

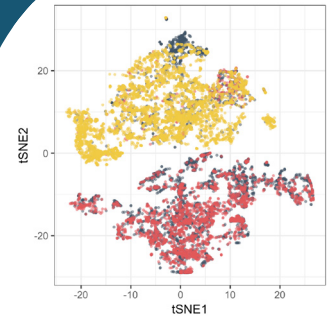
COMING SOON



mission bio

# MISSION BIO TAPESTRI™ SINGLE-CELL DNA AML KIT

Enabling better understanding of heterogeneity in Acute Myeloid Leukemia (AML)



The Mission Bio Tapestri Single-Cell DNA AML Kit allows researchers to advance their understanding of the genetic heterogeneity underpinning acute myeloid leukemia (AML) by targeting 19 genes with 40 amplicons for single-cell DNA sequencing. Covering a combination of oncogenes and tumor suppressor genes, this panel is designed to cover some of the most commonly mutated genes associated with AML. This kit comes with reagents and consumables optimized to run on the Mission Bio Tapestri Instrument.

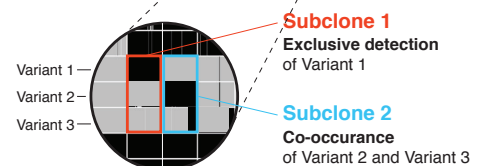
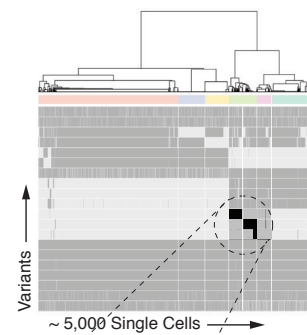
### Customizable content and scalable platform leveraging droplet microfluidics

Based on novel droplet microfluidics, the Mission Bio Tapestri Platform transforms your ability to accurately characterize clonal heterogeneity in complex diseases. Single-cell DNA analysis can be done rapidly and economically with unprecedented throughput of up to 10,000 cells per run. Additionally, content can be customized to target your specific regions of interest.

### High sensitivity to reveal true heterogeneity

The Tapestri Platform revolutionizes the capability to directly assess the clonal architecture of a sample with detection of mutation co-occurrence patterns. Rather than inferring variants that co-occur within a subclone from comparable bulk variant allele frequencies, single-cell resolution uncovers the true distribution of genotypes and their segregation patterns across subclones.

Gene			
ASXL1	JAK2	SF3B1	IDH2
DNMT3A	KIT	SRSF2	RUNX1
EZH2	KRAS	TP53	PTPN11
FLT3	NPM1	U2AF1	IDH1
GATA2	NRAS	WT1	



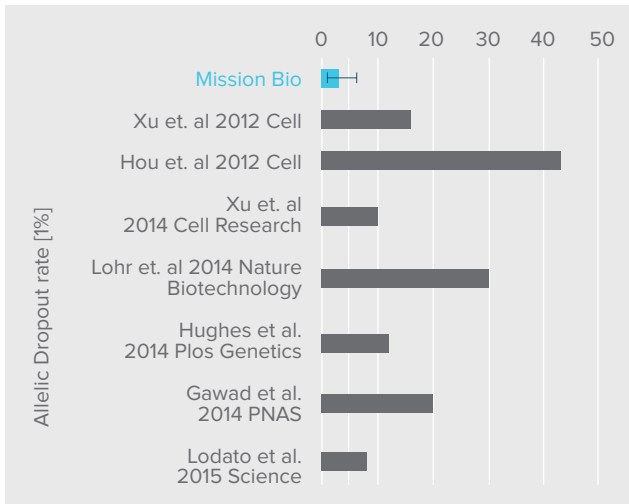
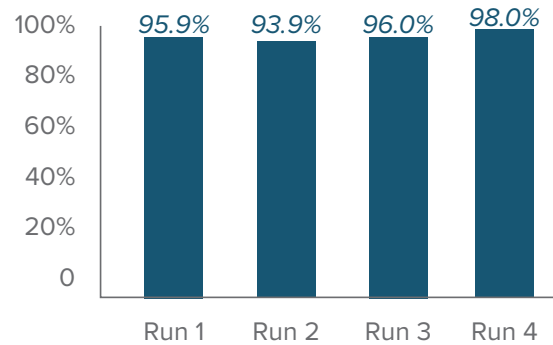
Variant	Subclone 1	Subclone 2	Single cell VAF	Bulk VAF
Variant 1	MUT	WT	6.9%	6.7%
Variant 2	WT	MUT	7.8%	7.2%
Variant 3	WT	MUT/WT	1.2%	undetected

Moving precision medicine forward.

## High confidence with high panel uniformity and low allele dropout

With optimized primer design to ensure comprehensive and uniform coverage, Mission Bio Tapestri Single-Cell DNA AML Kit provides high coverage uniformity, with control runs demonstrating an average coverage uniformity of >95%. Additionally, the panel includes 10 amplicons to assess allele dropout. These amplicons are designed to cover known heterozygous SNVs across a variety of populations. Across control runs, the Tapestri Platform demonstrates an average low allele dropout rate of <5%.

Coverage Uniformity  
(% amplicons covered at 0.2x mean coverage)



## Simplified workflows with dedicated support

The Tapestri Platform fits into existing NGS workflows seamlessly. Configured kits and reagents are optimized with a robust protocol to run with the Tapestri Instrument, removing the headache of homebrew methods. Libraries prepared using the Tapestri Platform are compatible with Illumina Sequencers. Tapestri software for data analysis and visualization can then be used to interpret this novel data, with dedicated support teams to help along the way.

## How the Tapestri Platform Works



## MISSION BIO TAPESTRI PLATFORM COMPONENTS

- Mission Bio Tapestri Instrument
- Mission Bio Tapestri Single-Cell AML Kit (includes reagents, cartridges, and gaskets)
- Mission Bio Tapestri Single-Cell Custom DNA Kit

## CONTACT US

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