# SOPHiA DDM™ Lymphoma Solution

The genomic application that streamlines the interpretation of complex genomic variants with different lymphoma types, by combining a capture-based target enrichment kit with the analytical performance and advanced features of the SOPHiA DDM™ Platform.

### **Main Features**

SOPHiA DDM<sup>®</sup> Lymphoma Solution covers **54 relevant genes** associated with many B- and T-Cell Lymphomas such as Diffuse Large B-Cell, Follicular, Mantle Cell and Burkitt Lymphomas. Probe design is optimized to guarantee high on-target rate and coverage uniformity even in GC-rich regions. The technical limitations related to the analyses of key biomarkers such as *CREBBP*, *EP300* and *EZH2* are addressed. For specific needs, the gene content can be fully customized.

Gene Panel	Variants Called	Recommendations	Wet Lab
ARID1A, ATM (57-63), B2M, BCL2, BCL6 (8,9),	SNVs	Starting material	Day 1:
BIRC3 (all,ex.2), BRAF (15), BTK (15), CARD11 (4-9),	Indels	50ng DNA	Library Preparation
CCND1 (1), CCND3, CD58, CD79A (4,5), CD79B (5,6),	CNVs		
CHD2, CDKN2A, CDKN2B, CIITA, CREBBP (27-30),	Gene amplifications	Sample type	Day 2:
CXCR4, EP300, EZH2 (16,18), FBXW7 (9,10), FOXO1,	'	FFPE, blood and bone marrow	Capture and Sequencing
GNA13, ID3, IRF4, KMT2A, KMT2D, KRAS (2,3),		Samples per run / Sequencer <sup>1</sup>	Total library preparation time:
MAL, MEF2B, MYC, MYD88, NFKBIE, NOTCH1 (34),		8 on MiSeg <sup>®</sup> v3 (2x300bp), blood samples	1.5 days
NOTCH2 (26-28,34), NRAS (2,3), PAX5, PIM1, PLCG2		4 on MiSeg* v2 (2x150bp), FFPE samples	1.5 days
(17-23), POT1, PRDM1, PTEN (5), PTPN11, REL,		36 on NextSeq* 500/550 Mid-Output (2x150bp),	
SF3B1 (14,15), SOCS1, STAT6 (9-14), TCF3 (17-19),		blood and FFPE samples	
TNFAIP3, TNFRSF14, TP53, XP01 (15-18)		blood and TTT E samples	

## **Analytical Performance**

The SOPHiA DDM™ Platform analyzes complex NGS data by detecting, annotating and pre-classifying genomic alterations such as SNVs and Indels in 54 genes, and gene amplifications in 47 genes of the panel to support experts with their data-informed decision making.

#### Analysis time from FASTQ: from 4 hours<sup>2</sup>

Observed	l (%) Lower 95% CI
100	92.5
100	99.9
100	99.9
98	87.1
90.6	
97.2	
	100 100 100 98 90.6

The values have been calculated based on SNVs and Indels in 28 FFPE samples on MiSeq.

## One Simple Intuitive Platform: Beyond Analytics

#### Accelerated assessment and reporting of genomic variants

The platform helps users to immediately focus on relevant genomic alterations. Several features facilitate their interpretation process:

- Hotspot screening
- · Algorithm-supported variant pre-classification
- Fully customizable filters
- · Comprehensive report

#### Confident decision-making

The OncoPortal\* Plus add-on module for SOPHiA DDM\* Platform matches tumor molecular profiles with clinical associations and available clinical trials, leveraging expertly curated evidence powered by JAX-CKB. After interpretation, the flexible reporting tools enable users to prepare push-button, comprehensive reports that are customizable to their needs.

#### Global support at every step

We offer local support anywhere in the world. Our dedicated bioinformaticians help save time and resources, ensuring fast resolution of workflow disruptions. In addition, our MaxCare Program provides assistance with assay set up for fast and worry-free transition to routine testing.

#### Access to the SOPHiA GENETICS Community

Through the SOPHiA DDM™ Platform genomics experts from hundreds of healthcare institutions interpret their findings and flag the pathogenicity level of variants. This highly valuable information enriches the variant knowledge base and is safely shared among the members of the community, supporting their decision-making process for research purposes.

#### **Product code:**

BS0116ILLRSMY103

CNVs, copy number variants; FFPE, formalin-fixed paraffin-embedded; Indels, insertions/deletions; NGS, next-generation sequencing; SNVs, single nucleotide variants

1. Number of samples per run is recommended for 1000x coverage depth. Sequencing recommendations and pipelines for other sequencing kits and instruments are available upon request. Delivery time may vary according to the selected sequencing platform.

- . Analysis time may vary depending on the number of genes, samples multiplexed, and server load.
- Product code for SOPHiA GENETICS™ Universal Library Prep (ULP), replacing BS0116ILLRSMY05.

OncoPortal "Plus is for Clinical Decision Support Use Only. Not intended as a primary diagnostic tool

All third party trademarks listed by SOPHIA GENETICS remain the property of their respective owners. Unless specifically identified as such, SOPHIA GENETICS' use of third party trademarks does not indicate any relationship, sponsorship, or endorsement between SOPHIA GENETICS and the owners of these trademarks. Any references by SOPHIA GENETICS to third party trademarks is to identify the corresponding third party goods and/or services and shall be considered nominative fair use under the trademark law.