

FISH_OSD_FISH Probe List by Panel

FISH PANEL	ABNORMALITY/LOCI	PROBE(AKA)	CHROMOSOME LOCATION(COLOR)	OTHER DETAILS
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	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)	
AML - adult	-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 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)	
AML - special = AML-pediatric + 5q	-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	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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B-ALL - pediatric	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
	9q34	ABL1	9q34(R/G)	COG priority
	1q25.2	ABL2	1q25.2(R/G)	COG priority
	+4/+10 or ploidy	D4Z1 + D10Z1	4p11.1-4q11.1(G) + 10p11.1-10q11.1(R)	COG priority
	t(1;19)	PBX1/TCF3(E2A)	1q23.3(R)/19p13.3(G)	
	5q32 deletion	PDGFRB	5q32(R/G)	COG priority
	9p21.3	CDKN2A(TP16),D9Z3	9p21.3(R)/9q12(G)	
B-ALL - adult	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
	9q34	ABL1	9q34(R/G)	COG priority
	1q25.2	ABL2	1q25.2(R/G)	COG priority
BCR-ABL1-like B-ALL aka 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)	

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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)	

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CML	t(9;22)	BCR/ABL1,ASS1	22q11.22-q11.23(G)/9q34.11-q34.12(R), 9q34.11-q34.12(A)	
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)	
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)	

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B-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)	
Burkitt Lymphoma	8q24	MYC	8q24.21(R/G)	
	t(8;14)	IGH/MYC	8q24.21(R)/14q32.3(G)	
HGBCL, High-grade B-cell Lymphoma (aka Double-Hit or DHL)	8q24	MYC	8q24.21(R/G)	
	t(8;14)	IGH/MYC	8q24.21(R)/14q32.3(G)	
	t(14;18)	IGH/BCL2	14q32.3(G)/18q21(R)	
	18q21	BCL2	18q21.33-q22.1(R/G)	
	3q27	BCL6	3q27.3(R/G)	
Burkitt-like Lymphoma with 11q aberration (NOT work for paraffin)	11q13.3-11q24.3	CEP164,ETS1,FGF19	11q23.3(R)/11q24.3(G)/ 11q13.3(A)	
Pediatric-type Follicular Lymphoma (PTFL) (NOT work for paraffin)	1p36 deletion	TNFRSF14,ABL2	1p36.32(R)/1q25.2(G)	
IRF4/DUSP22 rearrangement (NOT work for paraffin)	6p25	IRF4/DUSP22	6p25(R/G)	Large B-cell lymphoma ALK-negative anaplastic large cell lymphoma

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Multiple Myeloma (MM)	14q32.3	IGH	14q32.3(R/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	CKS1B,CDKN2C	1q21.3(R)/1p32.3(G)	
	+3/+15 or ploidy	D3Z1 + D15Z4	3p11.1-3q11.1(R) + 15p11.1-15q11.1(G)	
Reflex for rare IGH rearrangements	t(14;16)	IGH/MAF	14q32.3(G)/16q23(R)	
	t(14;20)	IGH/MAFB	14q32.3(G)/20q12(R)	
	t(8;14)	IGH/MYC	8q24.21(R)/14q32.3(G)	
	t(6;14)	IGH/CCND3	6p21(R)/14q32.3(G)	

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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)	
T-cell Lymphoma	2p23	ALK	2p23(R/G)	
	14q11.2	TCRAD(for TRA & TRD)	14q11.2(R/G)	
	7q34	TCRB(for TRB)	7q34(R/G)	
	-6/6q deletion	MYB,D6Z1	6q23.3(R)/6p11.1-q11.1(G)	

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INDIVIDUAL PROBES	t(9;11)	KMT2A/MLLT3(MLL/AF9)	9p21(G) /11q23(R)	
	t(10;11)	KMT2A/MLLT10(MLL/AF10)	11q23(R)/10p12.31(G)	
	12p13.2	ETV6	12p13.2(R/G)	
	13q deletion	13q14.2,13q34	13q14.2(R)/13q34(G)	
	t(16;16)	CBFA2T3/GLIS2	16q24.3(R)/16p13.3(G)	
	17q21	RARA	17q21(R/G)	
	19p13.3	TCF3(E2A)	19p13.3(R/G)	