

ALL FISH Profile	BCR/ABL1-ASS1(9;22)
	KMT2A (MLL)(11q23.3)
	ETV6/RUNX1 t(12;21)/(iAMP21)
	IGH (14q32.3)
	CDKN2A (9p21.3)
	TCF3/PBX1 t(1;19)
TP53 (17p13.1)	

ALL FISH Profile (Ph-like)	PDGFRB (5q32)
	BCR/ABL1-ASS1(9;22)
	JAK2 (9p24.1)
	EPOR (19p13.2)
CRLF2 (Xp22.33/Yp11.32)	

AML FISH Profile	RUNX1T1/RUNX1 t(8;21)
	KMT2A (MLL)(11q23.3)
	PML/RARA t(15;17)
	CBFB/MYH11 inv(16)
	MECOM (3q26.2)
DEK/NUP214 t(6;9)	

B-NHL FISH Profile	BCL6 (3q27.3)
	6q (6q-/6)
	MYC (8q24.21)
	IGH/CCND1 t(11;14)
	IGH/BCL2 t(14;18)
MALT1 (18q21)	

B-NHL FISH Profile High Grade (Double Hit)	BCL6 (3q27.3)
	IRF4-DUSP22 (6p25.3)
	MYC (8q24.21)
IGH/BCL2 t(14;18)	

CLL FISH Profile	ATM (11q22.3)
	Cen 12 (+12)
	13q (13q-/13)
	TP53 (17p13.1)
	IGH/CCND1 t(11;14)

CML FISH Profile	BCR/ABL1-ASS1t(9;22)
	Cen 8 (+8)
	RARA (17q21.21)(iso17q)

Myeloma FISH Profile (Enriched)	CKS1B-CDKN2C (1p32.3/1q21.3)
	IGH/FGFR3 t(4;14)
	5q (5q-/5/+5)
	IGH/CCND1 (t11;14)
	13q (13q-/13)
IGH/MAF t(14;16)	
TP53 (17p13.1)	
IGH/MAFB t(14;20)	

MDS FISH Profile (Standard)	5q (5q-/5/+5)
	7q (7q-/7)
	Cen 8 (+8)
	20q (20q-)
	KMT2A (MLL)(11q23.3)

MDS FISH Profile (Extended)	5q (5q-/5/+5)
	7q (7q-/7)
	Cen 8 (+8)
	20q (20q-)
	KMT2A (MLL)(11q23.3)
	ETV6 (12p13.2)
	TP53 (17p13.1)
	MECOM (3q26.2)
CEN 19 (+19)	

MPN FISH Profile	CKS1B-CDKN2C (1p32.3/1q21.3)
	5q (5q-/5/+5)
	7q (7q-/7)
	Cen 8 (+8)
	20q (20q-)
	BCR/ABL1-ASS1 t(9;22)
13q (13q-/13)	

Eosinophilia FISH Profile	PDGFRA (4q12)
	PDGFRB(5q32)
	FGFR1 (8p11)
	JAK2 (9p24.1)

INDIVIDUALLY AVAILABLE PROBES (USE OTHER: _____ UNDER FISH SECTION)	ALK (2p23)	6q(6q-/6)
	ATM (11q22.3)	7q (7q-/7)
	BCL6 (3q27.3)	13q (13q-/13)
	BCR/ABL1-ASS1(9;22)	20q (20q-)
	BIRC3/MALT1 t(11;18)	
	CBFB/MYH11 inv(16)	
	CDKN2A (9p21.3)	
	Cen 4, Cen 10 (+4/+10)	
	Cen 8 (+8)	
	Cen 12 (+12)	
	Cen 19 (+19)	
	Cen X/Y	
	CKS1B-CDKN2C (1p32.3/1q21.3)	
	CRLF2 (Xp22.33/Yp11.32)	
	DEK/NUP214 t(6;9)	
	EPOR (19p13.2)	
	ETV6 (12p13.2)	
	ETV6/RUNX1 (t12;21)/(iAMP21)	
	FGFR1 (8p11)	
	IGH (14q32.3)	
	IGH/BCL2 t(14;18)	
	IGH/CCND1 (t11;14)	
	IGH/FGFR3 t(4;14)	
	IGH/MAF t(14;16)	
	IGH/MAFB t(14;20)	
	IGH/MYC t(8;14)	
	IRF4-DUSP22 (6p25.3)	
	JAK2 (9p24.1)	
KMT2A (MLL)(11q23.3)		
MALT1 (18q21)		
MECOM (3q26.2)		
MYC (8q24.21)		
PDGFRA (4q12)		
PDGFRB (5q32)		
PML/RARA t(15;17)		
RARA (17q21.2)/(iso17q)		
RUNX1T1/RUNX1 t(8;21)		
TCF3/PBX1 t(1;19)		
TCRad (14q11.2)		
TP53 (17p13.1)		
5q(5q-/5/+5)		

