

Instructions: The accurate interpretation and reporting of genetic results is contingent upon the reason for referral, clinical information, ethnic background, and family history. To help provide the best possible service, supply the information requested below and **send paperwork with the specimen, or return by fax to Mayo Clinic Laboratories, Attn: Personalized Genomics Laboratory Genetic Counselors at 507-284-1759. Phone: 507-266-5700 / International clients: +1-507-266-5700 or email mcglobal@mayo.edu**

Patient Information

Patient Name <i>(Last, First, Middle)</i>	Birth Date <i>(mm-dd-yyyy)</i>	Sex <input type="checkbox"/> Male <input type="checkbox"/> Female
Referring Provider Name <i>(Last, First)</i>	Phone	Fax*
Other Contact Name <i>(Last, First)</i>	Phone	Fax*

*Fax number given must be from a fax machine that complies with applicable HIPAA regulations.

Reason for Testing

- Diagnosis Newborn Screening Follow-up Carrier Testing Family History

Note: Genetic testing should always be initiated on an affected family member first, when available, in order to be most informative for at-risk relatives.

Indications Check all that apply.

<p>Autoinflammatory</p> <ul style="list-style-type: none"> <input type="checkbox"/> Periodic fever <input type="checkbox"/> Familial Mediterranean fever (FMF) <input type="checkbox"/> Hyper IgD syndrome <input type="checkbox"/> Cryopyrin-associated periodic syndromes (CAPS) <input type="checkbox"/> Blau syndrome <input type="checkbox"/> PAPA syndrome <input type="checkbox"/> PFAPA syndrome <input type="checkbox"/> TRAPS (TNF-receptor-associated periodic syndromes) <input type="checkbox"/> PLAID/APLAID <input type="checkbox"/> Amylopectinosis and autoinflammation <input type="checkbox"/> Majeed syndrome; CRMO <input type="checkbox"/> Other inflammasome-related disorders <input type="checkbox"/> Other autoinflammatory conditions, specify: _____ <p>B-Cell Deficiency; Agammaglobulinemia</p> <ul style="list-style-type: none"> <input type="checkbox"/> Recurrent sinopulmonary infections <input type="checkbox"/> Hypogammaglobulinemia <input type="checkbox"/> Lymphoproliferation <input type="checkbox"/> Increased IgM (Hyper IgM) <input type="checkbox"/> Class-switch recombination defects <p>Complement aHUS/TMA</p> <ul style="list-style-type: none"> <input type="checkbox"/> Atypical hemolytic uremic syndrome (aHUS) <input type="checkbox"/> Thrombotic microangiopathy (TMA) <input type="checkbox"/> Thrombotic thrombocytopenic purpura (TTP) 	<p>Inflammatory Bowel Disease/Enteropathy/Hepatic PID</p> <ul style="list-style-type: none"> <input type="checkbox"/> Chronic IBD-like disorder and CID <input type="checkbox"/> Ulcerative colitis <input type="checkbox"/> Crohn disease <input