

Laboratory Service Report

1-800-533-1710

Patient Name SAMPLEREPORT, MSIO N	Patient ID SA00058846	Age 46	Gender	Order # SA00058846
Ordering Phys	SA00056646	40	<u> </u> Γ	DOB
CLIENT,CLIENT				06/10/1966
Client Order # SA00058846	Account Information			Report Notes
Collected 06/06/2013 00:00	C7028846-DLMP Roch 3050 Superior Drive	ester		
Printed 06/13/2013 10:29	Rochester, MN 55901			

Test	Flag	Results	Unit	Reference Value	Perform Site
crosatellite Instability, Tumor					
CEIVED: 06/07/2013 14:41 REPOR	TED: 06/13/201	L3 08:30			
Microsatellite Instability, Tum	or				
Specimen		Tissue-Tumor			MC
Specimen ID		1062113			MC
Order Date		10 Jun 2013 09:10			MC
Reason For Referral					MC
Possible diagnosis of Her	editary Nonpol	lyposis Colon Cancer			
(HNPCC)/Lynch syndrome.	Evaluate tumor	tissue for evidence			
of defective DNA mismatch	repair.				
Method					MC
Microscopic examination w	as performed b	y a pathologist to			
identify areas of normal	and tumor for	enrichment by			
macrodissection. A PCR b	ased assay is	used to test for			
tumor microsatellite inst	ability (MSI)	with the use of 5			
mononucleotide repeat mar	kers (BAT25, E	BAT26, Mono27, NR24,			
and NR21). The tumor tis	sue is classif	ied as MSS/MSI-L			
(instability detected in	0 or 1 out of	5 markers), or MSI-H			
(instability in 2 or more	of 5 markers	tested).			
Results					MC
Tumor type: Colorectal ad	enocarcinoma				
MSI: MSS/MSI-L (instabili	ty observed in	o of 5 informative			
markers)					
Interpretation					MC
An MSS/MSI-L phenotype su	ggests the pre	esence of normal DNA			
mismatch repair function	within the tur	nor. Thus, the			
likelihood that this indi	vidual has an	inherited colon			
cancer syndrome due to de	fective DNA mi	lsmatch repair			
(HNPCC/Lynch syndrome) is	reduced but r	not eliminated.			
Harrana than wardta sa		the messibility that			
However, these results ca					
this individual's tumor i	s due to an ir	mericea defect in			

However, these results cannot rule out the possibility that this individual's tumor is due to an inherited defect in another gene not involved in mismatch repair. A significant fraction of clinically defined HNPCC cases (30% or more) do not have defective DNA mismatch repair as the underlying genetic basis of their disease.

Additionally, we cannot rule out the possibility that this individual or family has HNPCC/Lynch syndrome because this tumor could represent a sporadic occurrence. If there is a strong personal or family history of HNPCC/Lynch syndrome related cancers for this patient or if this individual has multiple tumors, consider microsatellite instability (MSI) and immunohistochemical staining (IHC) on a different tumor

Performing Site Legend on Last Page of Report

Patient Name	Collection Date and Time	Report Status		
SAMPLEREPORT,MSIO N	06/06/2013 00:00	Final		
Page 1 of 2		>> Continued on Next Page >>		

^{*} Report times for Mayo performed tests are CST/CDT



Laboratory Service Report

1-800-533-1710

MCR

MCR

 ${\tt MCR}$

Patient Name SAMPLEREPORT,MSIO N	Patient ID SA00058846	Age 46	Gender F	Order # SA00058846
Ordering Phys CLIENT,CLIENT				DOB 06/10/1966
Client Order # SA00058846	Account Information			Report Notes
Collected 06/06/2013 00:00	C7028846-DLMP Rochester 3050 Superior Drive			
Printed 06/13/2013 10:29	Rochester, MN 55901			

Reference Perform
Test Flag Results Unit Value Site*

to further evaluate the possible role of defective DNA mismatch repair for this individual or family.

Of note, the literature suggests that MSI analysis on neoadjuvant chemoradiated tumor specimens may influence MSI status and lead to an erroneous interpretation of results (Int J Radiat Oncol Biol Phys. 2007 68(5):1584).

Due to the sensitivity of the method being used, microsatellite instability cannot be reliably detected in samples containing less than 30% tumor DNA. Samples are routinely macrodissected to enrich for tumor cells, with those less than 30% rejected from further testing.

A genetic consultation may be of benefit.

CAUTIONS:

Test results should be interpreted in context of clinical findings, family history, and other laboratory data. If results obtained do not match other clinical or laboratory findings, please contact the laboratory for possible interpretation. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.

Laboratory developed test.

Extraction Performed?
Consultant
Emily Christine Lauer

Yes.

Report Date 13 Jun 2013 08:28

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:

Patient Name	Collection Date and Time	Report Status
SAMPLEREPORT, MSIO N	06/06/2013 00:00	Final
Page 2 of 2		** End of Report **

^{*} Report times for Mayo performed tests are CST/CDT