

PATIENT INFORMATION

First name		MI	Last name	
Date of birth (MM/DD/YYYY)	Sex <input type="radio"/> M <input type="radio"/> F	MRN (medical record number)		
Ancestry <input type="radio"/> Asian <input type="radio"/> Black/African American <input type="radio"/> White/Caucasian <input type="radio"/> Ashkenazi Jewish <input type="radio"/> Hispanic <input type="radio"/> Native American <input type="radio"/> Pacific Islander <input type="radio"/> Other:				
▶ Email address (for report access after release by medical professional)				
Phone		Is this patient deceased? <input type="radio"/> Yes <input type="radio"/> No Deceased date:		
Address			City	
State	ZIP code	Country		

SPECIMEN INFORMATION

Label each tube with the patient's full name, date of birth, and specimen collection date. A requisition form MUST accompany each specimen. www.invitae.com/specimen-requirements

Specimen type: Blood Saliva Assisted saliva DNA - source:
DNA must be extracted in a CLIA or other suitably certified laboratory
We are unable to accept blood/saliva from patients with:

- Allogeneic bone marrow transplants
- Blood transfusion <2 weeks prior to specimen collection

▶ Collection date (MM/DD/YYYY)	Special cases <input type="radio"/> History of/current hematologic malignancy <input type="radio"/> Resubmission
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REASON FOR TESTING

Primary indication:

ICD-10 codes	Previous results
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Testing for a personal history of disease? Yes No If yes, describe below.
Age at diagnosis: _____

ORGANIZATION INFORMATION

Organization name and address

Organization name

Phone	Fax	
Address		City
State	ZIP code	Country

Primary clinical contact

Name	Role/title
Phone	NPI
Email address (for report access)	

Ordering physician

Same as primary clinical contact

Name	NPI
Email address (for report access)	

Additional clinical or laboratory contact (optional)

Name	Email address (for report access)
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Letter of Medical Necessity (LMN)

- I have attached an LMN and/or other documentation for insurance billing purposes.
 I agree to allow Invitae to transfer the information from this requisition to an LMN and/or other documentation using the ordering physician's name as the signature for insurance billing.

Family history? Yes No If yes, describe in detail below or attach pedigree. If there is a known familial variant, indicate here.

INSURANCE BILLING (U.S. ONLY)

I have attached a copy of the patient's card

Insurance company name	Member ID#
Patient relation to policy holder: <input type="radio"/> Self <input type="radio"/> Child <input type="radio"/> Spouse <input type="radio"/> Other	
Policy holder name	Prior-authorization #

PATIENT PAY BILLING

Invitae will send an electronic invoice to the patient email listed above

INSTITUTIONAL BILLING

Send invoice to organization address above

Billing contact name	Phone	Fax
Billing email address		
Billing address		City
State	ZIP code	Country

OTHER BILLING Invitae partner code:

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 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). The Patient has further been informed and hereby authorizes Invitae Corporation ("Invitae") and its designees to release information concerning testing to their insurer in order to process and/or appeal claims on behalf of the Patient. For amounts received directly, the Patient agrees to remit payment to Invitae for testing services rendered. I acknowledge that I offered pre-test Genetic Counseling to the Patient, if required by their insurer. In addition to the above, I attest that I am the ordering physician, or I am authorized by the ordering physician to order this test, or I am authorized under applicable state law to order this test.

▶ Medical professional signature	Date
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ORDER INSTRUCTIONS

Select a pre-curated test, combine multiple tests, or customize your own test for each patient. Invitae's pricing is per clinical area for initial order and re-requisition. All tests on this form are organized by clinical area. If your order contains tests from multiple clinical areas, you will need to send in two sample tubes and your order will represent two billable events. Your test results will be delivered as two reports. Please contact Client Services with any questions. For Invitae's full test menu, please visit www.invitae.com.

