

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)¹, 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 methods²



Fits into established laboratory protocols

Compatible with various methods of single-cell singulation, sequencing platforms, and downstream applications, including whole exome and panel-based sequencing³



Scales to experiment size

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



Bioinformatics analysis included

Bioinformatics analysis and data visualization through **BaseJumper[®]** bioinformatics platform



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.

ResolveServicesSM

Custom-built 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 or targeted protein analysis
- Library preparation for downstream applications
- Analysis using our bioinformatics platform, **BaseJumper[®]**, or bespoke computational analysis

Products

Codes	Product	Description
100956	ResolveOME TM 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 TM 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.

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GENOMICS

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