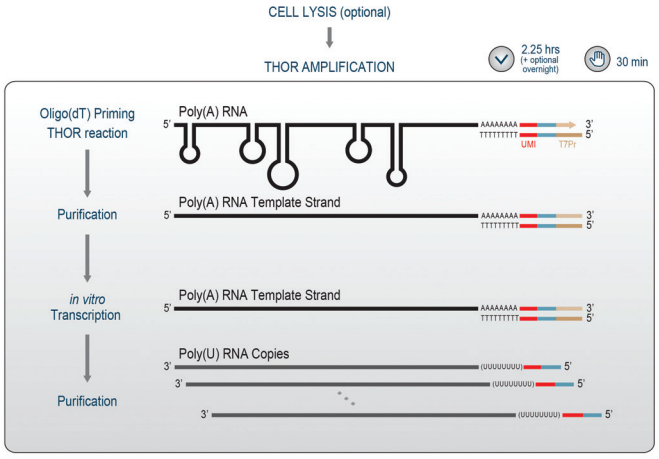
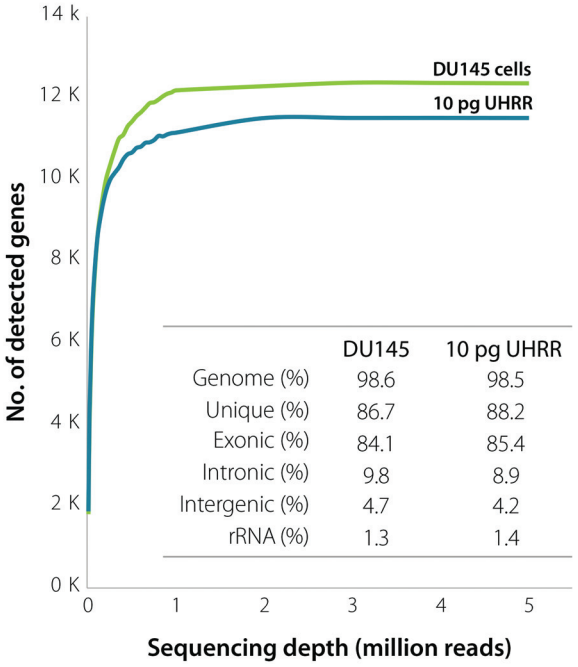


*Figure 1 | THOR (**T**7 **H**igh-resolution **O**riginal **R**NA amplification) reaction diagram. Red line: UMI; blue line: Illumina adapter; light brown line: T7 promoter.*



