

Laboratory Service Report

1-800-533-1710

Patient Name SAMPLEREPORT,REVP	Patient ID SA00050382	Age 46	Gender F	Order # SA00050382	
Ordering Phys			•	DOB 06/10/1966	
Client Order # SA00050382	Account Information			Report Notes	
Collected 11/03/2012 23:00	C7028846-DLMP ROO 3050 SUPERIOR DRI	VE			
Printed 11/05/2012 14:50	ROCHESTER,MN 559	901			

Test	Flag Results	Unit	Reference Value	Perform Site*
HGB Electrophoresis, Molecular		REPORTED 1	11/05/2012 14:18	
Alpha Globin Gene Sequencing				MCR
Alpha Globin Gene Sequencing v 14:16; Reflex test not require		at		
Laboratory developed test.				
Beta Globin Gene Sequencing	Performed			MCR
Laboratory developed test.				
Alpha Globin Gene Sequence				MCR
Alpha Globin Gene Sequence was 14:17; Reflex test not require		t		
Beta Globin Gene Sequence	Performed			MCR
Beta Globin Gene Del/Dup				MCR
Beta Globin Gene Del/Dup was o	cancelled on 11/05/2012 at			
14:17; Reflex test not require	ed.			
Laboratory developed test.				
Manual DNA Extraction				MCR
Manual DNA Extraction was cand	celled on 11/05/2012 at 14:	17;		
Reflex test not required.				
Alpha Globin Gene Sequencing (AGGS) Be	eta Globin Gene			
Sequencing (BGGS) and Beta Globin Gene	e Del/Dup (BGDD) are			
laboratory developed tests.				
		REPORTED 1	11/05/2012 14:16	
Hb Variant by Mass Spec, B	Performed			MCR
Laboratory developed test.				
Erythrocytosis Evaluation		REPORTED 1	11/05/2012 14:21	
Erythrocytosis Interpretation				MCR
Designed by Versey Melabor				

Reviewed by Koren Melcher

MOLECULAR RESULTS:

DNA sequence analysis of the Beta gene identifies ${\tt Hb}$ Bethesda, a heterozygous substitution at codon 145 of TAT to CAT, or Tyr to His.

INTERPRETATION:

These results confirm \mbox{Hb} Bethesda. This hemoglobin variant is associated with erythrocytosis and increased oxygen affinity.

Beta Gene Sequencing Method:

Genomic DNA was extracted and Sanger sequencing reactions performed using primers which flank the coding and non-coding portions of the beta (HBB) genes. This method

Performing Site Legend on Last Page of Report

Patient Name	Collection Date and Time	Report Status
SAMPLEREPORT,REVP	11/03/2012 23:00	Final
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^{*} Report times for Mayo performed tests are CST/CDT



Laboratory Service Report

1-800-533-1710

Patient Name SAMPLEREPORT.REVP	Patient ID SA00050382	Age 46	Gender	Order # SA00050382
Ordering Phys	0/10000002	140	'	DOB 06/10/1966
Client Order # SA00050382	Account Information			Report Notes
Collected 11/03/2012 23:00	C7028846-DLMP ROO 3050 SUPERIOR DRI	VE		
Printed 11/05/2012 14:50	ROCHESTER,MN 559	901		

Test	Flag	g Results	Unit		form Site*
allows for detection of hemog caused by point mutations and deletions. Hemoglobin A2 and F	_				
Hemoglobin A2		2.5	%	2.0-3.3	MCR
Hemoglobin F		0.0	8	0.0-0.9	MCR
Hemoglobin Electrophoresis, B					
Hemoglobin A	L	56.0	%	95.8-98.0	MCR
Variant Oxygen Dissociation P50		41.5 = Hb Bethesda	ે	No abnormal variants	MCR
Oxygen Dissociation P50, RBC	L	17	mm Hg	24-30	MCR
IEF Confirms		Performed	-		MCR
			REPORTED 11	/05/2012 14:16	
Hemoglobin, Unstable, B		Normal			MCR

-- REFERENCE VALUE --

Expected result is normal

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.
	200 First St SW Rochester MN 55905	· ·

Patient Name	Collection Date and Time	Report Status
SAMPLEREPORT,REVP	11/03/2012 23:00	Final
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