SOPHiA GENETICS™

Accelerate your analysis with pre-designed and tested panels

COMMUNITY PANELS FOR BLOOD CANCERS

HIGHLIGHTS

- Uniform coverage of target regions
- High quality probe design to optimize on-target rate
- Customizable gene content developed with genomic experts in hematological malignancies
- Simple and reliable data analysis and interpretation

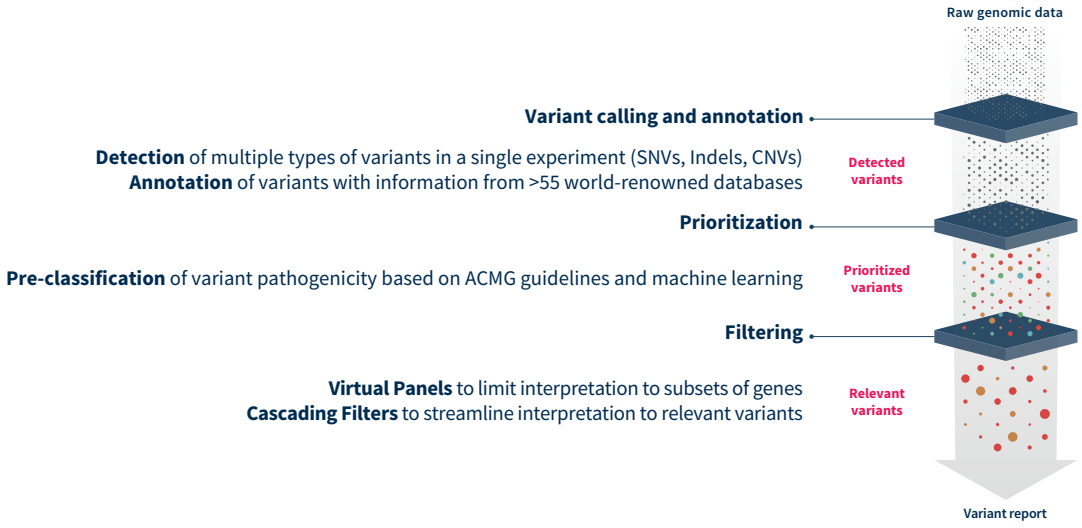
Designing, creating, and testing a new gene panel takes considerable time and effort. **SOPHiA GENETICS™ Community Panels for Blood Cancers are targeted, capture-based NGS panels** developed and tested by genomic experts to minimize set-up challenges and accelerate your research. These panels cover a wide range of genes related to Hematological Malignancies and are fully customizable, with the flexibility to add or remove genes to meet your unique requirements.

In combination with the analytical and interpretation capabilities of the SOPHiA DDM™ Platform, our Community Panels help you to gain accurate and cost-effective insights from your target regions of interest.

DNA EXTRACTION › CAPTURE-BASED LIBRARY PREPARATION › SEQUENCING › ANALYSIS › VARIANT STATUS REPORT GENERATION

For a fast and worry-free transition to routine analysis, the **SOPHiA GENETICS™ Set Up Program** provides full set-up assistance.

The SOPHiA GENETICS™ **Community Panels** leverage on the SOPHiA DDM™ Platform to ensure accurate variant detection and streamlined variant assessment.



Discover our Community Panels for Blood Cancers in this flyer.

