

FISH PROBE LIST BY PANEL

FISH PANEL	ABNORMALITY/LOCI	PROBE (AKA)	CHROMOSOME LOCATION (COLOR)	OTHER DETAILS
CLL	11q deletion/ 17p deletion	ATM,TP53	11q22.3 (G) /17p13.1 (R)	
	13q deletion, Trisomy 12	D13S319,13q34 + D12Z3	13q14.2 (R)/13q34 (G) + 12p11.1-q11.1 (A)	
	t(11;14)	IGH/CCND1 (BCL1)	11q13 (R) /14q32.3 (G)	Mantle cell lymphoma
	-6/6q deletion	MYB,D6Z1	6q23.3(R)/6p11.1-q11.1(G)	
CML	t(9;22)	BCR/ABL1,ASS1	22q11.22-q11.23 (G)/9q34.11-q34.12(R), 9q34.11-q34.12(A)	
MDS	-5/5q deletion	Del(5q) (EGR1)	5p15.31 (G)/5q31.2 (R)	
	-7/7q deletion	Del(7q)	7q22.1-q22.2 (R) /7q31.2 (G)	
	20q-, Trisomy 8	Del(20q) + D8Z2	20q12 (R) /20q13.12 (G) + 8p11.1-q11.1 (A)	
	-17/17p13.1 deletion	TP53 (P53),D17Z1	17p13.1 (R) /17p11.1-q11.1 (G)	
AML	-7/7q deletion	Del(7q)	7q22 (R) /7q31 (G)	
	20q-/Trisomy 8	Del(20q) + D8Z2	20q12 (R) /20q13.12 (G) + 8p11.1-q11.1 (A)	
	t(8;21)	RUNX1/RUNX1T1 (AML1/ETO)	8q21.3 (G) / 21q22.12 (R)	
	11q23	KMT2A (MLL)	11q23.3 (R/G)	
	t(15;17)	PML/RARA	15q24.1 (R) /17q21 (G)	
	inv(16)/t(16;16)	CBFB/MYH11	16q22 (R) /16p13 (G)	
AML-pediatric	-7/7q deletion	Del(7q)	7q22 (R) /7q31 (G)	
	t(8;21)	RUNX1/RUNX1T1 (AML1/ETO)	8q21.3 (G) / 21q22.12 (R)	
	inv(3) or t(3;3)	MECOM (EVI1)	3q26.2 (R/G/A)	
	11q23	MLL (KMT2A)	11q23.3 (R/G)	
	t(15;17)	PML/RARA	15q24.1 (R) /17q21 (G)	
	inv(16)/t(16;16)	CBFB/MYH11	16q22 (R) /16p13 (G)	
	11p15	NUP98	11p15 (R/G)	
	t(6;9)	DEK/NUP214	6p22.3 (G)/9q34.12-q34.13 (R)	
AML-special (St Louis Child. Hosp.)	-7/7q deletion	Del(7q)	7q22 (R) /7q31 (G)	
	inv(3) or t(3;3)	MECOM (EVI1)	3q26.2 (R/G/A)	
	t(8;21)	RUNX1/RUNX1T1 (AML1/ETO)	8q21.3 (G) / 21q22.12 (R)	
	11q23	KMT2A (MLL)	11q23.3 (R/G)	
	t(15;17)	PML/RARA	15q24.1 (R) /17q21 (G)	
	inv(16)/t(16;16)	CBFB/MYH11	16q22 (R) /16p13 (G)	
	11p15	NUP98	11p15 (R/G)	
	t(6;9)	DEK/NUP214	6p22.3 (G)/9q34.12-q34.13 (R)	
	-5/5q deletion	Del(5q) (EGR1)	5p15.31 (G)/5q31.2 (R)	

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AML supplemental	inv(3) or t(3;3)	MECOM (EVI1)	3q26.2 (R/G/A)	
	t(6;9)	DEK/NUP214	6p22.3 (G)/9q34.12-q34.13 (R)	
	t(9;22)	BCR/ABL1,ASS1	22q11.22-q11.23 (G)/9q34.11-q34.12(R), 9q34.11-q34.12(A)	
	11p15	NUP98	11p15 (R/G)	
MM	-13/13q deletion	D13S319,13q34	13q14.2 (R)/13q34 (G)	
	-17/17p13.1 deletion	TP53 (P53),D17Z1	17p13.1 (R)/17p11.1-q11.1 (G)	
	t(4;14)	IGH/FGFR3	4p16.3 (R)/14q32.3 (G)	
	t(11;14)	IGH/CCND1 (BCL1)	11q13 (R)/14q32.3 (G)	
	1q gain/1p deletion	CDKN2C/CKS1B	1q21.3 (R)/1p32.3 (G)	
	+3/+15 or ploidy	D3Z1 + D15Z4	3p11.1-3q11.1 (R) + 15p11.1-15q11.1 (G)	

