BioSkryb GENOMICS

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

DNA + RNA

- Resolve Transcriptomes
- Resolve Isoforms
- Resolve Fusions
- 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.

ResolveServices℠

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 100957	ResolveOME™ Whole Genome and Transcriptome Single-Cell Core Kit	PTA-based kit for whole genome and transcriptome amplification plus NGS library preparation from single cells. 96 or 384 reaction formats.
100954 100955	ResolveDNA® Whole Genome Single-Cell Core Kit	PTA-based kits for whole genome amplification plus NGS library preparation from single cells. 96 or 384 reaction formats.
100545	ResolveDNA® Whole Genome Amplification Kit	PTA-based kit for whole genome amplification from as little as 4 pg input DNA. Capable of 96 or 384 reactions.
100605	BaseJumper® Bioinformatics Platform	A platform for multiomic data analysis and visualization.
Early-Access	ResolveXOME™ Exome Capture Module	Exome capture module for use with ResolveDNA or ResolveOME Single-Cell Core Kits.

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

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