

<b>Patient Name</b> SAMPLEREP,HTTO	<b>Patient ID</b> 0000180970	<b>Age</b> 46	<b>Gender</b> F	<b>Order #</b> 0000180970
<b>Ordering Phys</b>				<b>DOB</b> 06/10/1966
<b>Client Order #</b> 0000180970	<b>Account Information</b>			<b>Report Notes</b>
<b>Collected</b> 03/15/2013 01:10	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
<b>Printed</b> 07/01/2013 11:40				

Test	Flag	Results	Unit	Reference Value	Perform Site*
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**Serotonin Transporter (LPR), Saliva**
**RECEIVED:** 03/15/2013 01:10 **REPORTED:** 07/01/2013 11:37

Reviewed by Jennifer Herman

**Serotonin Transporter Genotype**

 MCR  
MCR

This patient is homozygous for the short promoter polymorphism of the serotonin transporter gene. The short promoter allele is reported to decrease expression of the serotonin transporter compared to the homozygous long promoter allele. The patient may experience a delayed response to selective serotonin reuptake inhibitors, or may benefit from non-selective antidepressants.

This testing is performed by PCR amplification of the region surrounding the polymorphism followed by size separation of the products. The serotonin transporter (5-HTT) modulates neurotransmission by facilitating removal of serotonin from the synapse of serotonergic neurons, resulting in serotonin reuptake into the presynaptic terminus. A 44-base pair promoter insertion/deletion polymorphism called LPR, or linked polymorphic region, produces alleles described as long or short. The short allele is dominant and results in decreased concentration of the transporter protein and a poorer response to stressful events. While individuals homozygous for the long allele (l/l) may demonstrate response to SSRI therapy in 3 to 4 weeks, individuals with the short allele (l/s or s/s) may respond to SSRI therapy more slowly.

Laboratory developed test.

## \* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:
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<b>Patient Name</b> SAMPLEREP,HTTO	<b>Collection Date and Time</b> 03/15/2013 01:10	<b>Report Status</b> Final
Page 1 of 1		** End of Report **

\* Report times for Mayo performed tests are CST/CDT