

Confidently confirm your diagnosis with our targeted panels

Utilize our Fixed NGS Panels

Our curated panels span all medical specialties, providing focused genetic testing to inform accurate diagnoses.

Fixed Panels are best suited for physicians who:

- Seek confirmatory diagnostic testing for patients with suspected phenotypes
- Prefer to minimize the likelihood of identifying variants of uncertain significance (VUS)
- Would like to test only those genes most commonly associated with the suspected phenotype

Key features include:

- Increased coverage of all genes on the selected panel
- Curated panels with more focused gene content means less likelihood of a VUS
- All sequencing includes repeat expansion, when applicable
- CNV detection by NGS included
- Sanger fill-in to achieve 100% coverage is available

Test Methodology

Coverage*	>98% of targeted bases covered at minimum 20x
Genes Covered	Varies by panel
Genomic Regions Covered	Exons, deep intronic mutations, 20bp exon/intron boundaries
Read Depth	150x average read depth
Turn-Around Time	4-6 weeks
CNV Detection by NGS**	Included
Mitochondrial Genome	Available as an add-on
Repeat Expansion Testing	Included in applicable panels
Prenatal Testing	Available on request
Available as Singleton (solo) or Trio	Solo only
Reflex to Larger Data	Available on request
Availability of Research Report	Not available
Availability of Raw Data	Available on request

* Sanger fill-in of missing regions to achieve 100% coverage is available at an additional cost. **MLPA- and qPCR-based analyses also available. Current as of July 2019. As technology improves and is clinically validated, so does our methodology. Please contact us for more details.



Each diagnostic report is:

Validated by a team of renowned and experienced clinical specialists



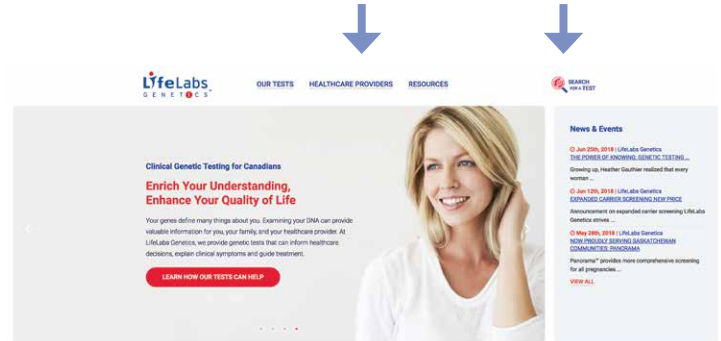
Cross-checked against CentoMD®, an extensive and evolving database of known mutations, as well as HGMD and ClinVar



Comprehensive and includes a description of the testing method and a full explanation of results & recommendations

Ordering instructions

1 Use the **LifeLabsGenetics.com search tool** to identify the panel(s) that best represents the patient's clinical indications and **download the hereditary testing requisition form** from the Healthcare Providers tab.



2 The Ordering Checklist on **page 1** can be used to ensure you've completed all the necessary pages of the requisition.

Ordering Checklist		Sample type		
Known variant	Must complete pages 1, 2, & 3 <input type="checkbox"/> Physician, patient, & test information (p1-2) <input type="checkbox"/> Informed consent (p3)	<input type="checkbox"/> Blood-Adult (2 x 4ml EDTA)	4005	LL TC
Single gene		<input type="checkbox"/> Blood-Pediatric (1 x 2ml EDTA)	4008	ACG
Fx Panels	Must complete pages 1-5 <input type="checkbox"/> Physician, patient, & test information (p1-2) <input type="checkbox"/> Informed consent (p3-4) <input type="checkbox"/> Clinical features checklist (p5)	<input type="checkbox"/> Purified DNA (single genes: 1-10ug; Panels: 10-100ug)	4014	CEN OCG
Ex Panels		<input type="checkbox"/> Filter card*	4014	OCG
ProGx Panels		<input type="checkbox"/> Other**	4014	OCG
Whole Exome Sequencing (WES)	Must complete pages 1-8 (if applicable) <input type="checkbox"/> Physician, patient, & test information (p1-2) <input type="checkbox"/> Informed consent (p3-4) <input type="checkbox"/> Clinical features checklist (p5) <input type="checkbox"/> Parental 1 & 2 requisitions (p6-7) (if file selected) <input type="checkbox"/> Additional Family Member requisition (p8) (if ProGx selected OR Parental samples unavailable)	* Available by request. Please contact LifeLabs Genetics. ** Other sample types are permitted. Please contact LifeLabs Genetics for details.		
Whole Genome Sequencing (WGS)		Please contact LifeLabs Genetics before shipping prenatal samples. Samples should be shipped directly to Centogene.		
Date Sample Collected:	MM DD YYYY	Time Collected:	HH MM	Collector Name:

3 In the Testing for Single Gene(s) or Fixed Panel(s) section on **page 2** of the requisition form, write the panel name(s) and test code(s) found on the LifeLabs Genetics website and select the methodologies (sequencing, deletion/duplication, etc.).

Testing for Single Gene(s) or Fixed Panel(s): Please use the online catalogue to find test code & names www.lifelabsgenetics.com/hereditary-conditions

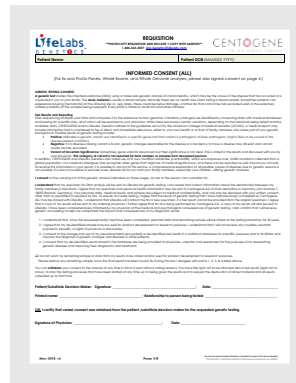
Test Code(s): _____

Test Name(s): _____

Please contact LifeLabs Genetics to receive a Reference Number for your request

Single Genes <input type="checkbox"/> Sequencing + Deletion/Duplication (by NGS Panel Plus+CNV) <input type="checkbox"/> Sequencing (by NGS Panel Plus) <input type="checkbox"/> Deletion/Duplication Testing <input type="checkbox"/> Repeat Expansion	Fixed Panels <input type="checkbox"/> Sequencing + Deletion/Duplication (by NGS Panel+CNV) <input type="checkbox"/> Sequencing (by NGS Panel) <input type="checkbox"/> Deletion/Duplication Testing <input type="checkbox"/> Repeat Expansion (included in Sequencing, if applicable)
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4 You are only required to complete the first page of the Informed Consent.



! For all testing, we strongly encourage you to provide the patient's in-depth medical history to ensure the most comprehensive analysis and interpretation of the genetic testing results. This can be done through any of the following three ways:

- Writing in the Relevant Medical and Family History section on **page 1**
- Completing the checkboxes on **page 5**
- Providing the patient's hospital charts