

Patient Name SAMPLEREPORT,MLHMS	Patient ID SA00050438	Age 56	Gender M	Order # SA00050438
Ordering Phys				DOB 06/15/1956
Client Order # SA00050438	Account Information			Report Notes
Collected 11/06/2012	C7028846-DLMP ROCHESTER 3050 SUPERIOR DRIVE ROCHESTER,MN 55901			
Printed 01/04/2013 15:25				

Test	Flag	Results	Unit	Reference Value	Perform Site*
MLH1 Mutation Screen			REPORTED	11/19/2012 19:01	
Reason For Referral		Tumor from patient demonstrates the absence of protein expression for MLH1 and PMS2. Test for the presence of a mutation in the MLH1 gene.			MCR
Result		A mutation was NOT detected.			MCR
Interpretation		This result does not rule out the diagnosis of Lynch syndrome. We predict that some individuals who have a diagnosis of Lynch syndrome involving the MLH1 gene may have a mutation that is not identified by the methods described above (e.g. promoter mutations or deep intronic mutations).			MCR
		The absence of protein expression for MLH1 and PMS2 previously detected for the tumor of this patient could be the result of a somatic alteration rather than a germline mutation. MLH1 Hypermethylation and BRAF Mutation Analyses (Mayo test code MLBRF/87931) may help to distinguish a somatic versus germline event. This testing can be performed on colon tumor that demonstrates loss of MLH1 protein expression if available for this individual. Additionally, the clinical phenotype that is observed in this patient might be due to disease causing mutations in one of the other genes involved in DNA mismatch repair.			
		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.			

Performing Site Legend on Last Page of Report

Patient Name SAMPLEREPORT,MLHMS	Collection Date and Time 11/06/2012	Report Status Final
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* Report times for Mayo performed tests are CST/CDT

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Bone marrow transplants from allogenic donors will interfere with testing. Call Mayo Medical Laboratories for instructions for testing patients who have received a bone marrow transplant.

Laboratory developed test.

Method

Bi-directional sequence analysis was performed to test for the presence of a mutation in all coding regions and intron/exon boundaries of the MLH1 gene. Additionally, gene dosage analysis (MLPA) is used to test for the presence of large deletions and duplications in the MLH1 gene. Mutation nomenclature is based on GenBank accession number, NM_000249.

MCR

Specimen

Blood

MCR

Reviewed By:

D Brian Dawson PhD

MCR

Release Date

19 Nov 2012 18:59

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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Patient Name SAMPLEREP,MLHMS	Collection Date and Time 11/06/2012	Report Status Final
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