

**THIS IS NOT A TEST REQUEST FORM.**

Please fill out this form and submit it with the test request form or electronic packing list.

**PATIENT HISTORY FOR CREATINE DEFICIENCY SYNDROMES TESTING**

Patient Name \_\_\_\_\_ Date of Birth \_\_\_\_\_ Sex  F  M  
 Physician \_\_\_\_\_ Physician Phone \_\_\_\_\_  
 Practice Specialty \_\_\_\_\_ Physician Fax \_\_\_\_\_  
 Genetic Counselor \_\_\_\_\_ Counselor Phone \_\_\_\_\_

**Patient's Ethnicity** (check all that apply)

African-American  Asian  Hispanic  Native American  
 Ashkenazi Jewish  Caucasian  Middle Eastern  Other: \_\_\_\_\_

**Does the patient have symptoms?**  No  Yes (check all that apply)

Autistic behaviors  Self injury  
 Intellectual disability  Speech/language delay  
 Movement disorder  Other symptom(s): \_\_\_\_\_  
 Seizures

**Laboratory Findings:**

Brain creatine level (by MRS) .....  Normal  Low  High  Not performed  Unknown  
 Guanidinoacetate (plasma) .....  Normal  Low  High  Not performed  Unknown  
 Guanidinoacetate (urine) .....  Normal  Low  High  Not performed  Unknown  
 Creatine (plasma) .....  Normal  Low  High  Not performed  Unknown  
 Creatine (urine) .....  Normal  Low  High  Not performed  Unknown  
 Creatine: creatinine ratio (urine) .....  Normal  Low  High  Not performed  Unknown  
 Creatine transport (fibroblasts) .....  Normal  Abnormal (activity: \_\_\_\_\_)  Not performed  Unknown

**Is there any relevant family history?**  No  Yes  Unknown

If yes, attach a pedigree or specify the relative's relationship to the patient. List their symptoms:

\_\_\_\_\_

**Has DNA testing been performed for the family member(s)?**  No  Yes  Unknown

If yes, attach a copy of the relative's DNA laboratory result. (REQUIRED for familial mutation testing)

**Check the test you intend to order.**

Biochemical Testing

- 2002333 Creatine Disorders Panel, Urine:** Order as initial test with plasma panel in individuals with symptoms or abnormal MRS.
- 2002328 Creatine Disorders Panel, Plasma:** Order as initial test with urine panel in individuals with symptoms or abnormal MRS.

Molecular Testing

- 2008610 Creatine Transport Deficiency (SLC6A8) Sequencing and Deletion/Duplication:** Sequencing of *SLC6A8* coding regions and intron/exon boundaries, MLPA to detect deletions/duplications. Clinical sensitivity 99%.
- 2008615 Creatine Transport Deficiency (SLC6A8) Sequencing:** Sequencing of *SLC6A8* coding regions and intron/exon boundaries. Clinical sensitivity predicted to be up to 99%.
- 2008606 Creatine Transport Deficiency (SLC6A8) Deletion/Duplication:** Deletion/duplication analysis of all *SLC6A8* exons. Clinical sensitivity is unknown, possibly 1–2%.
- 2011144 Arginine: Glycine Amidinotransferase (GATM) Deficiency Sequencing:** Sequencing of the *GATM* coding regions and intron/exon boundaries. Clinical sensitivity predicted to be up to 99%.
- 2011140 Guanidinoacetate Methyltransferase (GAMT) Deficiency Sequencing:** Sequencing of the *GAMT* coding regions and intron/exon boundaries. Clinical sensitivity predicted to be up to 99%.
- 2001961 Familial Mutation, Targeted Sequencing:** Tests for a mutation previously identified in a family member; a copy of relative's lab result is REQUIRED.

**Master Label**

For questions, contact an ARUP genetic counselor at (800) 242-2787, ext. 2141