RE-REQUISITION

Invitae offers one re-requisition at no additional charge within 90 days for genes within the original clinical area. For more information and to request online, please visit www.invitae.com/re-requisition.

FAMILY VARIANT TESTING

Invitae offers Family Variant Testing at no additional charge within 90 days for the genes in which the original family member's variant was identified. In such cases, please use the Family Variant Testing/VUS Resolution requisition form (TRF920), available at www.invitae.com/forms.

PRELIMINARY-EVIDENCE GENES

Invitae's primary panels contain genes for which there is definitive evidence that variants in these genes cause specific diseases. Preliminary-evidence genes are genes for which there is only early evidence of a relationship between variants in these genes and specific diseases. All preliminary-evidence genes are indicated as such on the requisition form below.

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.

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). To avoid confusion, please consider placing your order using our online test catalog.

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

SHIPPING INSTRUCTIONS

Please ship specimen overnight in insulated containers:

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

CLINICAL AREA: METABOLIC DISORDERS, NEWBORN SCREENING & IMMUNOLOGY

Test code	Test name	# gene(s)	Gene list
Primary Immunodeficiency			
<input type="radio"/> 08100	Invitae Primary Immunodeficiency Panel	207	ACD, ACP5, ACTB, ADA, ADA2, ADAM17, ADAR, AICDA, AIRE, AK2, AP3B1, ATM, B2M, BCL10, BLNK, BLOC1S6, BTK, CARD11, CARD14, CARD9, CASP10, CASP8, CD247, CD27, CD3D, CD3E, CD3G, CD40LG, CD79A, CD79B, CD8A, CEBPE, CHD7, CIITA, CLPB, COPA, CORO1A, CR2, CSF2RA, CSF3R, CTC1, CTLA4, CTPS1, CTSC, CXCR4, CYBA, CYBB, DCLRE1B, DCLRE1C, DKC1, DNMT3B, DOCK2, DOCK8, ELANE, EPG5, FADD, FAS, FASLG, FERMT3, FOXP1, FOXP3, FPR1, G6PC3, GATA2, GF11, HAX1, ICOS, IFIH1, IFNGR1, IFNGR2, IGLL1, IKBKB, IL10, IL10RA, IL10RB, IL12B, IL12RB1, IL17F, IL17RA, IL17RC, IL1RN, IL21, IL21R, IL2RA, IL2RG, IL36RN, IL7R, IRAK4, IRF7, IRF8, ISG15, ITCH, ITGB2, ITK, JAGN1, JAK3, LAMTOR2, LCK, LIG4, LPIN2, LRBA, LYST, MAGT1, MALT1, MAP3K14, MEV, MOGS, MVK, MYD88, NBN, NCF2, NCF4, NFAT5, NFKB2, NFKBIA, NHEJ1, NHP2, NLRC4, NLRP12, NLRP3, NOD2, NOP10, ORAI1, PARN, PGM3, PIK3CD, PIK3R1, PLCG2, PMS2, PNP, POLE, PRF1, PRKCD, PRKDC, PSMB8, PSTPIP1, PTPRC, RAB27A, RAC2, RAG1, RAG2, RBCK1, RFX5, RFXANK, RFXAP, RHOH, RMRP, RNASEH2A, RNASEH2B, RNASEH2C, RORC, RTEL1, SAMHD1, SEMA3E, SH2D1A, SH3BP2, SLC29A3, SLC35C1, SLC37A4, SLC7A7, SMARCAL1, SP110, SPINK5, STAT1, STAT2, STAT3, STAT5B, STIM1, STK4, STX11, STXBP2, TAP1, TAP2, TAPBP, TAZ, TBK1, TCN2, TERC, TERT, TFNSF12, TICAM1, TINF2, TLR3, TMC6, TMC8, TMEM173, TNFRSF13B, TNFRSF13C, TNFRSF1A, TNFRSF4, TPP2, TRAF3, TRAF3IP2, TREX1, TRNT1, TTC7A, TYK2, UNC13D, UNC93B1, UNG, VPS13B, VPS45, WAS, WIPF1, XIAP, ZAP70, ZBTB24
Antibody Deficiencies			
<input type="radio"/> 08111	Invitae Agammaglobulinemia Panel	6	BLNK, BTK, CD79A, CD79B, IGLL1, PIK3R1
<input type="radio"/> 08111.1	Add-on hypogammaglobulinemia genes	5	GATA2, MOGS, SH2D1A, TRNT1, XIAP
<input type="radio"/> 08111.2	Add-on common variable immunodeficiency genes	20	CD27, CR2, CTLA4, DCLRE1C, ICOS, IL21, IL21R, JAK3, LRBA, NFKB2, PIK3CD, PLCG2, PRKCD, RAC2, RAG1, STAT3, STXBP2, TNFRSF13B, TNFRSF13C, TNFSF12
<input type="radio"/> 08112	Invitae Common Variable Immunodeficiency Panel	17	CD27, CR2, CTLA4, ICOS, IL21, IL21R, LRBA, NFKB2, PIK3CD, PIK3R1, PLCG2, PRKCD, RAC2, STAT3, TNFRSF13B, TNFRSF13C, TNFSF12
<input type="radio"/> 08112.1	Add-on primary immunodeficiencies that can mimic common variable immunodeficiency	5	DCLRE1C, GATA2, JAK3, RAG1, STXBP2
<input type="radio"/> 08112.2	Add-on agammaglobulinemia/hypogammaglobulinemia genes	10	BLNK, BTK, CD79A, CD79B, GATA2, IGLL1, MOGS, SH2D1A, TRNT1, XIAP

