

Patient Information (required)

Patient ID (Medical Record No.)	Client Account No.
Patient Name (Last, First Middle)	Client Order No.
Birth Date (mm-dd-yyyy)	

CHROMOSOME ANALYSIS

Chromosome Analysis

COGBL Chromosome Analysis, Hematologic Disorders, Children's Oncology Group Enrollment Testing, Blood

COGBM Chromosome Analysis, Hematologic Disorders, Children's Oncology Group Enrollment Testing, Bone Marrow

FISH TESTING – BONE MARROW/BLOOD

COGBF B-Cell Acute Lymphoblastic Leukemia/ Lymphoma (ALL), Children's Oncology Group Enrollment Testing, FISH

Must select **either** Individual Probes desired or Diagnostic B-ALL or *BCR::ABL1*-like Features Panel (or both).

Diagnostic+BCR::ABL1-like Features Panel
Includes Diagnostic Panel, *BCR::ABL1*-like Features Panel, and appropriate reflexes.

Diagnostic Panel

PBX1/TCF3 t(1;19)(q23;p13.3)

ETV6/RUNX1 t(12;21)(p13;q22)
reflex: ETV6 BAP 12p13.2 rearrangement

BCR/ABL1 t(9;22)(q34;q11.2)
reflex: ABL1 BAP 9q34 rearrangement

KMT2A 11q23 rearrangement
reflex: AFF1/KMT2A t(4;11)(q21;q23)
reflex: AFDN/KMT2A t(6;11)(q27;q23)
reflex: MLLT3/KMT2A t(9;11)(p22;q23)
reflex: MLLT10/MLL t(10;11)(p13;q23)
reflex: KMT2A/MLLT1 t(11;19)(q23;p13.3)
reflex: KMT2A/ELL t(11;19)(q23;p13.1)

D4Z1/D10Z1/D17Z1 +4, +10, +17, hyper- or hypodiploidy

IGH BAP 14q32 rearrangement
reflex: CRLF2/IGH t(X;14) or t(Y;14)

MYC BAP 8q24.21 rearrangement
MYC/IGH t(8;14)(q24.21;q32)
reflex: BCL2 BAP
reflex: IGH/BCL2 t(14;18)(q32;q21)
reflex: BCL6 BAP

CRLF2 BAP t(Xp22.33;var) or t(Yp11.32;var)

Perform entire diagnostic panel

BCR::ABL1-like Features Panel

ABL2 BAP 1q25 rearrangement

PDGFRB BAP 5q32 rearrangement

IKZF1/Cep7 -7/7p deletion

JAK2 BAP 9p24.1 rearrangement

ABL1 BAP 9q34 rearrangement

CRLF2 BAP t(Xp22.33;var) or t(Yp11.32;var)
reflex: CRLF2/IGH t(X;14)
reflex: P2RY8 BAP t(Xp22.3;var) or t(Yp11.32;var)

Perform entire BCR::ABL1-like Features Panel

COGMF Acute Myeloid Leukemia (AML), Children's Oncology Group Enrollment Testing, FISH

Must select probes listed below or entire panel.

RUNX1T1/RUNX1 t(8;21)(q21.3;q22)
reflex: RUNX1 BAP 21q22 rearrangement

PML/RARA t(15;17)(q24.1;q21.2)
reflex: RARA BAP 17q21 rearrangement

MYH11/CBFB inv(16)(p13;q22) or t(16;16)
reflex: CBFB BAP 16q22.1 rearrangement
reflex: MNX1/ETV6 t(7;12)(q36;p13)

DEK/NUP214 t(6;9)(p22.3;q34)

KAT6A/CREBBP t(8;16)(p11.2;p13.3)

GLIS2/CBFA2T3 inv(16)

NUP98 BAP 11p15.4 rearrangement

KMT2A BAP 11q23 rearrangement
reflex: AFF1/KMT2A t(4;11)(q21;q23)
reflex: AFDN/KMT2A t(6;11)(q27;q23)
reflex: MLLT3/KMT2A t(9;11)(p22;q23)
reflex: MLLT10/KMT2A t(10;11)(p13;q23)
reflex: KMT2A/CREBBP t(11;16)(q23;p13.3)
reflex: KMT2A/MLLT1 t(11;19)(q23;p13.3)
reflex: KMT2A/ELL t(11;19)(q23;p13.1)

GATA2/MECOM inv(3)(q21.3q26.2) or t(3;3)
reflex: PRDM16/RPN1 t(1;3)(p36.3;q21.3)
reflex: MECOM BAP 3q26.2 rearrangement

D5S630/EGR1 -5/5q deletion

D7Z1/D7S486 -7/7q deletion

Perform entire panel

COGTF T-Cell Acute Lymphoblastic Leukemia/ Lymphoma (ALL), Children's Oncology Group Enrollment Testing, FISH

Must select probes listed below or entire panel.