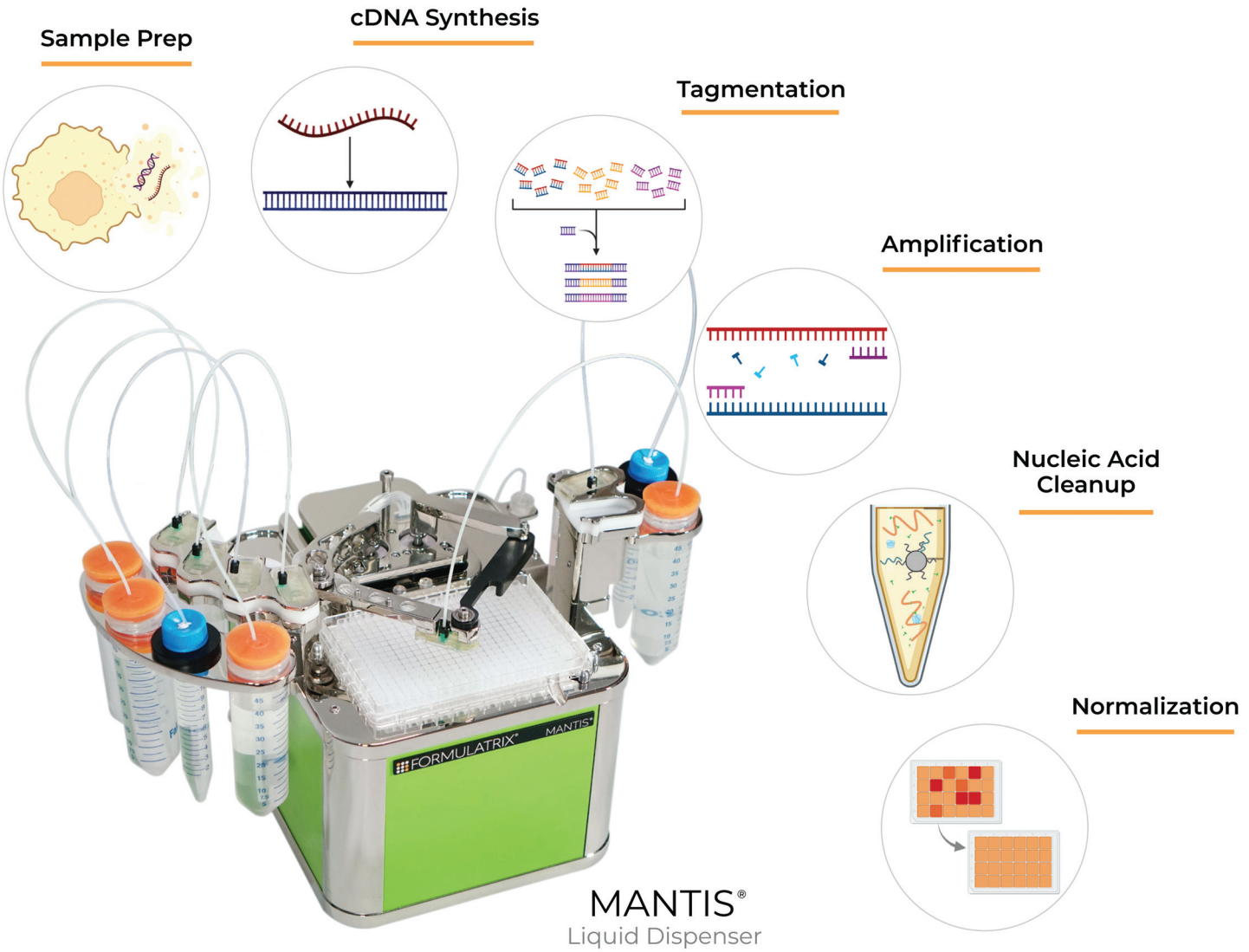
	DU145	10 pg UHRR
Genome (%)	98.6	98.5
Unique (%)	86.7	88.2
Exonic (%)	84.1	85.4
Intronic (%)	9.8	8.9
Intergenic (%)	4.7	4.2
rRNA (%)	1.3	1.4

Figure 2 | Sensitivity of LUTHOR. Scatter plots of the average number of genes detected per DU145 human cell (contains 18.3 ± 1.5 pg of total RNA) and 10 pg Universal Human Reference RNA (UHRR) inferred across four replicates at stepwise-reduced read fractions (CPM > 1). Table shows sequencing alignment metrics across four DU145 cells and 10 pg UHRR replicates at 1 million read depth.

Interested to learn more?

Check the *Nature Methods* application note!

Miniaturize Your NGS Reactions and Costs by 10X



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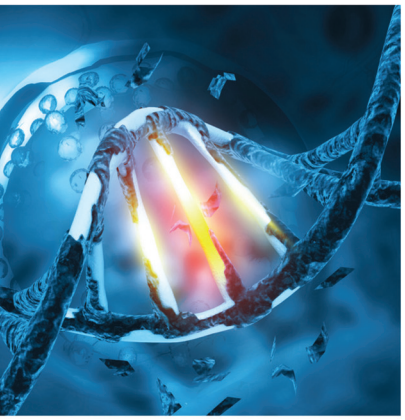

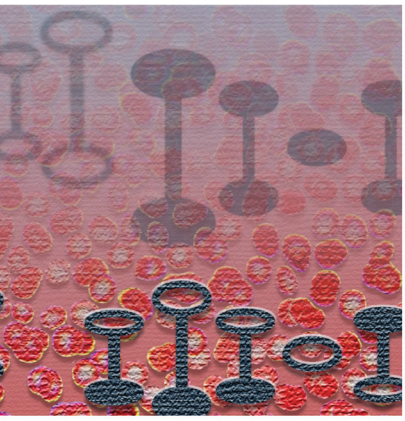

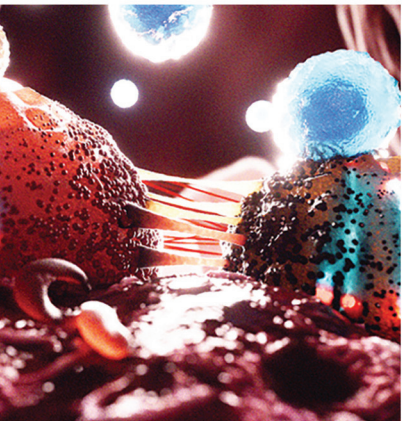

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2023-2024 SCIENTIFIC CONFERENCES

