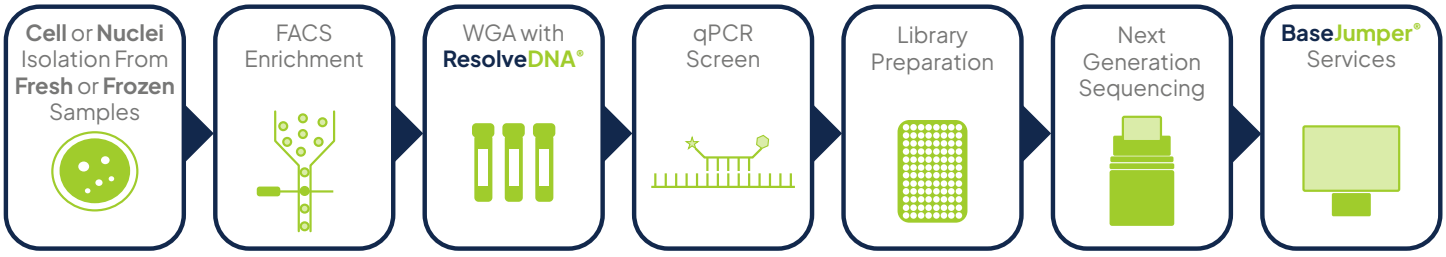
ResolveSEQ ScreenHT

BioSkryb GENOMICS

Focusing single-cell whole genome sequencing and analysis resources on the cells that matter the most.

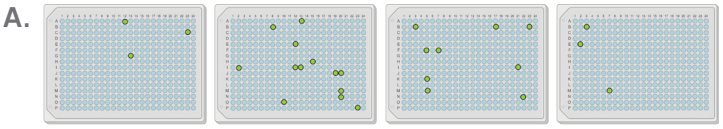
Introducing ResolveSEQ ScreenHT, a service offering from BioSkryb Genomics

ResolveServices℠ offers comprehensive whole genome analysis of individual cells that contain your single nucleotide variant (SNV) of interest. This approach leverages whole genome amplification of individual cells in wells using ResolveDNA® followed by a high-throughput qPCR assay to identify SNV-positive cells. Cells that are positive for your SNV of interest move on to library preparation, whole genome sequencing (WGS), and analysis. The ResolveSEQ ScreenHT workflow (below) directs sequencing and analysis resources to the single cells that are most important for your research project.

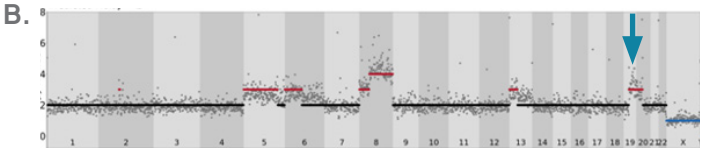


FACS: Fluorescence-Activated Cell Sorting, WGA: Whole Genome Amplification

Proof of Principle Experiment



qPCR screen for *FLT3* K841 SNV, 28/1536 positive cells



Screen for drug-resistant cells and reveal unique mutations. A defined mixture of quizartinib-resistant MOLM-13, parental MOLM-13, and Detroit 532 cells were taken through the ResolveSEQ ScreenHT workflow. **A.** 28 of 1536 cells were identified as quizartinib-resistant cells in a qPCR screen for *FLT3* N841K. **B.** WGS of a K841–positive cell shows a 19q gain (arrow) unique to quizartinib-resistant cells. This data can define genomic profiles and help reveal mechanisms for drug resistance.

Panel A was created with BioRender.com

Example Applications

qPCR screen for…	WGS of qPCR-positive cells to…
On-target CRISPR base editing	Create comprehensive off-target edit profiles
Pre-malignancy variant	Establish co-variants, build phylogenies, and help define transformation mechanisms
Drug resistant variant	Detect co-variants and help define mechanisms of drug resistance

Ready to focus your resources on the cells that matter the most? Scan the QR code below to learn more, or visit bioskryb.com/resolveservices

All data on file.

TAS_095 | 08/2025

For Research Use Only. Not for Use in Diagnostic Procedures.