Lab Dept: Anatomic Pathology

Test Name: COMPREHENSIVE EPILEPSY PANEL

General Information

Lab Order Codes:	CEPL
Synonyms:	N/A
CPT Codes:	81479 – Unlisted molecular pathology procedure
Test Includes:	Sequence Analysis and Exon-level Deletion/Duplication testing. The panel analyzes 187 genes that are associated with both syndromic and non-syndromic causes of epilepsy.

Logistics

Test Indications:	Given the clinical overlap between epilepsy disorders, comprehensive testing allows for more efficient evaluation of multiple conditions based on a single indication for testing. Identification of the molecular basis of the disease in an affected individual may confirm diagnosis, predict prognosis, and encourage testing of additional family members to inform reproductive risk. Note: This assay includes sequencing and deletion analysis of UBE3A, but does not detect uniparental disomy or imprinting center defects.
Lab Testing Sections:	Anatomic Pathology - Sendouts
Referred to:	Invitae (INVT test: 03401)
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	24 hours, daily
Turnaround Time:	10 – 21 days
Special Instructions:	N/A

Specimen

Specimen Type:	Whole blood
Container:	Lavender (EDTA) top tube Alternate: Buccal Swab

Draw Volume:	3 mL (Minimum: 1.5 mL) whole blood
Processed Volume:	**Do Not** process or centrifuge whole blood. Submit EDTA whole blood in original container.
Collection:	Routine blood collection
Special Processing:	Lab Staff: Store unprocessed blood at room temperature. Ship at room temperature via overnight courier, using a cool pack in hot weather. If shipment is delayed, the specimen should be refrigerated for up to 14 days.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen

Interpretive

Reference Range:	An interpretive report will be provided
Critical Values:	N/A
Limitations:	The clinical sensitivity of this test is dependent on the patient's underlying genetic condition.
Methodology:	Next-generation Sequencing (NGS)
References:	Invitae January 2019
Updates:	8/25/2015:CPT update. 4/16/2018: CPT and gene list update. 1/16/2019: Testing moved from GeneDx to Invitae 8/17/22: Added Alt specimen