

The Next Generation Single-Cell Technology



Whole genome and transcriptome sequencing from a single cell

Uses a single cell for the construction of a whole-genome and full-length mRNA transcriptome library.



Industry-leading genomic coverage and resolution

Leverages a novel patented technology, primary template-directed amplification (PTA), to dramatically increase genomic capture and coverage to 97%.^{1,2}



Superior transcriptome capture and coverage

Increases gene body coverage, representation across transcript sizes, and variant calling versus droplet-based RNA sequencing methods.^{3,4}



DNA, RNA, and targeted protein analysis from individual cells

Provides integrated DNA-informed multiomic data on a single cell level.

A Revolution in Resolution From Each Cell

DNA

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

DNA + RNA

Resolve Transcriptomes	Resolve Fusions
Resolve Isoforms	Resolve Cell ID

DNA + RNA + Targeted Proteins

Resolve Multiomes

Research Areas Include:

- Oncology
- Cell and Gene Therapy
- Neurology
- Reproductive Health
- Foundational Research

Resolve More.

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.

ResolveServicesSM

Custom service projects, from singulating cells to figures. Services can include:

- Cell and/or nuclei sorting from fresh or frozen cells and tissues
- Whole genome amplification or whole genome and transcriptome amplification
- Exome capture, panel enrichment, or targeted protein analysis
- Library preparation for downstream applications
- Sequencing or library return services
- Analysis using our bioinformatics platform, **BaseJumper[®]**, or bespoke computational analysis

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



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