type="checkbox"/> Enteropathy, hypogammaglobulinemia, autoinflammation, and autoimmunity <input type="checkbox"/> IBD, lymphadenopathy <input type="checkbox"/> Veno-occlusive disease (in context of PID; VODI) <input type="checkbox"/> NRH (nodular regenerative hyperplasia) <p>Phagocytic PID/Chronic Granulomatous Disease</p> <ul style="list-style-type: none"> <input type="checkbox"/> Recurrent pneumonia, soft-tissue granulomas, recurrent abscesses, specific microbial infections; specify: _____ <input type="checkbox"/> Palmoplantar keratoderma with periodontitis (Papillon-Lefvre) <input type="checkbox"/> Delayed umbilical cord separation +/- omphalitis <input type="checkbox"/> Leukocytosis <input type="checkbox"/> Absence of pus (leukocyte adhesion deficiencies) <input type="checkbox"/> Bleeding diathesis <input type="checkbox"/> Comel-Netherton syndrome <input type="checkbox"/> Favism (hemolysis, neonatal hyperbilirubinemia) <input type="checkbox"/> Pulmonary alveolar proteinosis <input type="checkbox"/> Other neutrophil-associated phenotypes <input type="checkbox"/> Bombay blood group <input type="checkbox"/> Gingivitis <input type="checkbox"/> Periodontitis 	<p>Severe Combined Immunodeficiency</p> <ul style="list-style-type: none"> <input type="checkbox"/> Severe combined immunodeficiency (SCID) <input type="checkbox"/> Combined immunodeficiency (CID) <input type="checkbox"/> T-cell lymphopenia/deficiency <input type="checkbox"/> (T-, B-, NK-) SCID (ADA-SCID; Reticular dysgenesis) <input type="checkbox"/> (T-, B-, NK+) SCID (VDJ recombination defects; CID) <input type="checkbox"/> (T-, B+, NK-) SCID (X-linked SCID; JAK3 SCID) <input type="checkbox"/> (T-, B+, NK+) SCID (T-cell SCID) <input type="checkbox"/> Severe, recurrent EBV infections/ENB lymphoproliferative disease <input type="checkbox"/> CD4+ or CD8+ T-cell deficiency or absence of MHC class I or class II molecules (Bare lymphocyte syndrome, type I or II) <p>Telomere Defects</p> <ul style="list-style-type: none"> <input type="checkbox"/> Idiopathic pulmonary fibrosis <input type="checkbox"/> Dyskeratosis congenita <input type="checkbox"/> Bone marrow failure syndrome <input type="checkbox"/> Telomeropathies <p>Congenital Neutropenia/Neutrophil PID</p> <ul style="list-style-type: none"> <input type="checkbox"/> Congenital neutropenia (Kostmann syndrome) <input type="checkbox"/> Cyclic neutropenia <input type="checkbox"/> Shwachman-Diamond syndrome <input type="checkbox"/> Wiskott-Aldrich syndrome <input type="checkbox"/> Cohen syndrome <input type="checkbox"/> Barth syndrome <input type="checkbox"/> G6PD deficiency <input type="checkbox"/> WHIM syndrome <input type="checkbox"/> Other neutropenia, specify: _____
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Primary Immunodeficiencies Patient Information (continued)