NEXT GEN SEQUENCING (NGS) PROFILES

ALL Fusion Molecular Profile by NGS
ABL1, ABL2, BCR, CRLF2, CSF1R, ETV6, IL2RB, IL3, JAK2, KMT2A, MEF2D, MLLT10, NUP98, PAX5, PDGFRB, PTK2B, RUNX1, TAL1, TCF3, TLX1, TLX3, TYK2, ZNF384

AML Molecular Profile by NGS
ASXL1, BCOR, CEBPA, CSF3R, DNMT3A, EZH2, IDH1, IDH2, KIT, KRAS, NPM1, NRAS, PHF6, PTPN11, RAD21, RUNX1, SF3B1, SRSF2, STAG2, TET2, TP53, U2AF1, WT1, ZRSR2

CLL Comprehensive Molecular Profile by NGS
ASXL1, ATM, BCOR, BIRC3, BRAF, BTK, CCND1, CCND2, CDKN2B, DDX3X, DNMT3A, FAT1, FBXW7, HIST1H1E, IKZF3, IRAK4, ITPKB, KRAS, MAP2K1, MAP3K14, MAPK1, MED12, MEF2B, MYD88, NFKBIE, NOTCH1, NRAS, PLCG2, PIK3CD, POT1, PTEN, RB1, RIPK1, RPS15, SAMHD1, SETD2, SF3B1, SPEN, SPOP, TET2, TLR2, TP53, TRAF2, TRAF3, UBR5, XPO1, ZMYM3

CLL Targeted Molecular Profile by NGS
ATM, BIRC3, NOTCH1, SF3B1, TP53

Lymphoid Molecular Profile by NGS
ABL1, ABL2, ALK, ARHGEF1, ARID1A, ARID2, ASXL1, ATM, B2M, BCL2, BCL6, BCOR, BIRC3, BRAF, BTK, CARD11, CCND1, CCND2, CCND3, CD274, CD79A, CD79B, CDKN1B, CDKN2A, CDKN2B, CIITA, CREBBP, CRLF2, CSF1R, CTCF, CTNNB1, CXCR4, DDX3X, DIS3, DNMT3A, EBF1, EGR1, EP300, EPOR, ETV6, EZH2, FAM46C, FAS, FAT1, FBXW7, FGFR3, FOXO1, GATA3, GNA13, GNAI2, HIST1H1E, HRAS, ID3, IDH1, IDH2, IKKBK, IKZF1, IKZF3, IRAK4, ITPKB, JAK1, JAK2, JAK3, KLF2, KRAS, MALT1, MAP2K1, MAP3K14, MAPK1, MED12, MEF2B, KMT2D, MYC, MYCN, MYD88, NF1, NFKBIE, NOTCH1, NOTCH2, NOTCH3, NRAS, NT5C2, P2RY8, PDGFRB, PHF6, PIK3CA, PIK3CD, PIK3R1, PIM1, PLCG1, PLCG2, POT1, PPM1D, PRDM1, PRPS1, PTEN, PTPN11, RB1, REL, RHOA, RIPK1, RPS15, RUNX1, S1PR2, SAMHD1, SETD2, SF3B1, SGK1, SH2B3, SOCS1, SPEN, STAT3, STAT5B, STAT6, TBL1XR1, TCF3, TET2, TLR2, TNFAIP3, TNFRSF14, TP53, TRAF2, TRAF3, UBR5, WT1, XPO1, ZFH4, ZMYM3

MPN Targeted Molecular Profile by NGS
CALR, CSF3R, JAK2, MPL, SETBP1

Myeloid Molecular Profile by NGS
ASXL1, BCOR, BRAF, CALR, CBL, CEBPA, CSF3R, DDX41, DNMT3A, ETNK1, ETV6, EZH2, GATA2, GNAS, GNB1, IDH1, IDH2, JAK2, KIT, KRAS, MPL, NF1, NPM1, NRAS, PDGFRA, PHF6, PPM1D, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, STAT3, STAT5B, TET2, TP53, U2AF1, WT1, ZRSR2