Panel name	Associated disorders*	Genes covered
CCLL_A_v3	Chronic Lymphocyte Leukemia (CLL)	**23 genes:** *ATF1, ATM, BCL2, BIRC3, BTK, CDK4, CUL4A, CXCR4, DLEU1, EGR2, FBXW7, KLF5, KRAS, MYD88, NFKBIE, NOTCH1, PLCG2, POT1, PROZ, RB1, SF3B1, TP53, XPO1* *+ IGH locus rearrangements*
CLYMP_B_v1	Lymphoid Disorders	**33 genes:** *ARID1A, B2M, BCL2, BIRC3, BRAF, BTK, CARD11, CCND1, CD79A, CD79B, CDKN2A, CREBBP, CXCR4, EP300, EZH2, FOXO1, ID3, KLF2, MEF2B, MYC, MYD88, NFKBIE, NOTCH1, NOTCH2, PLCG2, PTPRD, SF3B1, STAT6, TCF3, TNFAIP3, TP53, TRAF2, XPO1*
CMYS_B_v1	Myeloid Disorders	**35 genes:** *ABL1, ASXL1, BCOR, BRAF, CALR, CBL, CEBPA, CSF3R, DNMT3A, ETV6, EZH2, FLT3, HRAS, IDH1, IDH2, JAK2, KIT, KRAS, MPL, MYD88, NOTCH1, NPM1, NRAS, PPM1D, PTPN11, RUNX1, SETBP1, SF3B1, SRSF2, STAG2, TET2, TP53, U2AF1, WT1, ZRSR2*
CMM_A_v1	Multiple Myeloma (MM)	**43 genes:** *ACTG1, ATM, BIRC2, BRAF, CCND1, CDKN1B, CDKN2C, CKS1B, CRBN, CYLD, DIS3, DUSP2, EGR1, FAT3, FGFR3, FMN2, HIST1H1E, HUWE1, IRF4, KLHL6, KRAS, LTB, MAF, MAX, MYC, NF1, NFKB2, NRAS, PPM1D, PRDM1, PRKD2, PTPN11, RASA2, RB1, ROBO1, SP140, TENT5C, TP53, TRAF2, TRAF3, UBR5, ZFHX4, ZNF292*
CHEMA_B_v1	Hematologic Disorders	**59 genes:** *AKT1, ATM, BCL11B, BRAF, CCND3, CNOT3, CREBBP, CTCF, DNM2, EED, EP300, ETV6, EZH2, FAT1, FAT3, FBXW7, FLT3, GATA3, GLI1, GLI2, GLI3, IKZF1, IL2RB, IL7R, JAK1, JAK3, KDM6A, KMT2D, KRAS, LEF1, LMO1, LMO2, MED12, MYB, NF1, NOTCH1, NRAS, NT5C2, PHF6, PIK3CD, PIK3R1, PTCH1, PTEN, RELN, RPL10, RPL22, RPL5, RUNX1, SETD2, SH2B3, SMARCA4, SMO, STAT5B, SUZ12, TP53, TYK2, USP7, USP9X, WT1*
CMYS_F_v3	Myeloid Disorders	**65 genes:** *ANKRD26, ASXL1, ASXL2, ATM, BCOR, BCORL1, BRAF, CALR, CBL, CCND3, CEBPA, CSF3R, CSNK1A1, DDX41, DNMT3A, EIF6, EP300, EPOR, ETNK1, ETV6, EZH2, FLT3, GATA1, GATA2, HRAS, IDH1, IDH2, JAK2, KIT, KRAS, MPL, NF1, NFE2, NPM1, NRAS, PHF6, PPM1D, PRPF8, PTPN11, RAD21, RBBP6, RPL23, RUNX1, SBDS, SETBP1, SF3B1, SH2B3, SMC1A, SMC3, SRP68, SRP72, SRSF2, STAG1, STAG2, TERC, TERT, TET2, TET3, THPO, TP53, U2AF1, U2AF2, UBA1, WT1, ZRSR2*
LYMP_CLSO_v3	Lymphoid Disorders	**73 genes:** *ARID1A, ATM, B2M, BCL2, BCL6, BCOR, BIRC3, BRAF, BTG1, BTK, CARD11, CCND1, CCND3, CD28, CD58, CD79A, CD79B, CDKN2A, CDKN2B, CIITA, CREBBP, CXCR4, DDX3X, DNMT3A, EP300, ETV6, EZH2, FAT1, FBXW7, FOXO1, GNA13, HIST1H1E, ID3, IDH2, INPP5D, IRF4, ITPKB, JAK3, KLF2, KMT2D, KRAS, MAP2K1, MEF2B, MFHAS1, MYC, MYD88, NFKBIE, NOTCH1, NOTCH2, NRAS, PIM1, PLCG1, PLCG2, PRDM1, PTEN, PTPRD, RHOA, SETD2, SF3B1, SOCS1, STAT3, STAT5B, STAT6, TBL1XR1, TCF3, TET2, TNFAIP3, TNFRSF14, TP53, TP63, TRAF2, TRAF3, XPO1*
CHMLS_B_v1	Hematologic, Myeloid and Lymphoid Disorders	**109 genes:** *ABL1, ANKRD26, ARID1A, ASXL1, ASXL2, ATM, ATRX, B2M, BCL2, BCL6, BCOR, BCORL1, BIRC3, BRAF, BTK, CALR, CARD11, CBL, CBLB, CBLC, CCND1, CCND2, CCND3, CD58, CD79A, CD79B, CDKN2A, CDKN2B, CEBPA, CREBBP, CRLF2, CSF3R, CUX1, CXCR4, DDX41, DNMT3A, EP300, ETNK1, ETV6, EZH2, FBXW7, FLT3, FOXO1, GATA1, GATA2, GNA13, GNAS, HRAS, ID3, IDH1, IDH2, IKZF1, IL7R, JAK1, JAK2, JAK3, KDM6A, KIT, KLF2, KMT2A, KMT2D, KRAS, MAP2K1, MEF2B, MPL, MYC, MYD88, NF1, NFKBIE, NOTCH1, NOTCH2, NPM1, NRAS, PAX5, PDGFRA, PHF6, PIM1, PLCG2, POT1, PPM1D, PRDM1, PTEN, PTPN11, RAD21, RB1, RHOA, RUNX1, SETBP1, SETD2, SF3B1, SH2B3, SMC1A, SMC3, SOCS1, SRP72, SRSF2, STAG2, STAT3, STAT5B, STAT6, TCF3, TET2, TNFAIP3, TNFRSF14, TP53, U2AF1, WT1, XPO1, ZRSR2*
CHHS_A_v1	Hereditary Hematologic Disorders	**160 genes:** *ACD, ACKR1, ADA2, ADAR, AIRE, AK2, ANKRD26, AP3B1, ASXL1, ATG2B, ATM, BLM, BLOC1S6, CARD11, CASP10, CASP8, CBL, CD19, CD27, CD40, CD40LG, CD70, CD79B, CEBPA, CLPB, CSF3R, CTC1, CTLA4, CTPS1, CXCR2, CXCR4, DCLRE1C, DDX3X, DDX41, DKC1, DNAJC21, DNM2, EFL1, EIF2AK3, ELANE, EOMES, ERAP1, ERCC6L2, ETV6, FADD, FAS, FASLG, FOXP3, G6PC3, GATA1, GATA2, GATA3, GBA, GFI1, GORASP1, GSKIP, HAX1, IKBKG, IKZF1, IL10, IL10RA, IL10RB, IL13, IL2RA, ITK, JAGN1, KRAS, LAMTOR2, LIG4, LRBA, LYST, MAGT1, MECOM, MPL, MRTFA, MS4A1, MYD88, MYSM1, NAF1, NBN, NCKAP1L, NFKB1, NHEJ1, NHP2, NOP10, NPM1, NRAS, PARN, PIK3CB, PIK3CD, PIK3R1, POT1, PRF1, PRKCD, PVT1, RAB27A, RAC2, RAG1, RAG2, RASGRP1, RBBP6, REL, RMRP, RPL11, RPL15, RPL26, RPL27, RPL35A, RPL5, RPS10, RPS14, RPS17, RPS19, RPS24, RPS26, RPS27, RPS28, RPS29, RPS7, RTEL1, RUNX1, SAMD9, SAMD9L, SBDS, SEC61A1, SH2D1A, SLC37A4, SLC7A7, SMARCAL1, SMARCD2, SOCS1, SRP54, SRP72, STAT1, STAT3, STAT5B, STK4, STN1, STX11, STXBP2, TAZ, TCF3, TCIRG1, TCN2, TERC, TERT, TINF2, TLR8, TNFRSF13B, TNFRSF13C, TP53, TSR2, UNC13D, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53, XIAP*

