

Supercharge Your Single-Cell Multiomics Projects with Single-Cell Genomics Experts

Custom Service Projects



PhD project management and reporting

Increase probability of success with PhD-level single-cell genomics experts with a track record of successfully completed projects with academia, industry, and government agencies.



Cell sorting from fresh or frozen cells and tissues

Expand the number of cells available for analysis by using validated cell isolation and sorting technologies, whether the starting material is fresh or frozen tissue, cell cultures or single cells.



Single-cell or low-input DNA whole genome amplification with ResolveDNA®

Leverage primary template-directed amplification (PTA)¹ to dramatically increase genomic capture and coverage to 97%. Reduce biases, experimental artifacts, and poor reproducibility associated with other whole genome amplification methods.²



Single-cell whole genome and transcriptome amplification with ResolveOME™

Couple the industry-leading performance of PTA whole genome amplification with a transcriptomic assay that provides improved gene body coverage, representation across transcript sizes, and variant calling versus droplet-based RNA sequencing methods.³



Library preparation and low-pass sequencing to qualify libraries for deeper sequencing

Use ResolveDNA Library Preparation Kit for preparing Illumina® libraries with ResolveDNA Multi-Use Library Adapters. The fragment sizing and yield of Illumina libraries are determined before sequencing to maximize results. Additional sequencing options are available.



Design custom projects with ResolveDNA® and ResolveOME™

Change the starting material from cells to nuclei, include exome or panel enrichment, or add oligo-conjugated antibodies for triomic (DNA, RNA, and extracellular protein) analysis.



Bioinformatics analysis with BaseJumper™

Reduce the dependency on internal computational resources with bioinformatics analysis and publication-ready data visualization by PhD-level computational biologists.

References:

1. Gonzalez-Pena V, et al. Proc. Natl. Acad. Sci. U.S.A. 2021; 118 (24): e2024176118; doi: 10.1073/pnas.2024176118
2. Luquette L, et al. Nat Gen. 2022; 54: 1564–1571. doi: 10.1038/s41588-022-01180-2
3. Data on file

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ResolveDNA® and ResolveOME™ Assay Performance

Table 1: ResolveOME WGS DNA Performance*

Characteristic	Observed Values
Accuracy	99.5%
Sensitivity	97.1%
Specificity	99.2%
Allelic Balance	98.4%
Genomic Coverage	97.1%

Table 1: Assay performance characteristics of DNA isolated using ResolveOME. Analysis of FACS-sorted NA12878 single cells prepared with ResolveOME versus gold-standard reference. WGS: whole genome sequencing.

*DNA amplified using ResolveDNA and ResolveOME have comparable DNA performance characteristics. All data on file.

Table 2: ResolveOME WTS RNA Performance

Characteristic	Observed Values
Genes Detected	4,546
Reportable Range	6,057
Average Concordance	0.91
Reproducibility (CV)	43.3%

Table 2: Assay performance characteristics of RNA isolated using ResolveOME. Analysis of FACS-sorted NA12878 single cells prepared with ResolveOME versus gold-standard reference. WTS: whole transcriptome sequencing.

Proof-of-Concept Studies: Generate Key Pilot Data for New Research Areas

ResolveDNA Proof-of-Concept Pilot: 90 cells**

Project Management, Intake, Accessioning, Verification

Viability Sorting and Sample QC

Single Cell ResolveDNA
Genome Amplification and QC

ResolveDNA Library Preparation and QC

Data Delivery via BaseJumper

QC Library Diversity Analysis (BaseJumper)

Library Shipping (Domestic US)

ResolveOME Proof-of-Concept Pilot: 48 cells**

Project Management, Intake, Accessioning, Verification

Viability Sorting and Sample QC

Single Cell ResolveOME
Genome and Transcriptome Amplification and QC

ResolveOME DNA and RNA Library Preparation and QC

Data Delivery via BaseJumper

QC Library Diversity Analysis (BaseJumper)

Library Shipping (Domestic US)

**Extended pricing available for pilot projects requiring a larger number of cells

Products

Code	Product	Description
100500	ResolveOME™ Whole Genome and Transcriptome Amplification System	PTA-based kit for accurate and reproducible whole genome and transcriptome amplification from single cells.
100545	ResolveDNA® Whole Genome Amplification Kit	PTA-based kit for accurate and reproducible whole genome amplification from single cells and low-input DNA inputs.
100605	BaseJumper™ Bioinformatics Platform	A complete bioinformatics solution for multiomic data analysis and visualization.

For a complete list of services, products, and pricing, email a member of our team, info@bioskryb.com



All data on file.

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