

## Decipher Mechanisms of Gene Expression Changes with Single-Cell Multiomics

### ResolveOME Whole Genome and Transcriptome Amplification System



#### Whole genome or exome and transcriptome sequencing from a single cell

Uses a single cell for the construction of a whole-genome and full-length mRNA transcriptome library. Workflow available for hybrid capture compatibility.



#### Provides 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%.<sup>1,2</sup>



#### Superior transcriptome capture and coverage

Increases gene body coverage, representation across transcript sizes, and variant calling versus droplet-based RNA sequencing methods.<sup>3,4</sup>



#### Fits into established laboratory protocols

Compatible with various methods of single-cell singulation, sequencing platforms, and downstream applications, including whole exome and panel-based sequencing.<sup>4</sup>



#### Scales to experiment size

Low-cost, automation-compatible, scalable approach with up to 384 reactions.



#### Bioinformatics analysis available with BaseJumper®

Bioinformatics analysis and data visualization through BaseJumper bioinformatics platform and computational biology custom services.



#### 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

ResolveOME WGS DNA Performance	
Accuracy	99.99%
Sensitivity	96.65%
Specificity	99.99%
Allelic Balance	91.20%
Genomic Coverage	97.59%

ResolveOME WTS RNA Performance	
Protein Coding Genes	3451 ± 732
Concordance	0.97
Variance (CV)	32.9%

**Figure 1: Assay Performance Characteristics.** Analysis of NA12878 single cells prepared with ResolveOME Whole Genome Single-Cell Core Kit 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

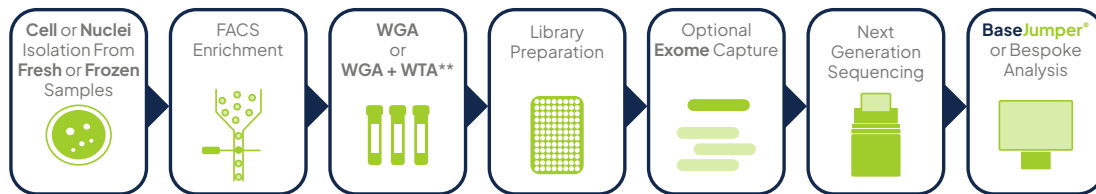
### DNA + RNA

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

Resolve **More.**

## ResolveServices<sup>SM</sup>

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



FACS: Fluorescence-Activated Cell Sorting, WGA: Whole Genome Amplification, WTA: Whole Transcriptome Amplification, \*\*Optional **targeted protein** detection available

## Products

Product	Description	Codes	Well Format
<b>ResolveOME™</b> Whole Genome and Transcriptome Single-Cell Core Kit	PTA-based kit for whole genome and transcriptome amplification plus NGS library preparation from single cells.	100956	96
		100957	384
<b>ResolveDNA®</b> Whole Genome Single-Cell Core Kit	PTA-based kit for whole genome amplification plus NGS library preparation from single cells.	100954	96
		100955	384
<b>ResolveDNA®</b> Whole Genome Amplification Kit	PTA-based kit for whole genome amplification from as little as 4 pg input DNA.	100545	Up to 384*
<b>BaseJumper®</b> Bioinformatics Platform	A platform for multiomic data analysis.	100605	-
<b>ResolveXOME™</b> Exome Capture Module	Exome capture module for use with ResolveDNA or ResolveOME Single-Cell Kits.	Early-Access	-

\*Dependent on workflow option used

For a complete list of services, products, and pricing, email a member of our team, [info@bioskryb.com](mailto:info@bioskryb.com)

**BioSkryb**  
GENOMICS

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