*The disorders covered by the Community Panels include, but are not limited to, those listed here.

Panel name	Samples per run / Sequencer**	Existing product code
CCLL_A_v3	24 on MiSeq v3 (2x300bp) 16 on MiniSeq High-Output (2x150bp) 96 on NextSeq 500/550 Mid-Output (2x150bp)	**CS2462ILLRSMY01-16, CS2462ILLRSMY01-32, CS2462ILLRSMY01-48**
CLYMP_B_v1	16 on MiSeq v3 (2x300bp)	**CS2291ILLRSML05-32**
CMYS_B_v1	16 on MiSeq v3 (2x300bp)	**CS2111ILLRSML01-048**
CMM_A_v1	7 on MiSeq v3 (2x300bp)	**CS2221ILLRSML01-016**
CHEMA_B_v1	5 on MiSeq v3 (2x300bp)	**CS2450ILLRSMY01-32**
CMYS_F_v3	8 on MiSeq v3 (2x300bp)	**CS2463ILLRSMY01-32, CS2463ILLRSMY01-48**
LYMP_CLSO_v3	24 on NextSeq 500/550 Mid-Output (2x150bp)	**CS2456ILLRSMY05-32, CS2456ILLRSMY05-48**
CHMLS_B_v1	16 on NextSeq 500/550 Mid-Output (2x150bp)	**CS2445ILLRSCY05-16 (DNA), CS2446ILLRSCY05-16 (DNA + RNA), CS2445ILLRSCY05-32 (DNA), CS2446ILLRSCY05-32 (DNA + RNA), CS2445ILLRSCY05-48 (DNA), CS2446ILLRSCY05-48 (DNA + RNA)**
CHHS_A_v1	12 on MiSeq v3 (2x300bp) 48 on NextSeq 500/550 Mid-Output (2x150bp)	**CS2396ILLRGLL01-48**

**Sequencing recommendations and pipelines for other sequencing kits and instruments are available upon request. Number of samples per run is recommended for 1000x coverage depth.

The information provided in this document is for informational purposes only. Full details of the availability and technicals of the panels should be individually confirmed. Please contact us at info@sophiagenetics.com to obtain appropriate further information and discuss the panel(s) that suit(s) your needs.

About SOPHiA GENETICS

SOPHiA GENETICS (Nasdaq: SOPH) is a healthcare technology company dedicated to establishing the practice of data-driven medicine as the standard of care and for life sciences research. It is the creator of the SOPHiA DDM™ Platform, a cloud-based SaaS platform capable of analyzing data and generating insights from complex multimodal data sets and different diagnostic modalities. The SOPHiA DDM™ Platform and related solutions, products and services are currently used by more than 750 hospital, laboratory, and biopharma institutions globally.

Want to know more? Contact us at: **info@sophiagenetics.com**

CNVs, copy number variants; IGH, Immunoglobulin heavy; Indels, insertions/deletions; SNVs, single nucleotide variants