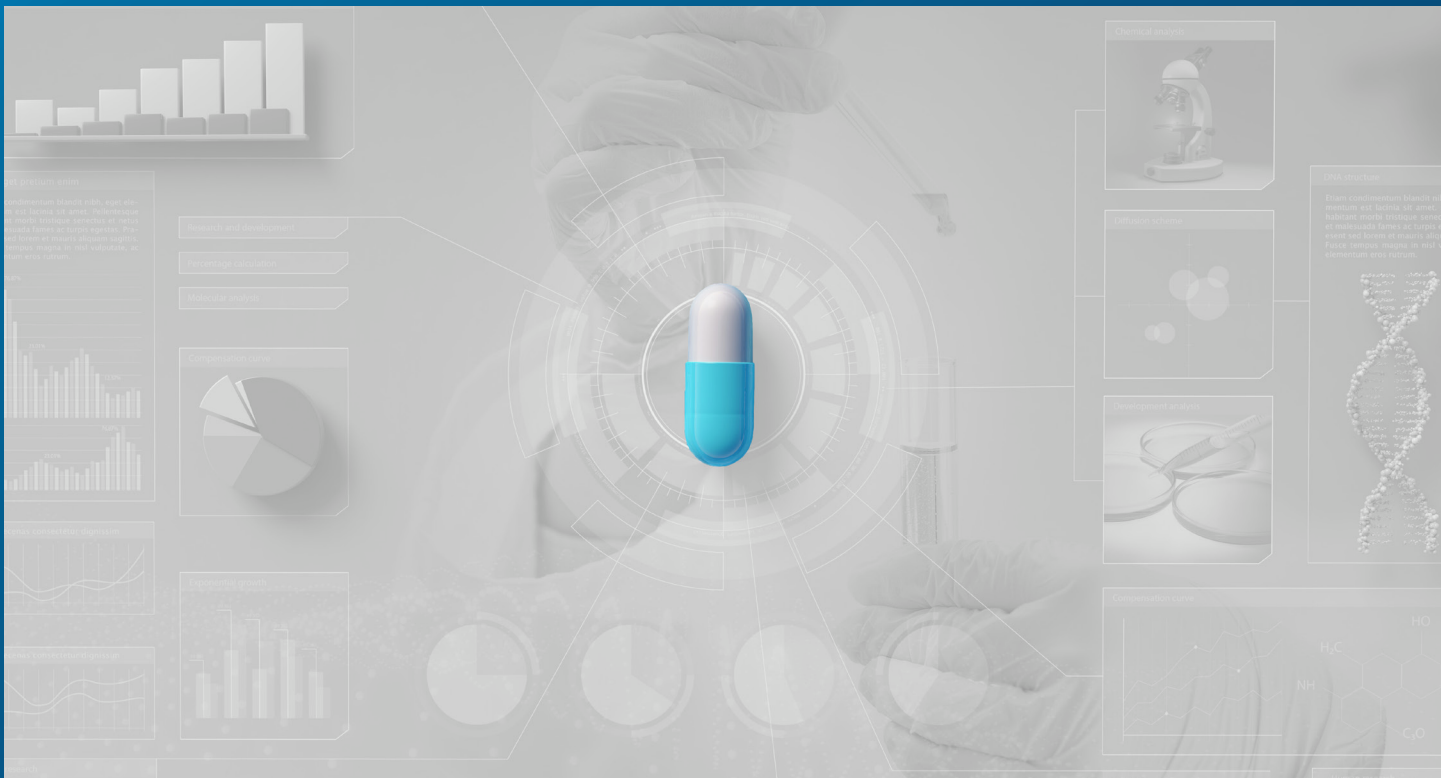


# ALITHEA GENOMICS

## RNA sequencing at scale.

Discover the unparalleled scalability of our multiplexed RNA-seq solutions and unleash the power of big RNA data



MERCURIUS™

**DRUG-seq**

library preparation kits for Illumina®

Extraction-free protocol

Our MERCURIUS™ DRUG-seq technology enables the streamlined preparation of 3' mRNA-seq libraries of hundreds of RNA samples in a single tube.

