LifeLabs GENETICS™

Fixed Panels

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
- Availability of deletion/duplication testing as an add-on
- 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, 10bp exon/intron boundaries
Read Depth	150x average read depth
Turn-Around Time	4-6 weeks
Deletion/Duplication**	NGS-based analyses available as an add-on
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	Not available
Availability of Research Report	Not available
Availability of Raw Data	Not available

* 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 May 2018. 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

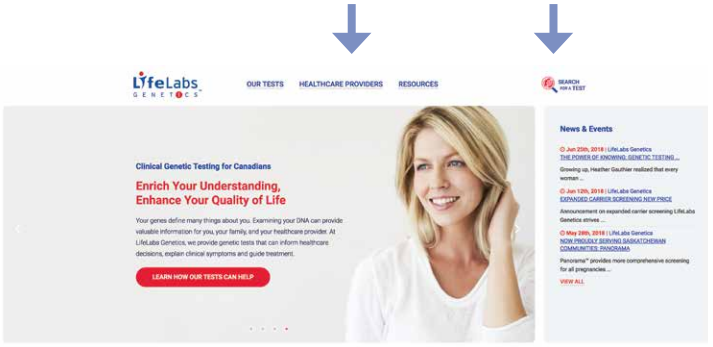
Comprehensive and includes a description of the testing method and a full explanation of results & recommendations

Visit www.lifelabsgenetics.com to learn more about custom diagnostic panels.
Contact us Ask.Genetics@LifeLabs.com | 1-84-GENEHELP (1-844-363-4357)

Fixed Panels

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.

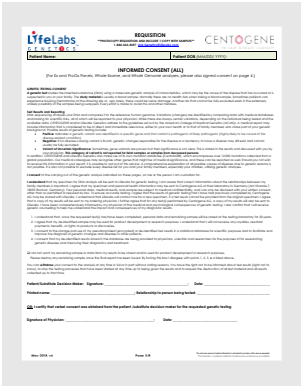
Ordering Checklist		Sample Type		
Known variant Single gene	Must complete pages 1, 2, & 3 □ Physician, patient, & test information (p1-2) □ Informed consent (p3)		LL TC	Mnemonic
Fx Panels Ex Panels ProGx Panels	Must complete pages 1-5 □ Physician, patient, & test information (p1-2) □ Informed consent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

Date Sample Collected:	M M D D Y Y Y Y	Time Collected:	H H M M	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** ❑ Sequencing + Deletion/Duplication *(by NGS Panel Plus+CNV)* ❑ Sequencing *(by NGS Panel Plus)* ❑ Deletion/Duplication Testing ❑ Repeat Expansion	**Fixed Panels** ❑ Sequencing + Deletion/Duplication *(by NGS Panel+CNV)* ❑ Sequencing *(by NGS Panel)* ❑ Deletion/Duplication Testing ❑ Repeat Expansion *(included in Sequencing, if applicable)*

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