



Patient ID <b>0000180970</b>	Patient Name <b>SAMPLEREPOR, HTTO</b>	Birth Date <b>1966-06-10</b>	Gender <b>F</b>	Age <b>46</b>
Order Number <b>0000180970</b>	Client Order Number <b>0000180970</b>	Ordering Physician ,	Report Notes	
Account Information <b>C7028846 DLMP Rochester</b>		Collected <b>15 Mar 2013 01:10</b>		

## Serotonin Transporter (LPR), Saliva

### Reviewed by

MCR

Jennifer Herman

### Serotonin Transporter Genotype

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.

#### ADDITIONAL INFORMATION

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.

#### CAUTIONS:

If the patient has had an allogeneic blood or marrow transplant or a recent (i.e. less than 6 weeks from time of sample collection) heterologous blood transfusion these results may be inaccurate due to the presence of donor DNA. Laboratory developed test.

**Received:** 15 Mar 2013 01:10

**Reported:** 01 Jul 2013 11:37

#### Performing Site Legend

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