

# Tapestri Single-Cell DNA DLBCL Panel

Advance your understanding of the genetic heterogeneity underpinning diffuse large b-cell lymphoma (DLBCL) by targeting **26 genes with 104 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 DLBCL

## Panel Specifications

Metric	Value
Number of genes	26
Number of targets	278
Target type	SNVs, indels
Number of amplicons	104
Coverage	87.45%
Panel size	19.6 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	~62 M

**Table 1: Panel specifications.**

## 26-GENE DLBCL PANEL

ATM	CREBBP	MYD88	STAT6
B2M	EP300	NOTCH1	TET2
BCL2	EZH2	NOTCH2	TNFAIP3
BRAF	FOXO1	PIK3CD	TNFRSF14
CARD11	GNA13	PIM1	TP53
CD79A	KMT2D	PTEN	-
CD79B	MYC	SOCS1	-

**Table 2: Panel gene targets.**

## Panel Targets

Gene	Exon	Protein-level Variants	cDNA Variants
ATM	10	Q466	D52
	12	P604	D816
	17	F858	D52
	20	H996	D816
	21	M1040	D52
	28	H1380; I1407	D816
	29	K1454; F1463; Y1475	D52
	36	N1801	D816

Gene	Exon	Protein-level Variants	cDNA Variants
ATM	42	G2063	
	52	Q2593	
	63	R3008; G3051	
B2M	1	M1; L7; L12	c.37_40delCTCT
	2	C45	c.302_303delGT
BCL2	2	A2; H3; A4; G5; R6; T7; K17; K22; G33; Q118; L119; A131; E136; N163; I173	
	3	S213	

**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
BCL2	4	A45	
	5	V134	
BRAF	11	G469	
	15	D594; V600	
CRD11	4	E93; F115; S116; T117	
	5	G123; G126; T128; F130; R149	
	6	D230; K238; ; L251; V266	
	7	R309	
	8	D357; M360; R379	c.1030_1032delAAG
CD79A	Intron		c.568-2A>G
CD79B	2		c.102_105delGTAC
	4	D159	
	5	E191; E192; Y196	
	6	L199	c.619_620insT; c.612_613insA; c.596delT
	Intron		c.550-1G>A
CREBBP	16		c.3250_3250+1insA
	17	Q1104	
	24	V1371	
	25	C1408	
	26	R1446; Y1450	
	27	I1483; F1484; P1488; W1502; Y1503	
	29		c.4792_4793insA
	Intron		c.4394+1G>T
	EP300	5	L415
Intron			c.2379+2T>G
EZH2	6	D183	
	16	E645; Y646	
	18	A682	
	19	M706	
FOXO1	2	N216; A458; S502	

Gene	Exon	Protein-level Variants	cDNA Variants
GNAI3	1	S31	
	2	I158	
	Intron		c.561+2T>A
KMT2D	6	G236	
	10	S504; P511	
	14	G1389	
	15	H1453R	c.4395dupC
	19	R1615	
	31	R2471; R2645	c.6957_6964del- GGAGTTAA; c.6285_6348del
	32	R2734	
	34	R2915	
	39	Q3971; G4046	c.11065dupG
	44	W4730	
	48	L4993; G5039	c.15029delC
	49	R5282	
	Intron		c.14515+1G>C
	MYC	1	N9
2		E39; L40; P57; T58; T95; S203; E257	
3		H307	
MYD88	3	S219	
	4	S243	
	5	L265	
NOTCH1	5	D259	
NOTCH2	34	E2206	c.6908_6909delCC; c.6876_6877insAG
PIK3CD	23	E1045	
PIM1	4	Q127; E135; S146; W149; L182	c.402delG
PTEN	1	S10	c.6_27del
	6	R173	

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## Panel Targets (cont'd)

Gene	Exon	Protein-level Variants	cDNA Variants
PTEN	7	R233	
	8	K342	
SOCS1	2	S205; S206; F207; Q210	
STAT6	12	D419	
TET2	3	Q743; P874; Q886	c.1342delG; c.2741_2746delTTGC- TCinsG; c.2752_2753delIAG
	11	R1516	
	Intron		c.3954+2T>G
TNFAIP3	2		c.211_212delIAG; c.262_263insA
	3		c.301delG; c.397_398insA
	4		c.533_534delAC
	7	R439	c.1363delG
	9		c.2290delG
	Intron		c.295+2T>G
TNFRSF14	1		c.43_44insC
	3	Y83	
	6		c.608_612delGGTGG
	Intron		c.69+2T>C
TP53	4	K132; A138; P142; R158	
	5	C135; C141; V143; L145; W146; D148; S149; V157; I162; Q167; E171; V173; R175; C176; H179	
	6	H193; I195; R196; Y205; D208; T211; R213; S215; 216; V218; Y220; E221	c.455delC; c.577_585delCATCT- TATC
	7	C229; Y234; M237; N239; S240; G244; G245; M246; R248; R249; I251; I254; L257; D259	
	8	R280; R282; R283; E285; E286; R290; E294; E298; K305	c.862_863delAA
	10	E358	
	11	D352	

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