



ORDER IDFor Invitae internal use only

Requisition Form PATH4WARD TRF950-3

This requisition form can be used to submit a specimen for the PATH4WARD program, a complimentary Invitae Severe Congenital Neutropenia (SCN) Panel U.S. testing program brought to you by X4 Pharmaceuticals, Inc. and Invitae Corporation. Please confirm that the patient meets the eligibility requirements for the program. To submit orders for genetic testing outside of this program, please order through Invitae's online portal or use a standard requisition form, accessible at www.invitae.com/order-forms.

REQUIRED PROGRAM ELIGIBILITY:

This program is available to patients in the U.S. and Canada with a history of chronic severe neutropenia (ANC \leq 500/uL), permanent or intermittent (cyclical), of unknown origin, AND with a clinical presentation compatible with chronic idiopathic neutropenia or severe congenital neutropenia.

		FORMATION	N		PRACTICE IN	FORMATION	DN	
First name	MI	Last name		Practice name and	address			
	cal sex	MRN (medica	record number)	Institution/practice na	ime			
Ancestry Asian Black/African American White/Caucasian Ashkenazi Jewis			aucasian Ashkenazi lewish	Phone		Fax		
Hispanic Native American Pacific Islander French Canadian				Address			Cit.	
Sephardic Jewish M			Address			City		
Phone	Email	address	◀	State	ZIP code	Country		
Address			City	Primary clinical cor	ntact			
				Name	11444	Role/title		
State ZIP code		Country		. Tuille				
SPECIMEN INFORMATION				Phone		NPI		
Label each tube with the patient's full na A requisition form MUST accompany ea				Email address (for rep	ort access)			
Specimen type : O Blood O Saliva				Ordering physician				
DNA must be extracted in a CLIA or othe			tory	Same as primary clinical contact				
We are unable to accept blood/saliva from patients with: • Allogeneic bone marrow transplants • Blood transfusion <2 weeks prior to specimen collection			weeks prior to specimen collection	Name NPI				
Collection date (MM/DD/YYYY)			be 1 day prior to our receipt of vide date retrieved from archive.	Email address (for rep	ort access)			
Special cases: O History of/current h	ematolo	gic malignancy		Additional clinical	or laboratory contact (o	ptional)		
REASON FOR TESTING				Name Email address (for report access)				
Previous results (if applicable and not	included	d in clinical criter	a - enclose conv of renort)					
Previous results (if applicable and not included in clinical criteria - enclose copy of report)				INVITAE PARTNER CODE PATH				
					FAMILY VARIA	ANT TESTI	NG	
PATH4WARD PROGRAM EL	IGIBI	LITY/CLINI	CAL INFORMATION	Invitae's family var	iant testing programs i	nvolves full an	alysis of the gene in	
Required patient information:				which the original	family member's variar			tion,
Required eligibility:				visit www.invitae.c	om/family-testing.			
History of chronic severe neutro	penia (ANC ≤ 500/ul	.), permanent or	Please attach the proband's clinical report or provide Invitae RQ#				
intermittent (cyclical), of unknown	vn orig	in		INVITAE PROBAND RQ#	RELATIONSHIP TO PROBAND	GENE(S)	VARIANT(S)	
AND								
Clinical presentation compatible	with c	hronic idiopat	hic neutropenia or severe					
congenital neutropenia								
Additional clinical criteria (optional):							
Bronchiectasis								
Cervical dysplasia and cancer								
Congenital heart anomalies								
COPD								
Extra-hematopoietic manifestati		g., central ner	ous system, pancreas deficien	icy, etc.)				
Familial history of similar sympt	oms							
Hearing Loss								
Hypogammaglobulinemia								
Myelokathexis								
Recurrent or severe infections (e.		s, gingivitis, pr	neumonia, skin infections, etc.)					
Severe or long-lasting refractory	warts							



RE-REQUISITION

The PATH4WARD Program offers one re-requisition to the Invitae Primary Immunodeficiency (PID) Panel at no additional cost within 90 days. For more information and to request online, please visit www.invitae.com/re-requisition.

Check here if you would like to automatically reflex to the Invitae Primary Immunodeficiency (PID)
Panel upon a negative result in the Invitae Severe Congenital Neutropenia (SCN) Panel.

ASSAY

Invitae is a CAP-accredited and CLIA-certified clinical diagnostic laboratory performing full-gene sequencing and deletion/duplication analysis using next-generation sequencing technology (NGS). Search for details on the analysis of any gene in our test catalog at www.invitae.com/physician/search.

To request a complimentary specimen collection kit visit www.invitae.com/request-a-kit

SHIPPING INSTRUCTIONS

Please ship specimen to Invitae:

Attn: Invitae Client Services 1400 16th Street San Francisco, CA 94103 USA

Invitae continually updates its panels based on the most recent evidence. Please note that if an order is placed using an older version of this form, Invitae reserves the right to upgrade any ordered panel(s) to the current version(s).

TESTS INCLUDED IN THE PROGRAM								
Test code	Test name	# of genes	Gene list					
O zmdbv8hn	Invitae Severe Congenital Neutropenia Panel	23	AK2, AP3B1, CD40LG, CLPB, CSF3R, CXCR4, ELANE, G6PC3, GATA2, GFI1, HAX1, JAGN1, LAMTOR2, LYST, RAB27A, RMRP, SLC37A4, STK4, TAZ, TCN2, VPS13B, VPS45, WAS					

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/patient-consent). And in connection with the PATH4WARD 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 Invitae may share clinician and institution contact information and certain Patient de-identified information (age, gene, variant, and classification) but not including the name of Patient or Patient's guardian, with third parties, including X4 Pharmaceuticals, for research and commercial purposes and to contact their medical professional. The Patient has been informed that (i) the Patient's personal information and specimen will be transferred from Canada to the U.S. for processing in the U.S. and (ii) 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 sponsored test from any third party, including but not limited to government 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 X4 Pharmaceuticals that may contact the medical professional directly in connection with the PATH4WARD program, or their products. The medical professional understands that the use of this sponsored test is not intended to be, nor should it be construed as, either express or implied, an obligation or inducement for the medical professional to recommend, purchase, order, prescribe, promote, administer or otherwise support any commercial product or any other Invitae

Medical professional signature (required)	Date