MAYO CLINIC
Mayo Medical Laboratories

LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME	PATIENT NUMBER	AGE	SEX	ACCESSION #
TESTING, MAP TEST	L3MRNG9169469	22	F	G9169469

ORDERING PHYSICIAN	CLIENT ORDER #	ACCOUNT #
		LIAISONS

COLLECTION DATE TIME	RECEIVED DATE TIME	REPORT PRINTED DATE TIME	SPECIMEN INFORMATION
05/12/11 06:00 A	05/12/11 10:02 A	05/19/11 12:55 P	DATE OF BIRTH:

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

TEST REQUESTED	HI LO		REF RANGE	PERFORM SITE *
DNA/RNA Extraction, MAP Lab			**REPORTED: 05/12/11 10:10 A**	
DNA/RNA Extraction, MAP Lab		**Performed**		**MCR**
AP Special Studies Review			**REPORTED: 05/12/11 10:10 A**	
Accession Number		**HR11-183**		**MCR**
Referring Pathologist/Physician				**MCR**

Doctor Test Jr., M.D.

Ref Path/Phys Address **MCR**

Methodist Hospital
200 1st Street SW
Rochester, MN 55905
507-266-0740

Specimen: **MCR**

A:AP Slide Review

Material: **MCR**

colon - 1 block (S11-123)
SLIDE DISPOSITION:

Final Diagnosis: **MCR**

Molecular Anatomic Pathology Report:
Result:
Positive for KIT exon 8 c.1723_1758dup p.Gln575_Arg586dup by PCR and sequencing. All controls worked appropriately.
Interpretation:
Several tumors can harbor KIT mutations, including gastrointestinal stromal tumor (GIST), mast cell disease, melanoma, seminoma, acute myeloid leukemia, myeloproliferative neoplasms, and lymphomas. In addition, occasional cases of GIST can also harbor mutations in PDGFRA, a gene structurally related to KIT. The frequency and type of mutations vary among these tumors and portent distinct clinical implications. The ordering physician is responsible for the

** Perform Site Legend on last page of report*

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diagnosis and management of disease and decisions based on the data provided.
Method:
Mutation analyses were performed using polymerase chain reaction (PCR) and sequencing for the KIT exon 8 gene on DNA extracted from paraffin-embedded tissue.
Cautions:
This test is unable to distinguish between a somatic and a germline KIT (or PDGFRA) mutation. Germline KIT (or PDGFRA) mutations are rare and their clinical relevance has been described in more detail by Robson ME et al.
Clin Cancer Res 2004; 15:1250-4 and Li FP et al. J Clin Oncol. 2005; 23:2735-43. Testing of a peripheral blood specimen from this individual would be required to distinguish a germline from a somatic mutation. This test is currently not offered at Mayo Clinic.
This test was developed and its performance characteristics determined by the Department of Laboratory Medicine and Pathology, Division of Anatomic Pathology at the Mayo Clinic. It has not been cleared or approved by the US Food and Drug Administration. The test is used for clinical purposes. Clinical diagnosis and/or therapy should not be based solely on this assay. The results should be considered in conjunction with clinical information and/or additional diagnostic tests.

Signing Pathologist: **5/12/2011 10:09** **MCR**
Interpreted by:
Pathologist X. Test, M.D.

Report electronically signed by Debbie A. Postier
Transcribed by: dap07 5/12/2011 10:09:40

KIT, Mutation Analysis, Ex8 **REPORTED: 05/12/11 10:10 A**

KIT, Mutation Analysis, Ex8	**Performed**	**MCR**

** Perform Site Legend on last page of report*

PATIENT NAME	ORDER STATUS	COLLECTION DATE AND TIME
TESTING, MAP TEST	Final	05/12/11 06:00 A

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TEST REQUESTED	HI LO		REF RANGE	PERFORM SITE *
PDGFRA, Mutation Analysis, Ex14			**REPORTED: 05/12/11 10:10 A**	
PDGFRA, Mutation Analysis, Ex14		**Performed**		**MCR**
PDGFRA, Mutation Analysis, Ex12			**REPORTED: 05/12/11 10:10 A**	
PDGFRA, Mutation Analysis, Ex12		**Performed**		**MCR**
PDGFRA, Mutation Analysis, Ex18			**REPORTED: 05/12/11 10:10 A**	
PDGFRA, Mutation Analysis, Ex18		**Performed**		**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.

PATIENT NAME	ORDER STATUS	COLLECTION DATE AND TIME
TESTING, MAP TEST	Final	05/12/11 06:00 A