Genomic Testing: Clinical Exome & Whole Exome

Expand Your Options

Clinical and Whole Exome Sequencing are patient-centric, phenotype-driven analyses designed to examine coding regions and splice junctions for thousands of genes, and report only the variants that are of plausible clinical relevance to your patient.

Fulgent Offers Two Customizable And Comprehensive Exome Sequencing Options:

Clinical Exome Sequencing

Clinical Exome Sequencing tests over 6,500 genes known to be associated with inherited conditions. This option is ideal for patients with a clinical presentation indicative of a genetic syndrome not specific enough to point to a single condition.

This test uses our custom-designed capture set, which is continuously improved and re-validated to cover the most clinically relevant genes and mutations.

Whole Exome Sequencing

Whole Exome Sequencing tests over 20,000 genes throughout the human genome. This option is ideal for patients for whom previous focused testing has been negative or those who have a complex or very rare combination of phenotypes that are not suggestive of any recognizable syndrome.

Features

- Standard coverage is ~99% at 20x with del/dup analysis.
- Optional addition of RNA analysis (RISE) enables keeper characterization of functional impact.
- You may elect to opt out of the return of uncertain results (VUS).
- Prenatal testing options are available for ulrtasound findings.
- Duo and Trio analysis of the patient's biological relatives is available at no extra cost.
- Patients may elect to may or may not receive medically actionable secondary/incidental findings (following ACMG guidelines).

Specimen Requirements

Turnaround Time 5-7 weeks

- An additional 1-2 week TAT with RISE

1 x 4 mL EDTA (purple top) tube

- Test orders including RISE must be received within 48 hours of sample collection.†
- If submitting family member samples, please include them with the proband's sample to avoid delays. Family member samples and information **must be received within 3 weeks** of the proband's sample receipt to be included in the proband's analysis.

Family history and clinical information is required.

Resources

Exome Testing
Scan QR code to learn more.

Expanded Insights with RNA-Integrated Sequence Evaluation (RISE)
Scan QR code to learn more.

*Duo and Trio analysis is offered at no extra cost
†RISE is not available prenatally

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 D# FLY-Exome-2025-V2