MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
SAMPLEREPORT,MENMS N	SA00058701	46	F	SA00058701
Ordering Phys CLIENT,CLIENT				**DOB** 06/10/1966
Client Order # SA00058701	**Account Information**			**Report Notes**
Collected 06/02/2013 00:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 06/05/2013 08:59				

Test	Flag	Results	Unit	Reference Value	Perform Site*
MEN2 (2A,2B,FMTC) Mutation Screen					
RECEIVED: 06/03/2013 16:18 **REPORTED:** 06/04/2013 15:32					
Specimen		Blood			MCR
Specimen ID		1062024			MCR
Order Date		04 Jun 2013 11:31			MCR
Reason For Referral					MCR

Patient has medullary thyroid cancer (MTC). Test for the presence of a mutation in the RET proto-oncogene.

Method MCR

Bi-directional sequence analysis was performed to test for the presence of a mutation in exons 10, 11, 13, 14, 15, and 16 of the RET proto-oncogene. Mutation nomenclature is based on GenBank accession number NM_020975.3.

Result MCR

A mutation was NOT detected.

Interpretation MCR

This result decreases the likelihood but does not rule out the diagnosis of multiple endocrine neoplasia type 2 (MEN2) or familial medullary thyroid cancer (FMTC) since disease causing mutations may be present in other regions of the RET proto-oncogene. Approximately 98% of individuals with MEN 2A, 96% with FMTC and 99% with MEN 2B have a mutation identified using the method described.

A genetic consultation may be of benefit.

Unless reported or predicted to cause disease, alterations found deep in the intron or alterations that do not result in an amino acid substitution are not reported. These and common polymorphisms identified for this patient are available upon request.

CAUTIONS:
Test results should be interpreted in context of clinical findings, family history, and other laboratory data. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.

Rare polymorphisms exist that could lead to false negative or positive results. If results obtained do not match the clinical findings, additional testing should be considered.

Bone marrow transplants from allogenic donors will interfere with testing. Call Mayo Medical Laboratories for

Performing Site Legend on Last Page of Report

* Report times for Mayo performed tests are CST/CDT

TEST SITE

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Test	Flag	Results	Unit	Reference Value	Perform Site*
instructions for testing patients who have received a bone marrow transplant.					
Laboratory developed test.					
Reviewed By:					MCR
Emily Christine Lauer					
Release Date		04 Jun 2013 15:30			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.

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TEST SITE