SAPIENS

HEMATOLOGIC ONCOLOGY TEST REQUEST FORM

BARCODE / PROTOCOL NO:

PATIENT:		**PHYSICIAN:**
Name and surname:		**Name and surname:**
Gender: F ☐ M ☐ **Date of birth:**		**Phone number:** **E-mail:**
Mother name:	**Father name:**	**Institution:**
ID number: **E-mail:** **Phone number:** **Address:**		**Stamp:** **SAMPLE TAKEN AND DATE OF SAMPLE COLLECTION:** **Date of Receipt:** **Time:** Peripheral Blood ☐ Bone marrow ☐ Tissue ☐ Other ☐

CLINICAL INFORMATION:

(If necessary, use new paper or attach the epicrisis printout and other necessary documents to the request sheet)

IMPORTANT NOTE:

- Genetic tests are subject to approval. It is a legal requirement to obtain the consent of the patient and his/her guardian for those under 18.
- You can reach us for other forms at https://www.sapiensgenetics.com/guides-forms/ or request it from our center.
- It is recommended that genetic examinations be carried out with genetic counseling before and after the test. For this purpose, you can make an appointment at our center.

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MOLECULAR GENETIC TESTS	
☐ **Myeloid Fusion NGS Panel (Fusion, SNV/Indel)** *SNV/Indel studied genes: ABL1, AKT3, ASXL1, BRAF, CALR, CBL, CEBPA, CREBBP, CSF3R, DCK, DNM2, DNMT3A, ETV6, EZH2, FBXW7, FGFR2, FGFR3, FLT3, GATA1, GATA2, GNAS, IDH1, IDH2, IKZF3, JAK1, JAK2, JAK3, KDM6A, KIT, KRAS, MPL, MYD88, NOTCH1, NPM1, NRAS, PDGFRA, PH6F, PML, PTPN11, RARA, SETBP1, SF3B1, SLC29A1, SRSF2, U2AF1, WT1, XPO1* *Expression Genes Analyzed: CD274, CEBPA, CTLA4, FLT3, ID4, IRF4, IRF8, MECOM, MUC1, MYC, PDCD1, PDCD1LG2, WT1 Fusion, Splicing, Exon Skipping Genes Scanned: ABL1, BCR, CBFB, CHD1, CHIC2, CREBBP, CSF1R, ERG, ETV6, FGFR1, GLIS2, IKZF1, IKZF3, JAK2, KAT6A, KMT2A, MECOM, MKL1, MLLT4, MLLT10, MYC, MYH11, NF1, NOTCH1, NUP98, NUP214, PDCD1LG2, PDGFRA, PDGFRB, PICALM, PML, RARA, RBM15, ROS1, RUNX1, RUNX1T1, SETBP1, SETD2, TCF3, TFG*	☐ Irinotecan toxicity (UGT1A1) ☐ JAK2 Gene Exon 12 Sequence Analysis ☐ MPL Gene Exon 10 Sequence Analysis ☐ B cell clonality test ☐ T cell clonality test ☐ Chimerism Preparation - Donor ☐ Chimerism Preparation - Buyer ☐ Chimerism Analysis - Recipient Tracking
☐ **ALL Fusion NGS Panel (Fusion, SNV/Indel)** *SNV/Indel studied genes: ABL1, BCL2, BRAF, CREBBP, CRLF2, ETV6, EZH2, FBXW7, FLT3, IDH1, IDH2, IKZF3, IL7R, JAK1, JAK2, JAK3, KDM6A, KRAS, MPL, NOTCH1, NRAS, NT5C2, PAX5, PBX1, PTPN11, SH2B3, STAT3, STAT5B, TYK2, WT1 Genes with Expression Analysis: ABL1, AICDA, BCL2, BCL6, BLNK, CD274, CRLF2, CTLA4, DNTT, FLT3, HOXA9, HOXA10, IRF4, IRF8, LMO1, LYL1, MYC, PDCD1, PDCD1LG2, RAG1, RAG2, SOX11, TAL1, TLX1, TLX3, WT1 Fusion, Splicing, Exon Skipping Genes Scanned: ABL1, ABL2, BCL2, BCL6, BCR, CREBBP, CRLF2, CSF1R, EBF1, EPOR, ETV6, FGFR1, IKZF1, IKZF2, IKZF3, JAK2, KLF2, KMT2A, MLLT4, MYC, NF1, NOTCH1, NTRK3, NUP98, NUP214, P2RY8, PAG1, PAX5, PBX1, PDCD1LG2, PDGFRA, PDGFRB, PICALM, PTK2B, RUNX1, SEMA6A, SETD2, STIL, TAL1, TCF3, TYK2, ZCCHC7*	☐ Digital Droplet PCR Translocation (9;22)(q34;q11.2) ☐ PCR - Translocation (9;22)(q34;q11.2) (p190) ☐ PCR - Translocation (9;22)(q34;q11.2) (p210) ☐ PCR - JAK2 V617F mutation ☐ Digital Droplet PCR - JAK2 V617F mutation ☐ PCR - FIP1L1/PDGFRA fusion, del 4q12 ☐ PCR -Translocation (5;12)(q33;p13)(ETV6/ACSL6)
