

This requisition form can be used to submit an order for the Long-Chain Fatty Acid Oxidation Disorders Program, a sponsored testing program for genetic disorders brought to you by Ultragenyx Pharmaceutical Inc. and Invitae Corporation.

INSTRUCTIONS: Review the ordering options and then complete all sections of this form. Your ordering option will be indicated in the test selection section.

## ORDERING OPTIONS

## 1. LONG-CHAIN FATTY ACID OXIDATION DISORDERS PROGRAM

For individuals that meet the eligibility criteria below and wish to receive the program specific genetic testing panels.

REQUIRED: You must select below the appropriate eligibility criteria for this patient.

This program is available to patients in the US and Canada who meet at least one of the following criteria:

O The patient has completed the UltraCare Start Form for LC-FAOD (If available, please provide a copy of abnormal biochemical confirmatory labs) OR

O Patient is suspected of having, or has been diagnosed with a long-chain fatty acid oxidation disorder (check at least one) AND a plasma acylcarnitine test has either been performed (regardless of result - abnormal or normal) or has been ordered.

O Carnitine palmitoyltransferase (CPT) IA deficiency

- O Carnitine-acylcarnitine translocase (CACT) deficiency/
- Carnitine palmitoyltransferase (CPT) II deficiency
- O Long-chain 3-hydroxyacyl-CoA dehydrogenase (LCHAD) deficiency/Mitochondrial trifunctional protein (TFP) deficiency
- O Very long-chain acyl-CoA dehydrogenase (VLCAD) deficiency

## 2. GENE-SPECIFIC FAMILY FOLLOW-UP TESTING

For relatives of program participants who received a Pathogenic/Likely Pathogenic result or approved VUS who want to receive gene specific family follow-up testing at no additional cost. Relatives do not need to meet the eligibility criteria listed above. Learn more at www.invitae.com/family.

PA	TIENT	INFO	RMATIC	<b>N</b>	CLINICIAN INFORMATION			
First name MI Last name			Organization name					
Date of birth (MM/DD/YYYY) Biological sex MRN (medical OM OF		record number)	Phone		Fax			
Ancestry OAsian OBlack/African American OWhite/Caucasian OAshkenazi Jewish OHispanic ONative American OPacific Islander OFrench Canadian				Address City		,		
O Sephardic Jewish O Mediterranean O Other: _				State/Prov	ZIP/Postal code	Coun	try	
Phone Email address (report access after clinician releases)					Primary clinical contact name (if different from ordering provider) NPI			
Address City					Primary clinical contact email address (for report access)			
State/Prov	ZIP/Posta	al code	Countr	у	Ordering provider (	select <u>one</u> ordering provid	ler by marking	; the checkbox before the name)
Ship a saliva kit to this patient (to submit, fax this form to Client Services at 415-276-4164) O Ship kit to address above O Ship kit to alternate address:						NPI		
SPECIMEN INFORMATION					0			
Specimen type: Blood (3-mL purple EDTA) -OR- Saliva (Oragene <sup>™</sup> ) -OR- Assisted Saliva -OR- DNA source: We are unable to accept blood/saliva from patients with:					0			
Allogeneic bone marrow transpl	ants •	Blood trai	nsfusion < 2 w	eeks prior to specimen collection				
Specimen collection date (MM/DD/YYYY):							• · · ·	share access to order online) nical team, manage at invitae.com
Special cases: O History of/c	current her	matologic	c malignancy i	in patient	Name		Email addres	ss (for report access)
INVITAE PARTNER		E F.	AOD		Name		Email addres	ss (for report access)