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

Cancer Research: Translating Cancer Evolution and Data Science: The Next Frontier
December 3-6, 2023 | Boston, MA
Conference Cochairs: Anna D. Barker, Franziska Michor, and Jeffrey P. Townsend

San Antonio Breast Cancer Symposium
December 5-9, 2023 | San Antonio, TX
Codirectors: Carlos L. Arteaga and Virginia G. Kaklamani

DNA Damage Repair: From Basic Science to Future Clinical Application
January 9-11, 2024 | Washington, DC
Conference Cochairs: Robert G. Bristow, David K. Cortez, Susan P. Lees-Miller, and Simon N. Powell

EACR-AACR Basic and Translational Research Conference: How to Bring Basic Science Discoveries to the Clinic
February 27-29, 2024 | Dublin, Ireland
Committee Cochairs: Rene Bernards, Christine M. Lovely, and Tracy Robson

***Blood Cancer Discovery* Symposium**
March 4-6, 2024 I Boston, MA
Symposium Co-chairs: Kenneth C. Anderson, and Riccardo Dalla-Favera

AACR American Association for Cancer Research®
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2024 • SAN DIEGO

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Early Registration Deadline: December 15, 2023
Late Breaking Abstract Submission Opens: December 18, 2023
Program Committee Chairs: Keith T. Flaherty and Christina Curtis

Bladder Cancer: Transforming the Field
May 17-20, 2024 | Charlotte, NC
Conference Cochairs: Lars Dyrskøjt Andersen, Donna E. Hansel, Dan Theodorescu, and Tahlita C. M. Zuiverloon

Pediatric Cancer
September 5-8, 2024 | Toronto, ON, Canada
Conference Cochairs: Alejandro Gutierrez, Cynthia E. Hawkins, Andrea A. Hayes, and Gilles Vassal

Pancreatic Cancer
September 15-18, 2024 | Boston, MA
Conference Cochairs: Peter J. Allen, Stephanie K. Dougan, Michael A. (Tony) Hollingsworth, and Alec C. Kimmleman

Tumor Immunology and Immunotherapy in association with the Cancer Immunology (CIMM) Working Group
October 18-21, 2024 | Boston, MA
Conference Cochairs: Yvonne Y. Chen, Sergio Quezeda, Robert D. Schreiber, and Fernando Vidal-Vanaclocha

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Doing science doesn't have to be wasteful.

1

2

Made with recycled material

The transfer covers (2) and refill cassette bases (4) are now produced with recycled material. The racks (5) will start production soon.

This keeps recycled plastic out of the landfills and lowers the need for new plastic.

4

5

3 **Still made with 100% virgin polypropylene**

The rack lid (1), wafer and tips (3) will continue to be 100% virgin polypropylene.

TipOne tips will remain unchanged to ensure the same exceptional quality as always.

INNOVATE WITHOUT COMPROMISE

Plastic consumables play a significant role in scientific research and discovery, but their use can have environmental implications. USA Scientific is committed to supporting sustainability in the lab and reducing the environmental impact of our products. As part of our ongoing efforts, we are gradually making TipOne® more eco-friendly while maintaining the reliability of our pipette tips. We are thrilled to announce that our TipOne Filter Tip Refills will now feature packaging made from recycled materials. These refills have already reduced polypropylene usage by up to 63% compared to traditional filter tip products, and the addition of recycled packaging further reduces plastic waste. This is just the beginning of our sustainability journey, and we will continue to enhance TipOne and all our products as technology improves.

TipOne® LEARN MORE AT USASCIENTIFIC.COM/TIPONE-IMPACT

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