

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

ResolveServicesSM Projects



PhD project management and reporting

Increase probability of success with 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) to dramatically increase genomic capture and coverage to 97%. Reduce biases, experimental artifacts, and poor reproducibility associated with other whole genome amplification methods.^{1,2}



Single-cell whole genome and transcriptome amplification with ResolveOME[™]

Couple the industry-leading performance of PTA whole genome amplification with a transcriptomic assay that improves gene body coverage, representation across transcript sizes, and variant calling versus droplet-based RNA sequencing methods.^{3,4}



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

Use ResolveDNA or ResolveOME Single-Cell Core Kits for preparing Illumina[®] libraries. 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 targeted 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. Marks JR, et al. bioRxiv. 2023; doi: <https://doi.org/10.1101/2022.04.29.489440>
4. Data on file

Assay Performance

Table 1: ResolveOME WGS DNA Performance

Characteristic	Observed Values
Accuracy	99.99%
Sensitivity	96.65%
Specificity	99.99%
Allelic Balance	91.20%
Genomic Coverage	97.59%

Table 2: ResolveOME WTS RNA Performance

Characteristic	Observed Values
Protein Coding Genes	3451 ± 732
Concordance	0.97
Variance (CV)	32.9%

Assay performance characteristics of DNA (Table 1) and RNA (Table 2) isolated using ResolveOME Whole Genome and Transcriptome Single-Cell Core Kit. Analysis of FACS-sorted NA12878 single cells prepared with ResolveOME versus gold-standard reference. WGS: whole genome sequencing. WTS: whole transcriptome sequencing.

A Revolution in Resolution From Each Cell

DNA

- Resolve SNV
- Resolve SV
- Resolve CNV
- Resolve Ploidy
- Resolve Exomes
- Resolve Genomes
- Resolve Panels
- Resolve Edits

DNA + RNA

- Resolve Transcriptomes
- Resolve Isoforms
- Resolve Cell ID
- Resolve Fusions

DNA + RNA + Targeted Proteins

- Resolve Multiomes

Resolve **More.**

Products

Codes	Product	Description
100956	ResolveOME™ Whole Genome and Transcriptome Single-Cell Core Kit	PTA-based kit for accurate and reproducible whole genome and transcriptome amplification plus sequencing library preparation from single cells. 96 reactions per kit.
100954 100955	ResolveDNA® Whole Genome Single-Cell Core Kit	PTA-based kits for accurate and reproducible whole genome amplification plus sequencing library preparation from single cells. Kits available with 96 or 384 reactions.
100605	BaseJumper® Bioinformatics Platform	A complete bioinformatics solution for multiomic data analysis and visualization.
Early-Access Only	ResolveXOME™ Exome Capture Module	Exome capture module for use with ResolveDNA Whole Genome Single-Cell Core Kit.

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



bioskryb.com

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