

# Tapestri Single-Cell DNA MCL Panel

Advance your understanding of the genetic heterogeneity underpinning mantle cell lymphoma (MCL) by targeting **8 genes with 34 amplicons** for single-cell 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 MCL.

## Panel Specifications

Metric	Value
Number of genes	8
Number of targets	53
Target type	SNVs
Number of amplicons	34
Coverage	100%
Panel Size	6.5 kb
Amplicon length	175 - 275 bp
Panel uniformity: % of amplicons >0.2x mean	>=90%
Amplicon completeness: % of amplicons in >80% of cells	>=80%
Cell completeness: % of cells with >80% amplicons above 10 reads	>=80%
Verified NGS systems	MiSeq, NextSeq, HiSeq, NovaSeq
Recommended number of reads per sample	~20 M

Table 1: Panel specifications.

## 8-GENE MCL PANEL

ATM	CCND1	NOTCH1	UBR5
BIRC3	KMT2D	TP53	WHSC1

Table 2: Panel gene targets.

## Panel Targets

Gene	Exon	Protein-level Variants	cDNA Variants
ATM	7	R248	
	8	I323	
	27	Q1361	
	32	R1618	
	39	E1959	
	46	R2263	
	50	D2448; S2489	
	55	K2717	

Gene	Exon	Protein-level Variants	cDNA Variants
ATM	56	Q2730	
	63	R3008	
BIRC3	7	S441	
	8	L444	
	10	Q552; C581	
CCND1	1	I13; P18; E36; Y44; C47	
	4	P199	

Table 3: Panel content. Exon numbers are based on canonical isoform provided by NCBI's Reference Sequence database

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## Panel Targets (cont'd)

Gene	Exon	Protein-level Variants	cDNA Variants
KMT2D	21	E1729	
	33	R2771	
	34	Q3312; S2839; Q2819	
	39	Q3604	
	48	R5225; R5048	
	49	A5272	
	51	Q5365	
NOTCH1	5	D259	
TP53	5	R175; V147	
	6	Y220; V216; R196; I195	
	7	E258; R248; Y236	
	8	R280	
	9	Q317	
UBR5	41	H1932	
	46	E2194	
	58	W2715	
	Intron		c.8102-1G>A
WHSC1	18	E1099	
	19	T1150	

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