## LONG-CHAIN FATTY ACID OXIDATION DISORDERS

CLINICAL HISTORY									
FAMILY HISTORY									
Is there a family history of disease for which the patient is being tested? OYes ONo If yes, describe below and attach pedigree and/or clinical notes.									
Relative's relationship to this patient	Maternal or paternal	Diagnosed condition		Age at diagnosis	Relative's relationship to this patient	Maternal or paternal	Diagnosed condition	Age at diagnosis	
PERSONAL HISTORY							·		
		nptomatic?† OYes ON I history questions (if applicabl							
REQUIRED CLINICAL	HISTORY								
Outcome of Newbor	Outcome of Newborn Screen (NBS) Please provide a copy of the plasma acylcarnitine results. Providing a copy of plasma acylcarnitines results,								
O Positive – Suspec	cted disorder		or any other confirmatory tests, when available, is strongly encouraged. These results are helpful for variant interpretation and in some cases can make a difference for the final interpretation of the variant.						
ONegative		OPlasma acylcarnitine or confirmatory results attached							
OUnknown		O Test results unavailable							
Outcome of confirmatory testing (e.g. acylcarnitine test) What prompted you to suspect this patient may have a long-chain fatty acid oxidation disorder? (Exclude PHI)							clude PHI)		
OPositive – Disord			······		.,				
OInconclusive – D									
ONegative									
If confirmatory test v conducting this gene	vas positive, v etic test? (che	what is the reason for ck all that apply)							
OPayer requirement	nt								
ODifferential diagr	O Differential diagnosis (between LC-FAOD types)								
ODistinguish affec	ted versus ca	rrier status	Ongoing clinical features: (check all that apply)						
OUnderstand disease course/prognosis			OCardiomyopathy OMyoglobinuria						
OInform treatment decision			-	ed creatinine	kinase		O Peripheral neuropathy		
OGenetic counseli	ng		Hepate	omegaly			O Reye like syndrome		
Oldentify at-risk fa	mily member	S		etotic hypogl	ycemia	-	O Rhabdomyolysis		
OResearch			O Liver fa	ailure		C	Retinitis pigmentosa		
OOther		OMuscle	Muscle myopathy OOther						

OPTIONAL - REQUES	TED VARIANTS FOR THIS PATIENT'S REPO	DRT, IF KNOWN
To have the presence or absence of specific variants commented	on in this patient's report, provide the details below. For <u>gene-sp</u>	pecific family follow-up see <b>Note</b> under Test Selection.
Was the proband (individual with variant) tested at Invitae?	O Yes, Invitae Order ID: RQ#	O No: Attach copy of lab results ( <i>required</i> )
Variant(s) (e.g. GENE c.2200A>T (p.Thr734Ser) NM_00012345) If lef	t blank, all variants identified in the proband will be commented on.	This patient's relationship to proband:
		OParent OSibling OGrandchild
		OChild OSelf OOther:



Test code	Test name		# of genes	Gene list
06165	i165 Invitae Fatty Acid Oxidation Defects Panel		17	ACADM, ACADS, ACADSB, ACADVL, CPT1A, CPT2, ETFA, ETFB, ETFDH, HADH, HADHA, HADH HMGCL, HMGCS2, MLYCD, SLC22A5, SLC25A20
	06165.1	Add-on 4-Dienoyl-CoA reductase deficiency	1	NADK2
	06165.2	Add-on Riboflavin transporter deficiency	3	SLC52A1, SLC52A2, SLC52A3

RQ#	O Parent O Sibling O Grandchild O Child O Other:	
NOTE: The presence or absence of all	l variants identified in the proband for the gene(s) ordered for	gene-specific family follow-up will be commented on in this patient's report unless a limited selection is
specified in the <b>Requested Variants</b> se	ection above. Invitae will report any Pathogenic/Likely Patho	genic variants found in this patient for the gene(s) ordered.

Invitae continually updates its panels based on the most recent evidence. If an order is placed using an outdated test requisition form, Invitae reserves the right to upgrade ordered tests to their current versions. Test IDs containing add-on codes will include the original panel as well as the add-on.

By signing this form, the medical professional acknowledges that the individual/family member authorized to make decisions for the individual (collectively, the "Patient") has been supplied information regarding and consented to undergo genetic testing, substantially as set forth in Invitae's Informed Consent for Genetic Testing (www.invitae.com/forms). In connection with the Program the Patient has been informed that Invitae may notify them of clinical updates related to genetic test results (in consultation with the ordering medical professional as indicated) and has been informed that devidentified Patient data may be used and shared with third parties, for research and commercial purposes and, in the U.S. to contact their medical professional. For orders originating in Canada, the Patient has been informed that their personal information and specimen will be transferred to and processed in the U.S. and that de-identified Patient data may be used and shared for research and commercial purposes in the U.S. The medical professional warrants that he/she will not seek reimbursement for this no-charge test from any third party, including but not limited to federal healthcare programs. The medical professional also hereby acknowledges that organization and clinician contact information provided in the order may be shared with third parties, including commercial organizations, that may contact the medical professional directly in connection with the Program, and that they have made the Patient aware that de-identified Patient data may be used and shared with such third parties, for purposes which include contacting their medical professional directly in connection with the Program. A list of third party partners may be used and shared with the rogram. A list of third parties have to and processed in the U.S. and that de-identified Patient data may be used and shared with third parties, including commercial organizations, that may contact the medical professional directly in connection with the Program. A list of th

Medical professional signature (required)	Date (MM/DD/YYYY)