



Tapestri[®] Single-Cell DNA Custom Panels

The only customizable single-cell DNA targeted solution for high impact applications

Mission Bio Tapestri Single-Cell DNA Custom Panels offer the only customizable single-cell targeted DNA solution that allows scientists to resolve the clonal heterogeneity that matters. With droplet microfluidics to access DNA, unique biochemistry to barcode and target SNVs, indels, CNVs, and LOH, and Tapestri Designer to design to regions of interest, sensitive detection of subclones with Tapestri Single-Cell DNA Custom Panels is easier than ever. Pair DNA custom panels with custom oligo-conjugated antibodies for protein detection to take your data to the next multi-omics level.



Custom, Targeted Approach With Maximum Flexibility

From discovery to validation, Tapestri Single-Cell DNA Custom Panels offer unprecedented flexibility. Targeting specific SNVs, indels, CNVs, and LOH at the single-cell level allows you the flexibility to tailor time and sequencing budget and capacity (Table 1) to the most relevant areas of heterogeneity for your research. Experiments are run and analyzed at a fraction of time and cost when comparing to whole genome or whole transcriptome single-cell sequencing. The flexibility that Tapestri Designer gives in target number and the flexibility that the Tapestri Instrument gives in cell throughput allows you to design an experiment to match your budget and research needs (Table 1).

Easy to Customize With Tapestri Designer

The simple intuitive interface of Tapestri Designer allows you to complete custom designs with 3 easy steps (Figure 1). Custom designs are typically completed within minutes. Browse through panel content in our catalog and pre-designed panels to get started or start from scratch using your gene list of interest.

*Approximate number of sequencing reads recommended (80x average coverage per amplicon per cell and 2x150bp paired-end sequencing)			
	Number of amplicons in panel		
	50	150	300
1,000 Cells	4M	12M	24M
5,000 Cells	20M	60M	120M
10,000 Cells	40M	120M	240M

Table 1. Flexible range of sequencing depths to match your experimental needs.

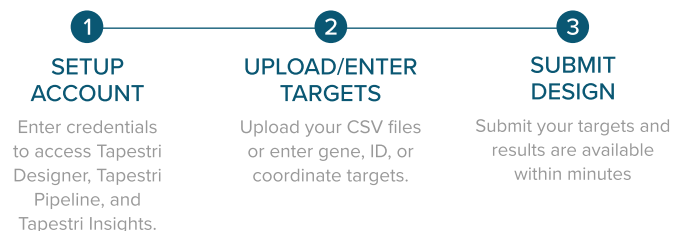


Figure 1. Three simple steps to create custom panels

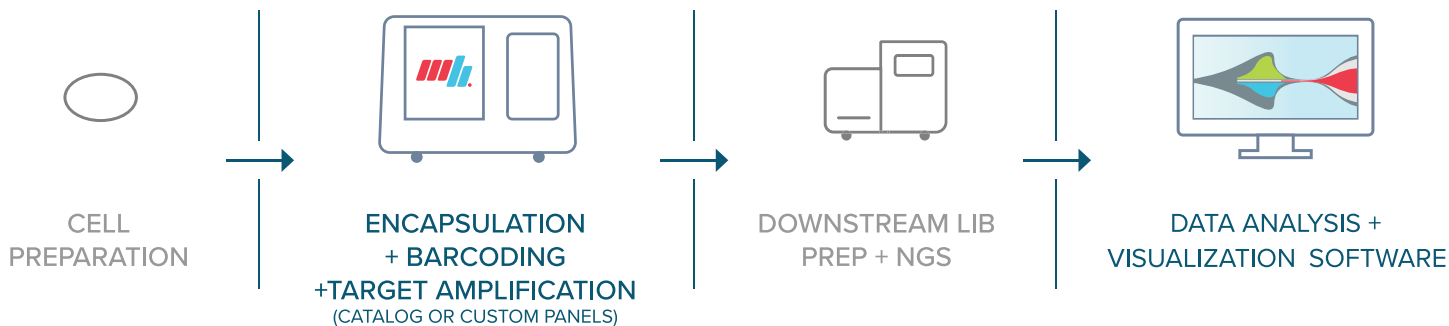


Figure 2. Tapestri Workflow Overview

Confidence in Quality and Performance

Tapestri Single-Cell DNA Custom Panels leverages our multidisciplinary team with decades of expertise in primer design algorithms and multiplex PCR biochemistry optimized for the Tapestri Platform. Researchers can expect similar high design coverage and high panel uniformity that is typical of Tapestri Single-Cell DNA Catalog Panels (Figure 3).

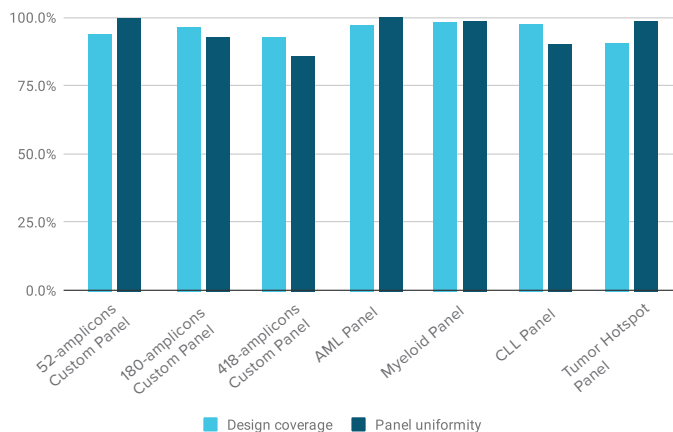


Figure 3. Observed Panel Performance for Tapestri Single-Cell DNA Custom and Catalog Panels. Design coverage is percentage of targets designed of targets submitted. Panel uniformity is the percentage of targets that meet at least 20% of the average depth of coverage.

A Scalable End-To-End Workflow

To design a custom panel, start with gene names, SNP IDs, or genomic coordinates and submit them through Tapestri Designer. Additionally, a variety of Illumina sequencers are compatible with the Tapestri Workflow (Table 2), and analysis and visualization are made easy using Tapestri Pipeline and Insights Software.

Typical design time:	Within minutes
Multiplex level:	20-1000 amplicons
Compatible Illumina sequencers:	MiSeq, NextSeq 550, HiSeq 2500, HiSeq 4000, NovaSeq 6000
Compatible sample types:	Cell lines, PBMCs, bone marrow, nuclei from fresh frozen solid tissue
Variant types:	SNVs, indels, CNVs, and LOH

Table 2. Features of Tapestri Single-Cell DNA Custom Panels

TAPESTRY PLATFORM COMPONENTS	PART NUMBER	CONTACT US
Tapestri Instrument	191335	Mission Bio, Inc. 6000 Shoreline Court, Suite 104 South San Francisco, CA 94080 + 1.415.854.0058 info@missionbio.com www.missionbio.com
Tapestri Single-Cell DNA Cartridge Kit	046459	
Tapestri Single-Cell DNA Catalog Panels	missionbio.com/panels/catalog-panels	
Tapestri Single-Cell DNA Custom Panel Kits	missionbio.com/panels/custom-panels	

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