## Benefits

The Extraction-free **DRUG-seq** kits contain all the oligos and enzymes needed to go from 2D cell cultures to sequencing-ready DNA libraries.



### Ideal for screening projects

More samples, more replicates. Robust results, significant discoveries.



### Streamlined data pre-processing

Demultiplex and align your DRUG-seq data with our easy-to-use cloud-based platform.



### No need for prior RNA extraction

An optimized lysis buffer for complete lysis and efficient reverse transcription.



### Improved DRUG-seq protocol

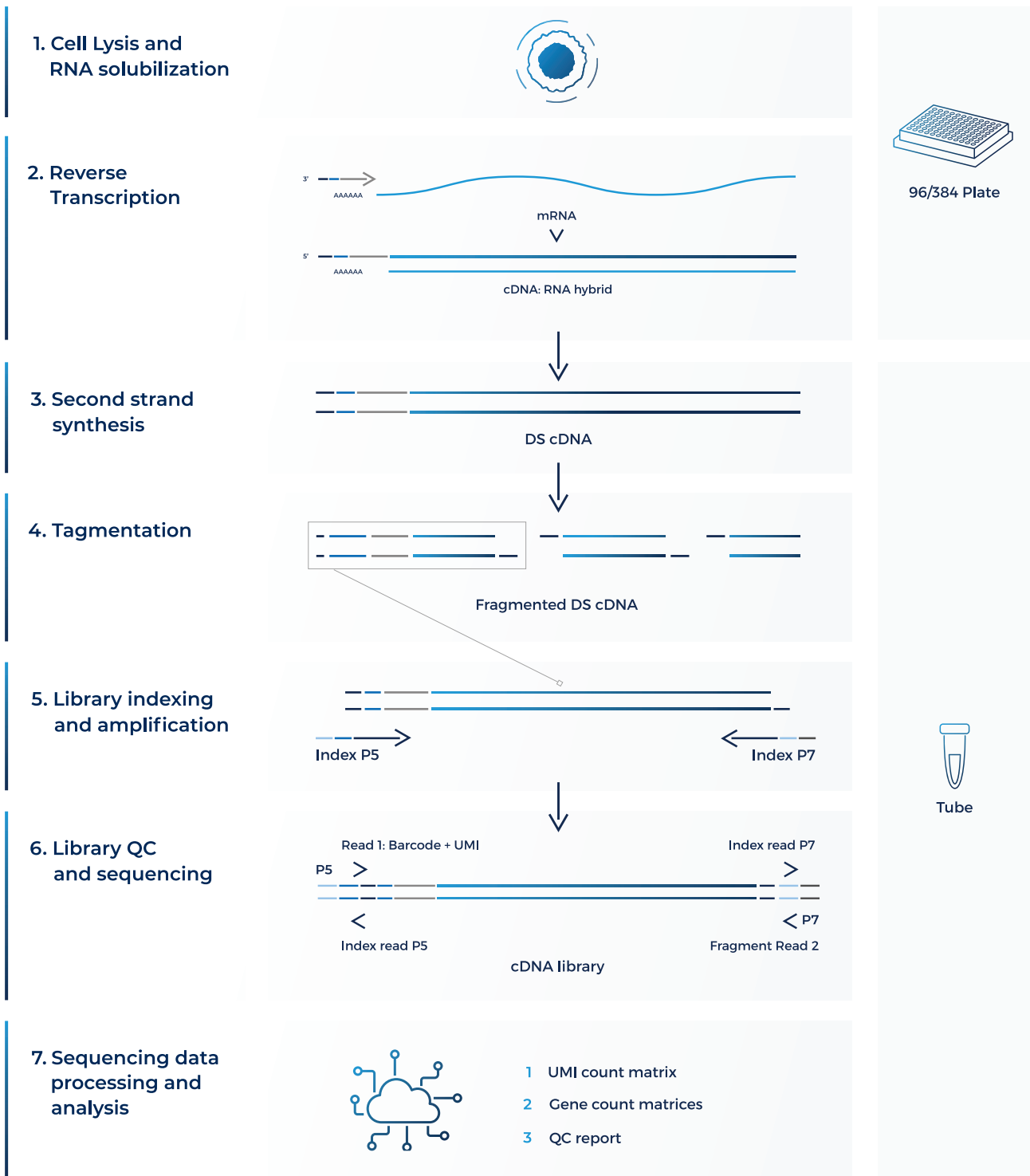
Without pre-amplification, leading to higher mapping and gene detection rates.