☐ **Lymphoma Fusion NGS Panel (Fusion, SNV/Indel)** *SNV/Indel: AKT3, BAX, BCL2, BIRC3, BRAF, BTK, CARD11, CCND1, CD79B, CREBBP, DNMT3A, ETV6, EZH2, FBXW7, IDH1, IDH2, JAK1, JAK3, KRAS, MYD88, NOTCH1, NOTCH2, NRAS, PLCG1, PLCG2, RHOA, SF3B1, STAT3, STAT5B, STAT6, WT1, CD44, CDC25A, CDKN2A, CDKN2B, CEBPD, CEBPE, CEBPG, CREB3L2, CTLA4, CYB5R2, DENND3, DLEU1, DNMT3B, DNTT, E2F2, ENTPD1, EXOC2, FAM216A, FOXP1, FUT8, IL16, IRF4, IRF8, ITPKB, 1, LIMD1, LMO2, LRMP, LZTS1, MAL, MAML3, MME, MUC1, MYBL1, MYC, NEK6, NFKB1, NME1, PAICS, PDCD1, PDCD1LG2, PIM1, PIM2, PPAT, PRKAR2B, PTPN1, PYCR1, RAB29, RAG1, RAG2, RANBP1, S1PR2, SERPINA9, SH3PB5, STRBP, TNFRSF13B, TNFSF4, WT1 Fusion, Splicing, Exon Skipping: AKT3, ALK, BCL2, BCL6, BCR, BIRC3, CBFB, CCND1, CDK6, CHIC2, CIITA, DEK, DUSP22, EIF4A1, ETV6, JAK2, KMT2A, MALT1, MKL1, MLF1, MLLT10, MYC, NFKB2, NOTCH1, P2RY8, PDCD1LG2, PDGFRA, PRDM16, STIL, TCF3, TP63*	☐ PCR - Translocation (15;17)(q22;q21)(PML/RARA) ☐ PCR - Translocation (8;21)(q22; q22) (RUNX1/RUNXT1) ☐ PCR - CBFB-MYH11 Inversion(16)(p13;q22) ☐ PCR - Translocation (1;19)(q23;p13) (E2A/PBX1) ☐ PCR - Translocation (4;11)(q21;q23) (MLL/AF4) ☐ PCR - Translocation (12;21)(p12;q22) ☐ Thiopurine Pharmacogenetic Test (TPMT gene) ☐ FLT3 Gene Exon 14, 15, 20 Sequence Analysis ☐ GATA1 Gene Exon 2 Sequence Analysis ☐ IDH1 Gene Exon 4 Sequence Analysis
☐ **Ph-like Leukemia Fusion NGS Panel (Fusion, SNV/Indel)** *SNV/Indel studied genes: ABL1, BCL2, BRAF, CREBBP, CRLF2, ETV6, EZH2, FBXW7, FLT3, IDH1, IDH2, IKZF3, IL7R, JAK1, JAK2, JAK3, KDM6A, KRAS, MPL, NOTCH1, NRAS, NT5C2, PAX5, PBX1, PTPN11, SH2B3, STAT3, STAT5B, TYK2, WT1 Genes with Expression Analysis: ABL1, AICDA, BCL2, BCL6, BLNK, CD274, CRLF2, CTLA4, DNTT, FLT3, HOXA9, HOXA10, IRF4, IRF8, LMO1, LYL1, MYC, PDCD1, PDCD1LG2, RAG1, RAG2, SOX11, TAL1, TLX1, TLX3, WT1 Fusion, Splicing, Exon Skipping Genes Scanned: ABL1, ABL2, BCL2, BCL6, BCR, CREBBP, CRLF2, CSF1R, EBF1, EPOR, ETV6, FGFR1, IKZF1, IKZF2, IKZF3, JAK2, KLF2, KMT2A, MLLT4, MYC, NF1, NOTCH1, NTRK3, NUP98, NUP214, P2RY8, PAG1, PAX5, PBX1, PDCD1LG2, PDGFRA, PDGFRB, PICALM, PTK2B, RUNX1, SEMA6A, SETD2, STIL, TAL1, TCF3, TYK2, ZCCHC7*	☐ IDH2 Gene Exon 4 Sequence Analysis ☐ Perforin Gene Sequence Analysis ☐ STX11 (Syntaxin 11) Gene Sequence Analysis ☐ Sequence analysis of the Munc 13-4 (UNC13D) Gene ☐ CALR Gene Exon 9 Sequence Analysis ☐ CEBPA Gene Sequence Analysis ☐ CSF3R Gene Sequence Analysis
☐ **BCR IGH-V Somatic Mutation NGS Panel**	☐ ASXL1 Gene Exon 12 Sequence Analysis
☐ **TCR NGS Panel**	☐ Kostmann (HAX1 Gene Sequence Analysis)
☐ **Myeloid & Lymphoid NGS Panel (SNV/Indel)**	☐ NPM1 Mutation Analysis (MutA, MutB, MutD)
☐ **Imatinib Resistance** ☐ *G250E, Y253H, E255K,T315I, F317L, M351T mutations*	☐ Shwachman-Diamond SBDS Sequence Analysis ☐ PDGFRB Gene Exon 12-20 Sequence Analysis