Patient Name (Last, First, Middle) _____	Birth Date (mm-dd-yyyy) _____
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Family History

Attach Pedigree if available.

Are there any affected relatives?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, relationship: _____
Is there any consanguinity in the family?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Have relatives had molecular genetic testing?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If yes, specify: _____			

Ethnicity

European Caucasian African American Hispanic Asian Other: _____

Clinical History

Check all that apply.

Age of onset of symptoms: _____ Durations of symptoms: _____

Has the patient received a hematopoietic cell transplant? Yes No If yes, transplant date (mm-dd-yyyy): _____

Transplant type: allogeneic (MRD, MURD, haplo, cord, BM): _____

Donor chimerism: % T: _____ % B: _____ % NK: _____ % myeloid: _____

Has the patient received a solid organ transplant? Yes No

If yes, Heart Lung Liver Kidney Vascularized Composite allograft

Other, specify: _____

First transplant or multiple: _____

Post-transplant immunosuppression

Graft versus host disease? Yes: Acute Chronic No

<p>Laboratory Findings</p> <p><input type="checkbox"/> Abnormal lymphocyte (T-, B-, and NK-cell) subset quantitation: _____</p> <p>Humoral Markers</p> <p><input type="checkbox"/> Abnormal B-cell function (vaccine antibody responses): _____</p> <p><input type="checkbox"/> Autoantibodies present, specify: _____</p> <p><input type="checkbox"/> Hypogammaglobulinemia:</p> <p style="margin-left: 20px;"><input type="checkbox"/> IgG <input type="checkbox"/> IgA <input type="checkbox"/> IgM</p> <p style="margin-left: 20px;"><input type="checkbox"/> IgD <input type="checkbox"/> IgE</p> <p><input type="checkbox"/> Hypergammaglobulinemia:</p> <p style="margin-left: 20px;"><input type="checkbox"/> IgG <input type="checkbox"/> IgA <input type="checkbox"/> IgM</p> <p style="margin-left: 20px;"><input type="checkbox"/> IgD <input type="checkbox"/> IgE</p> <p>Cellular Markers</p> <p><input type="checkbox"/> Abnormal TREC assay (NBS and/or other): _____</p> <p><input type="checkbox"/> Abnormal T-cell function (specify mitogens/antigens/anti-CD3/cytokine production);</p> <p><input type="checkbox"/> T-cell markers:</p> <p style="margin-left: 20px;">Naive: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p style="margin-left: 20px;">Memory: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p style="margin-left: 20px;">Activated: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p><input type="checkbox"/> B-cell markers:</p> <p style="margin-left: 20px;">Switched memory: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p style="margin-left: 20px;">Marginal zone B-cells: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p style="margin-left: 20px;">Transitional B-cells: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p style="margin-left: 20px;">Plasmablasts: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p>	<p>Cytokines</p> <p>IL-1b: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p>IL-6: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p>IL-18: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p>TNF alpha: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p>Interferon-gamma: <input type="checkbox"/> Increased <input type="checkbox"/> Decreased</p> <p>Chromosomal Studies</p> <p><input type="checkbox"/> 22q deletion FISH</p> <p><input type="checkbox"/> Chromosomal array</p> <p><input type="checkbox"/> Other chromosomal abnormality _____</p> <p>Protein Loss Markers</p> <p><input type="checkbox"/> Calprotectin</p> <p><input type="checkbox"/> 24-hour stool alpha-1 antitrypsin clearance assay</p> <p><input type="checkbox"/> Serum albumin</p> <p><input type="checkbox"/> Proteinuria: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Soluble Biomarkers</p> <p><input type="checkbox"/> ADAMTS13</p> <p style="margin-left: 20px;">Activity: _____ Level: _____</p> <p><input type="checkbox"/> Shiga toxin: <input type="checkbox"/> Positive <input type="checkbox"/> Negative</p> <p><input type="checkbox"/> Vitamin B12: _____</p> <p><input type="checkbox"/> Folate: _____</p> <p><input type="checkbox"/> Ferritin: _____</p> <p><input type="checkbox"/> Soluble IL2R-alpha (sCD25): _____</p> <p><input type="checkbox"/> CRP: _____</p> <p><input type="checkbox"/> ESR: _____</p> <p><input type="checkbox"/> Triglycerides: _____</p> <p><input type="checkbox"/> Fibrinogen: _____</p> <p><input type="checkbox"/> AFP level (age when tested): _____</p> <p><input type="checkbox"/> ALPS screening panel:</p> <p style="margin-left: 20px;">DNT-cell % as % CD3+ : _____</p> <p style="margin-left: 20px;">sFASL: <input type="checkbox"/> Increased <input type="checkbox"/> Abnormal</p>	<p>Complement Serology</p> <p><input type="checkbox"/> CH50: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> AH50: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> FH autoantibody: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> FH: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> FB: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> FI: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> FD: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> sMAC: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p><input type="checkbox"/> aHUS serology panel</p> <p>C2 level: _____</p> <p style="margin-left: 20px;">Function: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p>C3 level: _____</p> <p style="margin-left: 20px;">Function: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p>C4 level: _____</p> <p style="margin-left: 20px;">Function: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p>C5 level: _____</p> <p style="margin-left: 20px;">Function: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p>C6–C9 level: _____</p> <p style="margin-left: 20px;">Function: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p>C1q level: _____</p> <p style="margin-left: 20px;">Function: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p>C1q antibody: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>C3NeF: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Other: _____</p> <p>Other Markers</p> <p><input type="checkbox"/> Abnormal radiosensitivity: <input type="checkbox"/> Yes <input type="checkbox"/> No (blood, MB, or fibroblasts)</p> <p><input type="checkbox"/> Specific protein assay by flow cytometry:</p> <p style="margin-left: 20px;">BTK: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p style="margin-left: 20px;">LRBA: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p style="margin-left: 20px;">DOCK8: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p style="margin-left: 20px;">WAS: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p style="margin-left: 20px;">XIAP: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p> <p style="margin-left: 20px;">SAP: <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal</p>
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