PILLAR BIOSCIENCES

illumina®

oncoReveal™ Myeloid Panel

The **oncoReveal™ Myeloid Panel** is a robust NGS assay that interrogates 58 genes of interest* most relevant to myeloid cancer. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

oncoReveal™ Myeloid Panel (58 genes)

ABL1	BRAF	CEBPA	ETV6	HRAS	KDM6A	NPM1	PTEN	SMC1A	TP53
ANKRD26	CALR	CSF3R	EZH2	IDH1	KIT	NRAS	PTPN11	SMC3	U2AF1
ASXL1	CBL	CUX1	FLT3	IDH2	KMT2A	PDGFRA	RAD21	SRSF2	WT1
ATRX	CBLB	DDX41	GATA1	IKZF1	KRAS	PFH6	RUNX1	STAG1	ZRSR2
BCOR	CBLC	DNMT3A	GATA2	JAK2	MPL	PIGA	SETBP1	STAG2	
BCORL1	CDKN2A	ETNK1	GNAS	JAK3	NF1	PPM1D	SF3B1	TET2	

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 as low as 1% VAF† without UIDs‡ 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

DNA sample → Library preparation → Sequencing → Data analysis → Reporting

Library preparation: Gene-specific PCR & cleanup → Indexing PCR & cleanup → Quantitation & normalization → Load sequencer

* Content is based on data from ongoing clinical trials along with sources that include the College of American Pathologists (CAP), the Association for Molecular Pathology (AMP), the National Comprehensive Cancer Network (NCCN), and the Catalog of Somatic Mutations in Cancer (COSMIC) database.

‡ UID, unique ID; also known as unique molecular ID (UMI); † VAF, variant allele frequency

oncoReveal™ Myeloid Panel

Panel specifications*

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	58/766
Number of targets	Full CDS coverage of 18 genes plus hotspots on 40 additional genes; ~121.6kb total size
Variant types	SNVs, indels, ITD (internal tandem duplicates)
Average amplicon size	215bp
Recommended DNA input range	10ng to 80ng (20ng recommended)
Sample types	Whole blood, PBMCs
Mapping rate	99.6% ± 0.2%
% on-target aligned reads	92.0% ± 5.3%
Coverage uniformity (% targets with >0.2X mean coverage)	96.8% ± 1.0%
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

Ordering information

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

Panel	Part number
oncoReveal™ Myeloid Panel (24 reactions)	HDA-MY-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

5200 Illumina Way
San Diego, CA 92122 USA
1.858.202.4500
info@illumina.com