



ORDER ID For Invitae internal use only

Requisition Form PATH4WARD TRF950-10

Please use this form to submit an order for the PATH4WARD program, a testing program available for US patients that is sponsored by X4 Pharmaceuticals in partnership with Invitae Corporation - or order online at Invitae.com/path4ward. The objective of this program is to help facilitate the diagnosis of patients suspected of having a congenital neutropenic disorder or a primary immunodeficiency, including WHIM syndrome.

INSTRUCTIONS: Review and indicate your order option in the Test Selection section and then complete all sections of this form. Required 'eligibility criteria' fields are denoted by an asterisk.

PATH4WARD Sponsored Testing Program Eligibility Criteria

For	patients who meet th	e eligibility	criteria	below and wish to receive t	he pr	ogram-	specific genetic t	esting pan	els.				
	REQUIRED	D ELIGIBIL	ITY CR	RITERIA: The patient must	have	ALL TI	HREE (3) of the	following -	– check all app	propriate	selecti	ons be	elow.
	0			2		3							
	Suspicion of one or more		А	A history of the following:*	•	One or more of the following (complete all fields):*							
	of the followin A congenital	ıg:*	(O Absolute neutrophil count (ANC) ≤ 1,000		Personal history of recurrent and/or severe infections			YES	NO ()	UNKNOWN		
	neutropenic disorder A primary immunodeficiency		+	on multiple occasions that is not related to	+	Personal history of lymphopenia							
				drugs or chemotherapy		Pers	onal history of h	ypogamma	globulinemia		0	0	0
				or secondary to viral infection		Personal history of refractory or recalcitrant warts			0	0	0		
						Family history of recurrent and/or severe infections		tions	0	0	0		
						Fam	ily history of neu	tropenia			0	0	0
PATIENT INFORMATION First name MI Last name						CLINICIAN INFORMATION Organization name							
Date of birth (MM/DD/YYYY) Biological se							Phone Fax						
Ancestry	O Hispanic O Nat	African Americ ive American	can O	White/Caucasian Ashkena acific Islander French Canad		ish	Address State/Prov		ZIP/Postal code	Co	Cit	у	
			ss (report access after clinician releases)				Primary clinical co	ntact name (if different from o	ordering pro	ovider)	NPI	
Address City			City		Primary clinical contact email address (for report access)								
State/Prov ZIP/Postal code Country					Ordering provider (select one ordering provider by marking the checkbox before the name)								
Kit type:	to this patient (optiona Buccal swab kit Address above	Saliva kit		ng this completed form to Invita	ie	_	Name O		NPI		Email a	address (t	or report access)
	SPEC	IMEN II	NFOF	RMATION									
Specimen type: Blood (3-mL purple EDTA) -OR- Buccal Swabs (OCD-100, 2 devices) -OR- Saliva (Oragene™) -OR- DNA source:					_	0							
We are un	able to accept blood/buc	cal/saliva fron	n patien		collecti	ion	0						
	en collection date (M					511	Additional clinical or laboratory contacts (optional, to share access to order online) Share this order with the primary clinical contact's default clinical team, manage at invitae.com						
Special o	ipecial cases: History of/current hematologic malignancy in patient					=	Name Email address (for repor						
INV	ITAE PARTNER	CODE	PAT	ГН			Name			Email ad	dress (f	or repor	t access)





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 Diagnosed condition Age at diagnosis Relative's relationship to this patient Diagnosed condition Or paternal	Age at diagnosis									
PERSONAL HISTORY										
Is this patient affected or symptomatic?†										
OPTIONAL - REQUESTED VARIANTS FOR THIS PATIENT'S REPORT, IF KNOWN										
To have the presence or absence of specific variants commented on in this patient's report, provide the details below. For gene-specific family follow-up see Note under Test Selection.										
Was the proband (patient with variant) tested at Invitae? Yes, Invitae Order ID: RQ# O No: Attach copy of lab results (required)										
Variant(s) (e.g. GENE c.2200A>T (p.Thr734Ser) NM_00012345) If left blank, all variants identified in the proband will be commented on. This patient's relationship to proband: ORANGE OF Child Self Other:										
TEST SELECTION – Select test(s) from either option 1 or 2 below:										
	. PATH4WARD PROGRAM									
Test code Test name # of genes Gene list										
Invitae Invitae Invitae Invitae Invitae Invitae Invitae Invitae Invitae Indoorn Invitae Indoorn Invitae Indoorn Invitae Invi	SLNK, ARD14, 3D, CD3E, CGTR, CHD7, S, CYCS, I, DNAH5, I, EIFAK3, NCI, FANCL, GINSTI, H1, IFNAR1, 3R, ILZRA, JAK3, KAT6A, C8A, LYN, N, MTHED1, FKB2, NFKBIA, VALB2, Z2, POLR3A, S1C, RAG1, RNASEHZB, RNASEHZB, RRHSSEHZB, SBF2, A3, SLC35C1, S4, SRP72, Z, TERC, FAIP3, RAF3IP2, WDR1, WIPF1,									
2. GENE-SPECIFIC FAMILY FOLLOW-UP TESTING For relatives of a program patient ('proband') who received a Pathogenic/Likely Pathogenic result or approved VUS. Family follow-up testing for This patient's relationship to proband: Gene(s) to be tested in this patient:										
Proband's Invitae Order ID: RQ# Parent Sibling Grandchild Other:	Concess to be tested in this patient.									
NOTE: The presence or absence of all variants identified in the proband will be reported for this patient unless a limited selection is specified in the Requested Variants section above.										

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 patient/family member authorized to make decisions for 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). The medical professional will retain evidence that the patient consented to genetic testing. 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 deidentified (also referred to as pseudonymized) patient data may be used and shared with third parties in connection with the Program, for research and commercial purposes. For orders originating outside the United States, the Patient has been informed that their personal information and specimen will be transferred to and processed in the United States. The medical professional warrants that (i) he/she will not seek reimbursement for this no-charge test from any third party, including but not limited to government healthcare programs; (ii) participation in the Program will not influence his/her medical decisions; (iii) he/she is not obligated to purchase or prescribe any product or service offered by a sponsor of the Program; (iv) he/she is not obligated to participate in or to encourage patients to participate in any clinical trial or other research program conducted by a sponsor; and (v) he/she will participate in the Program in accordance with applicable laws. The medical professional consents to the sharing of organization and clinician contact information with third parties, including commercial organizations, who may contact the medical professional directly in connection with the Program. A list of third party partners will be provided upon request. I attest that I am authorized under applicable law to order this test.

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