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☐ PDGFRA Gene Exon 10, 12-21 Sequence Analysis	

CYTOGENETICS - CHROMOSOME TESTS	
☐ Chromosome analysis in bone marrow aspiration material	☐ Chromosome analysis from peripheral blood (Leukemia)
☐ DEB Test (Fanconi aplastic anemia)	☐ Mitomycin C Test

MOLECULAR CYTOGENETICS - FISH TESTS	
☐ FISH- 17p13.1 (TP53) deletion	☐ FISH - 4q12 rearrangements (FIP1LI/PDGFRA fusion)
☐ FISH - 5q32 (PDGFRB) rearrangements	☐ FISH - 5q31 deletion (EGR1)
☐ FISH - 10q24 (TLX1) rearrangements	☐ Fish - Monosomy / Trisomy 8
☐ FISH - 11q22.3 (ATM) deletion	☐ FISH - Monosomy/Trisomy 5
☐ FISH - 11q23 (MLL) rearrangements	☐ FISH - Monosomy/Trisomy 7
☐ FISH - 13q14.3 (D13S319)deletion	☐ FISH - 8q24 (MYC) rearrangements
☐ FISH - 13q14.3 (RB1) deletion	☐ FISH - 17q21 (RARA) rearrangements
☐ FISH - 1q21 (CKS1B)/1q32-36 (CDKN2C) Amplification/Deletion	☐ FISH - SS18 remasters
☐ FISH - 20q12 (D20S108) deletion	☐ FISH - Translocation (1;19)(q23;p13) (TCF3/PBX1)
☐ FISH - 13q34 deletion	☐ FISH - Translocation (11;14)(q13;q32)(IGH/CCND1)
☐ FISH - 14q11.2 (TCR) rearrangements	☐ FISH - Translocation (11;18)(q21;q21) (API2/MALT1)
☐ FISH - 14q32 deletion	☐ FISH - Translocation (11;19)(q23;p13.1) (MLL/ENL)
☐ FISH - 5q35.1 TLX3 rearrangements	☐ FISH - Translocation (12;21)(p12;q22)(ETV6/RUNX1)
☐ FISH - 6q23 (MYB) deletion	☐ FISH - Translocation (14;16)(q32;q23) (MAF/IGH)
☐ FISH - 7q22/del 7q35 (MDS) deletion	☐ FISH - Translocation (14;18)(q32;q21)(IGH/BCL2)
☐ FISH - 20q13.2 (LSI ZNF217)deletion	☐ FISH - Translocation (14;20)(q32;q12)(IGH/MAFB)
☐ FISH - 5q33-q34 (CSF1R) deletion	☐ FISH - Translocation (15;17)(q22;q21)(PML/RARA)
☐ FISH - 7q31 deletion	☐ FISH - Translocation (4;11)(q21;q23) (MLL/AFF1)
☐ FISH - 7q34 (TCRB) rearrangements	☐ FISH - Translocation (4;14)(p16;q32)(IGH/FGFR3)
☐ FISH - 9p21 (CDKN2A) deletion	☐ FISH - Translocation (6;14)(p21;q32)(CCND3/IGH)
☐ FISH - 9q34 (ASS1) deletion	☐ FISH - Translocation (6;9)(p22;q34) (DEK/NUP214)
☐ FISH - 18q21 (BCL2) rearrangements	☐ FISH - Translocation (8;14)(q24; q32)(MYC/IGH)
☐ FISH - 3q27 (BCL6) rearrangements	☐ FISH - Translocation (8;21)(q22; q22) (RUNX1/RUNXT1)
☐ FISH - 11q13 (CCND1) rearrangements	☐ FISH - Translocation (9;11)(p22;q23) (AF9/MLL)
☐ FISH - DDIT3 rearrangements	☐ FISH - Translocation (9;22)(q34;q11.2)(BCR/ABL)
☐ FISH - EWSR1 rearrangements	☐ FISH - Trisomy 10
☐ FISH - Translocation (14;18)(q32;q21) (IGH/MALT1)	☐ FISH - Trisomy 11
☐ FISH - Inversion (16)(p13;q22) / Translocation (16;16)(p13;q22)	☐ FISH - Trisomy 12
☐ FISH - Inversion (3)(q21;q26.2) / Translocation(3;3)(q21;q26.2)	☐ FISH - Trisomy 17
☐ FISH - Chimerism Analysis (Transplantation from Different Sexes)	☐ FISH - Trisomy 4
☐ FISH - 2p12 (IGK) rearrangements	☐ FISH - Trisomy 6
☐ FISH - 22q11 IGL rearrangements	☐ FISH - C-MET Amplifications

***For tests and research projects not listed here, please contact us.**
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