Patient ID	Patient Name		Birth Date	Gender	Age
SA00048116	SAMPLEREPORT, SLC1B		1966-06-10	F	46
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00048116	SA00048116	Client, Client			
Account Information		**Collected**			
C7028846 DLMP Rochester		30 Jul 2012 13:00			

Rapid DNA Extraction

Comment

MCR

Genomic DNA was extracted.

Received: 31 Jul 2012 10:25 **Reported:** 31 Jul 2012 10:50

Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Dept. of Lab Med and Pathology	200 First Street SW, Rochester, MN 55905

Patient ID	Patient Name		Birth Date	Gender	Age
SA00048116	SAMPLEREPORT, SLC1B		1966-06-10	F	46
Order Number	Client Order Number	Ordering Physician	Report Notes		
SA00048116	SA00048116	Client, Client			
Account Information		Collected			
C7028846 DLMP Rochester		30 Jul 2012 13:00			

SLCO1B1 Genotype, Statin, B

SLCO1B1 Genotype Result

MCR

TT detected

SLCO1B1 Interpretation

MCR

The SLCO1B1 *5 (c.521T>C, p.V174A) allele was not identified (i.e. TT genotype detected) in this individual. This decreases the risk of simvastatin-associated myopathy. However, myopathy related to simvastatin and other statins cannot be ruled out, since other statin intolerance factors may be present (e.g. other genetic factors, drug-drug interactions, etc.).

ADDITIONAL INFORMATION

Absence of the *5 allele does not rule out the possibility that a patient harbors another variant that can impact drug side effects. While SLCO1B1 genotype has been shown to affect systemic exposure of other statins, there is less evidence demonstrating a clinical association between SLCO1B1 genotype and myopathy with statins other than simvastatin.

For additional information regarding pharmacogenomic genes and their associated drugs, please see the Pharmacogenomic Associations Tables on the Mayo Medical Laboratories webpage, www.mayomedicallaboratories.com. This resource also includes information regarding enzyme inhibitors and inducers, as well as potential alternate drug choices. Please note that the information at this link is educational material intended for health care professionals and may not be comprehensive. This educational material is not intended to supersede the care provider's experience and knowledge of her/his patient to establish a diagnosis or a treatment plan. All medications require careful clinical monitoring. Please contact the laboratory at 1–800–533–1710 for further information about pharmacogenomic testing.

Targeted analysis of the SLCO1B1 *5 (c.521T>C, p.V174A, transcript NM_006446.4) allele is performed by a polymerase chain reaction (PCR)-based 5'-nuclease assay using fluorescently labeled detection probes. This DNA test will not detect all SLCO1B1 genetic variants.

CAUTIONS:

Rare variants may be present that could lead to false negative or positive results. If results obtained do not match the clinical findings (phenotype), additional testing should be considered.

Samples may contain donor DNA if obtained from patients who received heterologous blood transfusions or allogeneic blood or marrow transplantation. Results from samples obtained under these circumstances may not accurately reflect the recipient's genotype. For individuals who have received blood transfusions, the genotype usually reverts to that of the recipient within 6 weeks. For individuals who have received allogeneic blood or marrow transplantation, a pre-transplant DNA specimen is recommended for testing. SLCO1B1 genetic test results in patients who have undergone liver transplantation may not accurately reflect the patient's SLCO1B1 status. Laboratory developed test.

Reviewed by

MCR

Jamie Bruflat

Received: 31 Jul 2012 10:25 **Reported:** 31 Jul 2012 10:46

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