Patient Name	Patient ID	Age	Gender	Order #
TESTINGRNV,FMST NORMAL	SA00058789	23	F	SA00058789
Ordering Phys CLIENT,CLIENT				**DOB** 01/01/1990
Client Order # SA00058789	**Account Information**			**Report Notes**
Collected 06/06/2013 05:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 07/09/2013 14:48				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Myeloid Sarcoma, FISH, Ts					
RECEIVED: 06/06/2013 09:06 **REPORTED:** 06/07/2013 09:58					
Specimen		Tissue-Paraffin			MCR
Specimen ID		1062151			MCR
Source		Skin 123456789 A13			MCR
Order Date		06 Jun 2013 09:13			MCR
Reason For Referral		Myeloid Sarcoma			MCR
Method					MCR

Locus and probes	[Strategy;#nuclei;Class]
8q22[RUNX1T1(ETO)], 21q22[RUNX1(AML1)]	[DFISH;100;ASR]
9q34(ABL1), 22q11.2(BCR)	[DFISH;100;ASR]
11q23(5'MLL,3'MLL)	[BAP;100;ASR]
15q24.1(PML), 17q21(RARA)	[DFISH;100;ASR]
16p13(MYH11), 16q22(CBFB)	[DFISH;100;LDT]

Probe strategies include: DFISH=dual color, double fusion;
BAP=break-apart probe;
COPY#=region gain and loss.

Results MCR

Abnormality	Result(%)	95% normal cutoff
t(8;21)(RUNX1T1/RUNX1)	normal	<3.0
t(9;22)(ABL1/BCR)	normal	<3.0
11q23(MLL sep)	abnormal	<3.0
t(15;17)(PML/RARA)	normal	<3.0
inv(16)(MYH11/CBFB)	normal	<3.0

NOMENCLATURE:
nuc ish(MLLx2)(5'MLL sep 3'MLLx1)[100/100]

Interpretation MCR

The result is abnormal in this liver biopsy specimen and indicates 100% of nuclei have a rearrangement involving the MLL gene region. This result usually indicates an MLL translocation or inversion, which is associated with both de novo and therapy-related AML, particularly subtypes M4 and M5. While an MLL gene rearrangement reportedly has an intermediate to unfavorable prognosis at diagnosis in AML, the prognostic significance in a myeloid sarcoma is unknown.

For monitoring response to therapy in this patient, we suggest using FISH for the MLL gene region.

Performing Site Legend on Last Page of Report

MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
TESTINGRNV,FMST NORMAL	SA00058789	23	F	SA00058789
Ordering Phys CLIENT,CLIENT				**DOB** 01/01/1990
Client Order # SA00058789	**Account Information**			**Report Notes**
Collected 06/06/2013 05:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 07/09/2013 14:48				

Test	Flag	Results	Unit	Reference Value	Perform Site*
DISCLAIMER: Applicable to Analyte Specific Reagent (ASR) and Laboratory Developed Tests (LDT). This test was developed and its performance characteristics determined by Mayo Clinic. 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.					
Reviewed By		Christina M Radtke			MCR
Released Date		07 Jun 2013 09:57			MCR

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.

* Report times for Mayo performed tests are CST/CDT