

CSTB Gene, Repeat Expansion Analysis, Varies

Test ID: CSTB

Useful for:

- Molecular confirmation of clinically suspected *CSTB*-related progressive myoclonic epilepsy
- Identifying full penetrance dodecamer repeat expansions within *CSTB* known to cause *CSTB*-related progressive myoclonic epilepsy, allowing for predictive testing of at-risk family members
- Impacting patient treatment and management through the identification of a specific underlying etiology for epilepsy (eg, directing appropriate use of anti-epileptic drugs and other treatment modalities)

Methods:

Polymerase Chain Reaction (PCR)

Reference Values:

Normal: <5 dodecamer repeats

Repeat Size of Uncertain Significance: 5-29 dodecamer repeats

Full Penetrance Expansion: >29 dodecamer repeats

An interpretive report will be provided.

Specimen Requirements:

Patient Preparation: A previous bone marrow transplant from an allogenic donor will interfere with testing. Call 800-533-1710 for instructions for testing patients who have received a bone marrow transplant.

| | |
|--|--|
| Specimen Type: | Whole blood |
| Container/Tube: | |
| Preferred: | Lavender top (EDTA) or yellow top (ACD) |
| Acceptable: | Any anticoagulant |
| Specimen Volume: | 3 mL |
| Collection Instructions: | 1. Invert several times to mix blood. 2. Send whole blood specimen in original tube. Do not aliquot. |
| Specimen Stability Information: | Ambient (preferred)/Refrigerated |
| Minimum Volume: | 1 mL |

Note:

Specimen preferred to arrive within 96 hours of collection.

Specimen Stability Information:

| Specimen Type | Temperature | Time | Special Container |
|---------------|---------------------|------|-------------------|
| Varies | Ambient (preferred) | | |
| | Frozen | | |
| | Refrigerated | | |

Cautions:

- For predictive testing, it is important to first document the molecular etiology of disease in an affected family member to confirm that a *CSTB* repeat expansion is the underlying mechanism of disease in the family. Specifically, this assay will not detect nonrepeat expansion variants and progressive myoclonic epilepsy may be caused by variants in other genes.
- It is recommended that patients undergoing predictive testing receive genetic counseling both prior to testing and after results are available.
- Test results should be interpreted in the context of clinical findings, family history, and other laboratory data. Errors in test interpretation may occur if the provided information is inaccurate or incomplete.
- Rare variants (ie, polymorphisms) exist which could lead to false-negative results.
- Bone marrow transplants from allogenic donors will interfere with testing. Call Mayo Clinic Laboratories for instructions for testing patients who have received a bone marrow transplant.

CPT Code:

81188

Day(s) Performed: Varies

Report Available: 28 to 42 days

Questions

Contact Michelle Rath, Laboratory Technologist Resource Coordinator at 800-533-1710.