
Lab Dept: **Anatomic Pathology**

Test Name: **COMPREHENSIVE EPILEPSY PANEL**

General Information

Lab Order Codes: CEPL

Synonyms: Invitae Epilepsy Panel

CPT Codes: 81479 – Unlisted molecular pathology procedure

Test Includes: Sequence Analysis and Exon-level Deletion/Duplication testing. See the reference lab catalog for the genes tested 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. Invitae accepts specimen deliveries Monday-Saturday.

Turnaround Time: 10 – 21 days

Special Instructions: **The ordering provider must complete and sign the required Invitae requisition form, found on the Invitae website [Invitae Neurology Requisition Form](#).**

Send this form with the specimen or contact our Lab Sendouts department for delivery options.

Patient insurance or other billing information does **not** need to be filled out by ordering providers.

Specimen

Specimen Type:	Whole blood or buccal swab
Container:	Lavender (EDTA) top tube Alternate: Buccal Swab Invitae kit available from the Sendouts lab department.
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:	Blood: Routine blood collection Swab: ORAcollect Dx OCD-100 cheek swabs (2 swabs must be collected per patient per order)
Special Processing:	Lab Staff: Store unprocessed blood or swabs at room temperature. Ship at room temperature via overnight courier, using a cool pack in hot weather. Blood specimens are stable at room temperature for 48 hours and refrigerated for up to 14 days. Swabs are stable at room temperature for up to 30 days. However, prompt shipment provides the best results.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen; frozen specimens, specimens in incorrect container

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 October 2024
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 10/4/2024: Added specimen stability and instruction for REQUIRED test requisition form.

