

# **Laboratory Service Report**

# 1-800-533-1710

Patient Name SAMPLEREPORT, CANCP	Patient ID SA00065683	<b>Age</b> 48	Gender M	<b>Order #</b> SA00065683	
Ordering Phys CLIENT,CLIENT				<b>DOB</b> 06/12/1965	
Client Order # SA00065683	Account Information			Report Notes	
<b>Collected</b> 02/20/2014 00:00	SDSC 2 - Client Suppo	C7028846-DLMP Rochester SDSC 2 - Client Support			
<b>Printed</b> 03/27/2014 14:38	Rochester, MN 55901				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Solid Tumor Targeted Cancer Panel	- 00/00/00/				
RECEIVED: 02/20/2014 07:26 REPORTED Result Summary	<b>):</b> 02/20/201	.4 08:11			MCR
ALTERATION(S) IDENTIFIED (se	ee below)				MCR
Provided diagnosis: Colorect	tal adenocar	cinoma			ricit
Gene: KRAS DNA change: c.35G>T Amino Acid change: p.G12V (Classification: MUTATION	Gly12Val)				
Interpretation					MCR
ASSOCIATIONS BETWEEN KRAS ME Approximately 35% of patient somatic mutation in the KRAS primarily those occurring at in constitutive activation of pathway.	ts with cold gene (1). c codons 12,	rectal cancer h KRAS mutations, 13, and 61, re	ave a		
Current data suggests that therapies in colorectal cand tumors lacking KRAS mutation mutation within this tumors therapies may have limited to patient (2).	cer is limit ns. Thus, th suggests tha	ed to patients be detection of t EGFR-targeted	with		
Additional Information  Possible clinical trials of	henefit for	CLINICAL TRIALS			MCR
found at the following sites		enio pacione o			
<pre>1) ClinicalTrials.gov: http://clinicaltrials.gov/cf</pre>	-2/search/ad	Ivanced			
2) Mayo Clinic:	22, 5001011, 00	rvaneca			
http://www.mayo.edu/research		rials/			
http://www.cancer.gov/clinic		arch			
REFERENCES					
<ol> <li>http://cancer.sanger.ac.</li> <li>Ann Oncol. 2013 Aug;24(8)</li> </ol>	_		smic/		
LOW COVERAGE AREAS (<100X) None.					
CAUTIONS CLINICAL CORRELATIONS					

### \*\*\*Performing Site Legend on Last Page of Report\*\*\*

Patient Name	<b>Collection Date and Time</b>	Report Status			
SAMPLEREPORT, CANCP	02/20/2014 00:00	Final			
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<sup>\*</sup> Report times for Mayo performed tests are CST/CDT



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Test Flag Results Unit Value Site\*

Test results should be interpreted in context of clinical findings, tumor sampling, histopathology, 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.

The presence or absence of a mutation may not be predictive of response to therapy in all patients.

#### TECHNICAL LIMITATIONS

This test does not detect large insertions, deletions, or duplications or genomic copy number variants.

This assay has been shown to detect >99% of single base substitutions and >93% of known COSMIC insertions and deletions up to 22bp in length within the reportable range.

A negative (wild type) result does not rule out the presence of a mutation that may be present but below the limits of detection of this assay (approximately 5-10%).

Rare polymorphisms may be present that could lead to false negative or false positive results.

This test cannot differentiate between somatic and germline alterations. Additional testing may be necessary to clarify the significance of results if there is a potential hereditary risk.

Metastatic and corresponding primary lesions may have discordant results.

TEST CLASSIFICATION

Laboratory developed test.

### Method

Microscopic examination was performed by a pathologist to identify areas of tumor for enrichment by macrodissection. Next generation sequencing is performed to test for the presence of a mutation in targeted regions of the following genes: ABL1, AKT1, ALK, APC, ATM, BRAF, CDH1, CDKN2A, CSF1R, CTNNB1, EGFR, ERBB2, ERBB4, EZH2, FBXW7, FGFR1, FGFR2, FGFR3, FLT3, GNA11, GNAQ, GNAS, HNF1A, HRAS, IDH1, IDH2,

MCR

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Reference Perform Test Flag Results Unit Value Site\* JAK2, JAK3, KDR, KIT, KRAS, MET, MLH1, MPL, NOTCH1, NPM1, NRAS, PDGFRA, PIK3CA, PTEN, PTPN11, RB1, RET, SMAD4, SMARCB1, SMO, SRC, STK11, TP53, VHL. See www.mayomedicallaboratories.com (Test ID CANCP) for additional information about this test, including the specific regions covered by this assay. Tissue-Tumor MCR Specimen Reviewed By MCR Kevin Carl Halling MD, PhD 20 Feb 2014 08:10 MCR Release Date

\* Performing Site:

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

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