### One-day lab workflow

Convenient and short protocol from samples to sequencing-ready libraries in one day.

# Experimental workflow at a glance

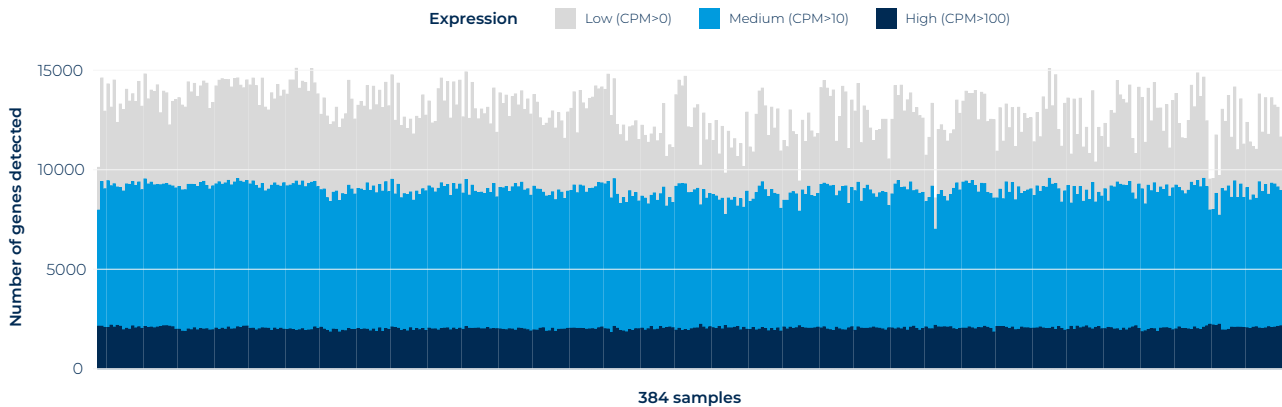


The **DRUG-seq** workflow begins by adding a proprietary cell lysis buffer directly to pre-washed cells in the well plate. The lysates can then be used directly in reverse transcription reactions in which individual RNA samples are “tagged” with a specific DRUG-seq barcode and each RNA molecule is marked with a unique molecular identifier (UMI).

All samples are subsequently pooled into one single tube and purified. Library amplification is performed with unique dual indexes to maximize the efficiency of library demultiplexing during next-generation sequencing.

# Large-scale transcriptomics made possible

Below is a sample result obtained using a MERCURIUS™ DRUG-seq kit, which highlights the uniform distribution of the number of genes detected for each sample at three different counts per million (CPM) thresholds.



**Figure.** Sample plot generated from the MERCURIUS™ DRUG-seq kit pipeline showing the number of detected genes for three counts per million (CPM) thresholds (i.e., a gene is considered 'detected' only if the number of attributed reads is greater than the CPM threshold). The library was sequenced at an average of 1.5 million reads per sample (n = 384 samples).

## Related products



### Total reactions

how many library preps can be prepared in total with one kit

96      384      384      1'536      6'144      24'576

### RNA and plate multiplexing format

how many samples can be pooled in one tube after RT

96      96      384      384      384      384

### UDI pairs included

corresponds to how many separate pools can be prepared with one kit

4      4      4      4      16      16

Lysis buffer      Included      Included      Included      Included      Included      Included

For more reactions, higher multiplexing and more UDIs inquire today.

## Alithea Genomics is trusted by



Reach out to us



+41 788 30 31 39



info@alitheagenomics.com