

oncoReveal® Lymphoid Panel

The Pillar oncoReveal® Lymphoid Panel is a robust NGS research 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 AI-empowered VersaTile™ Primer Design tool, for efficient single-tube target enrichment.

oncoReveal® Lymphoid Panel (84 genes)

<i>ABL1</i>	<i>CALR</i>	<i>CRLF2</i>	<i>GNA13</i>	<i>IRF4</i>	<i>MYC</i>	<i>PIK3CD</i>	<i>RHOA</i>	<i>STAT3</i>	<i>TP53</i>
<i>ARID1A</i>	<i>CARD11</i>	<i>CXCR4</i>	<i>GPR34</i>	<i>JAK1</i>	<i>MYD88</i>	<i>PIM1</i>	<i>RPS15</i>	<i>STAT5B</i>	<i>TRAF2</i>
<i>ATM</i>	<i>CCND1</i>	<i>DNMT3A</i>	<i>HRAS</i>	<i>JAK2</i>	<i>NFKBIE</i>	<i>PLCG1</i>	<i>RUNX1</i>	<i>STAT6</i>	<i>XPO1</i>
<i>B2M</i>	<i>CCND3</i>	<i>EP300</i>	<i>ID3</i>	<i>JAK3</i>	<i>NOTCH1</i>	<i>PLCG2</i>	<i>SAMHD1</i>	<i>TBL1XR1</i>	
<i>BCL2</i>	<i>CD28</i>	<i>EZH2</i>	<i>IDH1</i>	<i>KLF2</i>	<i>NOTCH2</i>	<i>POT1</i>	<i>SETD2</i>	<i>TCF3</i>	
<i>BCL6</i>	<i>CD79A</i>	<i>FAS</i>	<i>IDH2</i>	<i>KMT2D</i>	<i>NRAS</i>	<i>PRDM1</i>	<i>SF3B1</i>	<i>TET2</i>	
<i>BIRC3</i>	<i>CD79B</i>	<i>FBXW7</i>	<i>IKZF3</i>	<i>KRAS</i>	<i>NSD2</i>	<i>PTEN</i>	<i>SMARCA4</i>	<i>TET3</i>	
<i>BRAF</i>	<i>CDKN2A</i>	<i>FLT3</i>	<i>IL7R</i>	<i>MAP2K1</i>	<i>PAX5</i>	<i>PTPN11</i>	<i>SMARCB1</i>	<i>TNFAIP3</i>	
<i>BTK</i>	<i>CREBBP</i>	<i>FOXO1</i>	<i>INO80</i>	<i>MEF2B</i>	<i>PHF6</i>	<i>PTPRD</i>	<i>SOCS1</i>	<i>TNFRSF14</i>	

Genes highlighted in orange 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

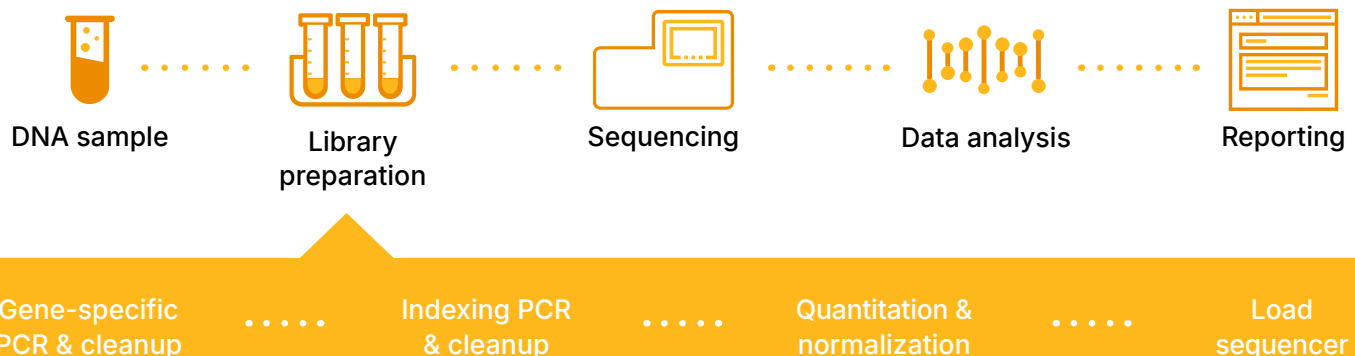
Sensitive and robust chemistry

Achieve variant detection below 5% 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



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	213 bp
Recommended DNA input range	20ng to 60ng
Sample types	DNA from whole blood, PBMCs, WBCs, bone marrow, or FFPE
Mapping rate	>97.3%
% on-target aligned reads	>83.2%
Coverage uniformity (% targets with >0.2X mean coverage)	>85.9%
Recommended Reads Per Sample	~6 million paired-end reads
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina sequencers

* Mapping rate, percentage of on-target aligned reads, and coverage uniformity metrics are based on internal testing performed using reference standard materials
PBMCs = Peripheral blood mononuclear cells; WBCs=White blood cell

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

For more information go to:
illumina.com

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