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Reflex with IGH gain	14q32.3	IGH	14q32.3 (R/G)	
	t(14;16)	IGH/MAF	14q32.3 (G)/16q23 (R)	
	t(6;14)	IGH/CCND3	6p21 (R)/14q32.3 (G)	
	t(14;20)	IGH/MAFB	14q32.3 (G)/20q12 (R)	
	t(8;14)	IGH/MYC	8q24.21 (R)/14q32.3 (G)	
NHL B-cell Lymphoma	t(11;14)	IGH/CCND1 (BCL1)	11q13 (R)/14q32.3 (G)	Mantle cell lymphoma
	t(14;18)	IGH/BCL2	14q32.3 (G)/18q21 (R)	Follicular lymphoma
	18q21	MALT1	18q21.31-q21.32 (R/G)	
	3q27	BCL6	3q27.3 (R/G)	
NHL-per request	8q24	MYC	8q24.21 (R/G)	Burkitt's lymphoma
	t(8;14)	IGH/MYC	8q24.21 (R)/14q32.3 (G)	Burkitt's lymphoma
DHL Double Hit Lymphoma	t(14;18)	IGH/BCL2	14q32.3 (G)/18q21 (R)	Follicular lymphoma
	3q27	BCL6	3q27.3 (R/G)	
	8q24	MYC	8q24.21 (R/G)	Burkitt's lymphoma
	t(8;14)	IGH/MYC	8q24.21 (R)/14q32.3 (G)	Burkitt's lymphoma

T-cell Lymphoma	2p23	ALK	2p23 (R/G)	
	14q11.2	TCRAD (for TRA & TRD)	14q11.2 (R/G)	
	-6/6q deletion	MYB,D6Z1	6q23.3 (R)/6p11.1-q11.1 (G)	
	7q34	TCRB (for TRB)	7q34 (R/G)	
B-ALL	t(9;22)	BCR/ABL1,ASS1	22q11.22-q11.23 (G)/9q34.11-q34.12(R), 9q34.11-q34.12(A)	COG priority
	t(8;14)	IGH/MYC	8q24.21 (R)/14q32.3 (G)	
	t(12;21)	ETV6/RUNX1 (TEL/AML1)	12p13.2 (R)/21q22.12 (G)	COG priority
	11q23	KMT2A (MLL)	11q23.3 (R/G)	COG priority
	1q25.2	ABL2	1q25.2(R/G)	COG priority
	9q34	ABL1	9q34 (R/G)	COG priority
B-ALL - pediatric (additional probes)	+4/+10 or ploidy	D4Z1 + D10Z1	4p11.1-4q11.1 (G) + 10p11.1-10q11.1 (R)	COG priority
	5q32 deletion	PDGFRB	5q32 (R/G)	COG priority
	9p21.3	CDKN2A (TP16),D9Z3	9p21.3 (R)/9q12 (G)	
	t(1;19)	PBX1/E2A (TCF3)	1q23.3 (R)/19p13.3 (G)	

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Ph-like B-ALL	Xp22.33/Yp11.32	CRLF2	Xp22.33/Yp11.32 (R/G)	
	9p24.1	JAK2	9p24.1 (R/G)	
	14q32	IGH	14q32 (R/G)	
	19p13.2	EPOR	19p13.2 (R/G)	
T-ALL	t(9;22)	BCR/ABL1,ASS1	22q11.22-q11.23 (G)/9q34.11-q34.12(R), 9q34.11-q34.12(A)	
	11q23	KMT2A (MLL)	11q23.3 (R/G)	
	7q34	TCRB (for TRB)	7q34 (R/G)	
	14q11.2	TCRAD (for TRA & TRD)	14q11.2 (R/G)	
	9p21.3	CDKN2A (TP16),D9Z3	9p21.3 (R)/9q12 (G)	
	8q24	MYC	8q24.21 (R/G)	
eosinophilia/MPN	4q12 deletion	FIP1L1,CHIC2,PDGFRA	4q12 (G/R/G)	
	5q32 deletion	PDGFRB	5q32 (R/G)	
	8p deletion	FGFR1,D8Z2	8p11.23-p11.22(R/G)/8p11.1-q11.1 (A)	
	t(9;22)	BCR/ABL1,ASS1	22q11.22-q11.23 (G)/9q34.11-q34.12(R), 9q34.11-q34.12(A)	
	9p24.1	JAK2	9p24.1 (R/G)	

INDIVIDUAL PROBES	ABNORMALITY/LOCI	PROBE (AKA)	CHROMOSOME LOCATION (COLOR)	OTHER DETAILS
INDIVIDUAL PROBES	Pediatric-type follicular (PTFL)	TNFRSF14,ABL2	1p36.32(R)/ 1q25.2(G)	
	Large B-cell lymphoma (LBCL)	IRF4,DUSP22,D6Z1	6p25.3(G)/ 6p25.3(R) + 6p11.1-q11.1(A)	
	t(9;11)	KMT2A/MLLT3	9p21 (G) / 11q23 (R)	
	t(10;11)	KMT2A/MLLT10	11q23 (R)/10p12.31 (G)	
	Burkitt-like Lymphoma w/11q	CEP164,ETS1,FGF19	11q23.3(R)/ 11q24.3(G)/ 11q13.3(A)	
	12p13.2	ETV6	12p13.2 (R/G)	
	13q14.2 deletion	RB1,13q34	13q14.2 (R)/13q34 (G)	
	t(16;16)	CBFA2T3/GLIS2	16q24.3 (R)/16p13.3 (G)	
	17q21	RARA	17q12-21 (R/G)	
	18q21	BCL2	18q21.33-q22.1 (R/G)	
	19p13.3	TCF3 (E2A)	19p13.3 (R/G)	
	Engraftment (X/Y)	DXZ1,DYZ3	Xp11.1-q11.1 (G)/Yp11.1-q11.1 (R)	