MAYO CLINIC
Mayo Medical Laboratories

LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME	PATIENT NUMBER	AGE	SEX	ACCESSION #
TESTING, FBALL	L3MRNG9164305	13	M	G9164305

ORDERING PHYSICIAN	CLIENT ORDER #	ACCOUNT #
		LIAISONS

COLLECTION DATE TIME	RECEIVED DATE TIME	REPORT PRINTED DATE TIME	SPECIMEN INFORMATION
02/08/11 02:03 P	02/08/11 02:03 P	03/09/11 08:08 A	DATE OF BIRTH: 12/22/1997

Test Client
Attn: Mayo Liaisons
200 First Street SW
Rochester, MN 55905
507-284-8202

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *

ALL (B-Cell), FISH — **REPORTED: 02/08/11 02:14 P**

Specimen	**Bone Marrow**	**MCR**
Specimen ID	**1053452**	**MCR**
Order Date	**08 Feb 2011 14:04**	**MCR**
Reason for Referral	**B-cell ALL**	**MCR**

Method — **MCR**

FISH for ALL with 1q23 (PBX1), 4cen (D4Z1), 9p21 (p16), 9q34 (ABL), 10cen (D10Z1), 11q23 (MLL), 12p13 (TEL), 17cen (D17Z1), 19p13.3 (TCF3), 21q11.2 (AML1) and 22q11.2 (BCR).

Result — **MCR**

Anomaly	Result (%)	95% normal cutoff
t(1;19)(PBX1/TCF3)	normal	<0.6
der(19)	normal	<0.6
+4	normal	<1.5
+10	normal	<1.5
+17	normal	<1.5
9p-(p16-)	abnormal (83.0%)	<6.0
9p-x2(p16-x2)	normal	<1.5
t(9;22)(BCR/ABL)	normal	<0.6
11q23(MLL sep)	normal	<4.0
t(12;21)(TEL/AML1)	normal	<0.6
+21(+AML1)	normal	<2.1
Amp(AML1)	normal	<1.5

NOMENCLATURE:
ish dic(9;20)(JAG+,D20S108-;JAG+,D20S108+)[1/2]
nuc ish(p16x1,D9Z1x2)[166/200]

Interpretation — **MCR**

The result is abnormal and indicates 83.0% of nuclei had a p16 gene deletion (at 9p21). FISH on an abnormal metaphase from the chromosome study, reported separately, demonstrated

** Perform Site Legend on last page of report*

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TESTING, FBALL	Final	02/08/11 02:03 P

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that the JAG1 gene region (at 20p12) is translocated to the abnormal chromosome 9 and the D20S108 gene region (at 20q12) is deleted. These results are consistent with the dic(9;20) observed by the chromosome studies and are consistent with persistence or relapse of this patient's leukemic clone.
For monitoring response to therapy in this patient, we suggest using FISH for p16 deletion.
This report is consistent with the preliminary results given to Stephanie Morgan on 06/11/2008.
DISCLAIMER: This test was developed and its performance characteristics determined by Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN. It has not been cleared or approved by the U.S. Food and Drug Administration. This FISH test does not rule out other chromosome abnormalities.

Consultant	**Heather Lynn Owen**	**MCR**
Released Date	**08 Feb 2011 14:12**	**MCR**

*** PERFORMING SITE**

MCR	Mayo Clinic Dpt of Lab Med & Pathology 200 First Street SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.

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TESTING, FBALL	Final	02/08/11 02:03 P