

## Unlock Your Discovery Potential with Single-Cell Whole Genome Amplification

### ResolveDNA Whole Genome Amplification System



#### Enables whole genome sequencing from a single cell

Whole genome amplification from single cells or low-input (4 pg to <10 ng) DNA samples



#### Provides industry-leading genomic coverage

Leverages a novel patented technology, primary template-directed amplification (PTA)<sup>1</sup>, to dramatically increase genomic capture and coverage to 97%



#### Results in unprecedented single nucleotide variant (SNV) calling resolution

Reduces biases, experimental artifacts, and poor reproducibility associated with other whole genome amplification methods<sup>2</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>3</sup>



#### Scales to experiment size

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



#### Bioinformatics analysis available with BaseJumper<sup>®</sup>

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. Data on file

## Assay Performance

ResolveDNA WGS Performance	
Characteristic	Observed Values
Accuracy	99.99%
Sensitivity	96.90%
Specificity	99.99%
Allelic Balance	93.80%
Genomic Coverage	97.50%

**Figure 1: Assay Performance Characteristics.**

Analysis of NA12878 single cells prepared with ResolveDNA Whole Genome Single-Cell Core Kit versus gold standard reference sequence. WGS: whole genome sequencing.

## A Revolution in Resolution From Each Cell

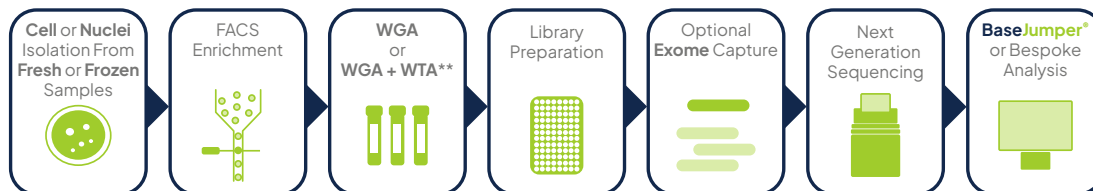
### DNA

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

**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 Core 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)

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GENOMICS

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TAS\_044.5 | 08/2024

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