BCR/ABL1 t(9;22) and ABL1 amplification
reflex: ABL1 BAP ABL1 rearrangement

KMT2A BAP 11q23 rearrangement
reflex: AFF1/KMT2A t(4;11)(q21;q23)
reflex: AFDN/KMT2A t(6;11)(q27;q23)
reflex: MLLT3/KMT2A t(9;11)(p21.3;q23)
reflex: MLLT10/KMT2A t(10;11)(p13;q23)
reflex: KMT2A/MLLT1 t(11;19)(q23;p13.3)
reflex: KMT2A/ELL t(11;19)(q23;p13.1)

TAL1/STIL 1p33 rearrangement

TLX3/BCL11B t(5;14)(q35;q32)

TRB BAP 7q34 rearrangement

Four reflex probes available:
MYB, LMO1, LMO2, TLX1

MLLT10/PICALM t(10;11)(p12;q14)

TRA BAP 14q11.2 rearrangement

Four reflex probes available:
MYC, LMO1, LMO2, TLX1

Perform entire panel

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FISH TESTING – TISSUE (PARAFFIN-EMBEDDED)

BLBLF B-Cell Lymphoblastic Leukemia/ Lymphoma, FISH, Tissue

Must select probes listed below or entire panel.

BCR/ABL1 t(9;22)(q34;q11.2)

KMT2A BAP 11q23 rearrangement
 reflex: AFF1/KMT2A t(4;11)(q21;q23)
 reflex: AFDN/KMT2A t(6;11)(q27;q23)
 reflex: MLLT3/KMT2A t(9;11)(p21.3;q23)
 reflex: MLLT10/KMT2A t(10;11)(p13;q23)
 reflex: KMT2A/MLLT1 t(11;19)(q23;p13.3)
 reflex: KMT2A/ELL t(11;19)(q23;p13.1)

PBX1/TCF3 t(1;19)(q23;p13)

D4Z1/D10Z1/D17Z1 Hyperdiploidy, +4, +10, +17

ETV6/RUNX1 fusion/iAMP21 t(12;21)(p13;q22)
 reflex: ETV6 BAP 12p13.2 rearrangement

IGH BAP 14q32 rearrangement

MYC BAP 8q24.1 rearrangement
 MYC/IGH t(8;14)(q24.21;q32)
 reflex: BCL2 BAP 18q21 rearrangement
 reflex: IGH/BCL2 t(14;18)(q32;q21)
 reflex: BCL6 BAP 3q27 rearrangement

ABL1 BAP 9q34 rearrangement

ABL2 BAP 1q25 rearrangement

PDGFRB BAP 5q32 rearrangement

JAK2 BAP 9p24.1 rearrangement

Perform entire diagnostic panel

TLBLF T-Lymphoblastic Leukemia/Lymphoma, FISH, Tissue

Must select probes listed below or entire panel.

BCR/ABL1 t(9;22) and ABL1 amplification

KMT2A BAP 11q23 rearrangement
 reflex: AFF1/KMT2A t(4;11)(q21;q23)
 reflex: AFDN/KMT2A t(6;11)(q27;q23)
 reflex: MLLT3/KMT2A t(9;11)(p22;q23)
 reflex: MLLT10/KMT2A t(10;11)(p13;q23)
 reflex: KMT2A/MLLT1 t(11;19)(q23;p13.3)
 reflex: KMT2A/ELL t(11;19)(q23;p13.1)

TAL1/STIL 1p33 rearrangement

TLX3/BCL11B t(5;14)(q35;q32)

TRB BAP 7q34 rearrangement
 reflex: TLX1/TRB

MLLT10/PICALM t(10;11)(p12;q14)

TRA BAP 14q11.2 rearrangement
 reflex: TLX1/TRA

Perform entire panel

SPECIALIZED TESTING

Chromosomal Microarray

CMAH Chromosomal Microarray, Hematologic Disorders

CMAPT Chromosomal Microarray, Tumor, Formalin-Fixed Paraffin-Embedded

CMAT Chromosomal Microarray, Tumor, Fresh or Frozen

