

Lymphoid Panel

The **oncoReveal® Lymphoid Panel** is a robust NGS assay that interrogates 84 genes of interest most relevant to lymphoid cancers. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry, designed by Pillar's AI-empowered VersaTile™ Primer Design tool, for efficient single-tube target enrichment.

oncoReveal® Lymphoid Panel (84 genes)

ABL1	CALR	CRLF2	GNA13	IRF4	MYC	PIK3CD	RHOA	STAT3	TP53
ARID1A	CARD11	CXCR4	GPR34	JAK1	MYD88	PIM1	RPS15	STAT5B	TRAF2
ATM	CCND1	DNMT3A	HRAS	JAK2	NFKBIE	PLCG1	RUNX1	STAT6	XPO1
B2M	CCND3	EP300	ID3	JAK3	NOTCH1	PLCG2	SAMHD1	TBL1XR1	
BCL2	CD28	EZH2	IDH1	KLF2	NOTCH2	POT1	SETD2	TCF3	
BCL6	CD79A	FAS	IDH2	KMT2D	NRAS	PRDM1	SF3B1	TET2	
BIRC3	CD79B	FBXW7	IKZF3	KRAS	NSD2	PTEN	SMARCA4	TET3	
BRAF	CDKN2A	FLT3	IL7R	MAP2K1	PAX5	PTPN11	SMARCB1	TNFAIP3	
BTK	CREBBP	FOXO1	INO80	MEF2B	PHF6	PTPRD	SOC1	TNFRSF14	

Genes marked in green indicate full CDS coverage

Simple NGS library prep workflow

Maintain control of samples and results with single-tube, tiled amplification that can be performed in-house by any NGS lab

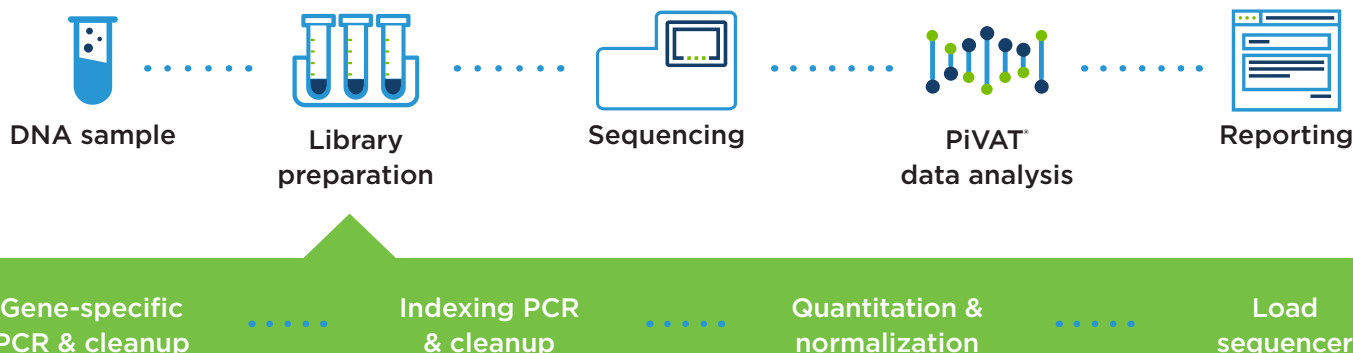
Sensitive and robust chemistry

Achieve variant detection as low as 2% VAF[†] even with limited DNA input or poor sample quality

Reduced fully-loaded lab costs

Improve lab efficiency and reduce “no calls”, repeat testing, and difficult interpretation decisions

Simple, one-day workflow



[†] VAF, variant allele frequency
For Research Use Only. Not for use in diagnostic procedures.

Panel specifications*

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	84/1046
Number of targets	Full CDS coverage of 29 genes, hotspots in 55 additional genes; 222kb total size
Variant types	SNVs, indels
Average amplicon size	212bp
Recommended DNA input range	20ng to 60ng
Sample types	DNA from whole blood, PBMCs, WBCs, or bone marrow
Mapping rate	99.2% +/-0.79%
% on-target aligned reads	94.8% +/-1.93%
Coverage uniformity (% targets with >0.2X mean coverage)	88.0% +/-0.81%
Recommended Reads Per Sample	~6 million paired-end reads
Total assay time (from DNA to sequencer)	<8 hours

* Mapping rate, percentage of on-target aligned reads, and coverage uniformity metrics are based on internal testing performed using reference standard materials

Ordering information

Select the panel AND one of the index kit options listed below.

Panel	Part number
oncoReveal® Lymphoid Panel (24 reactions)	HDA-LM-1001-24

Pillar Index Kit options	Reactions	Part number
Pillar Custom Index Primers Kit A	32 Combinations, 96 reactions	IDX-PI-1001-96
Pillar Custom Index Primers Kit D	96 Combinations, 192 reactions	IDX-PI-1004-192

TO ORDER OR LEARN MORE:
pillarbiosci.com

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BIOSCIENCES

Pillar Biosciences, Inc.
9 Strathmore Rd
Natick, MA 01760
(800) 514-9307
info@pillarbiosci.com