CLINICAL AREA: METABOLIC DISORDERS, NEWBORN SCREENING & IMMUNOLOGY

Test code	Test name	# gene(s)	Gene list
Antibody Deficiencies (continued)			
○ 08113	Invitae Hyper IgE Syndrome Panel	4	DOCK8, PGM3, SPINK5, STAT3
○ 08114	Invitae Hyper IgM Syndrome Panel	3	AICDA, CD40LG, UNG
	○ 08114.1 Add-on clinically overlapping genes	3	BTK, IL2RG, SH2D1A
Autoinflammatory Syndromes			
○ 08120	Invitae Autoinflammatory Syndromes Panel	26	ADA2, ADAM17, CARD14, COPA, ELANE, IL10, IL10RA, IL10RB, IL1RN, IL36RN, LPIN2, MEFV, MVK, NFAT5, NLRC4, NLRP12, NLRP3, NOD2, PLCG2, PSMB8, PSTPIP1, RBCK1, SH3BP2, SLC29A3, TNFRSF1A, TRNT1
○ 08121	Invitae Familial Cold Autoinflammatory Syndrome Panel	4	NLRC4, NLRP12, NLRP3, PLCG2
○ 04313	Invitae Familial Mediterranean Fever Test	1	MEFV
	○ 04313.1 Add-on additional periodic fever syndromes genes	11	ADA2, ELANE, LPIN2, MVK, NLRC4, NLRP12, NLRP3, PSMB8, PSTPIP1, TNFRSF1A, TRNT1
○ 08122	Invitae Monogenic Inflammatory Bowel Disease Panel	46	ADA, ADAM17, AICDA, BTK, CD3G, CD40LG, CTLA4, CYBA, CYBB, DCLRE1C, DKC1, DOCK8, FOXP3, G6PC3, ICOS, IL10, IL10RA, IL10RB, IL21, IL2RA, IL2RG, ITGB2, LIG4, LRBA, MEFV, MVK, NCF2, NCF4, NFAT5, NLRC4, PIK3CD, PIK3R1, PLCG2, RAG1, RAG2, RTEL1, SH2D1A, SLC37A4, STAT1, STAT3, STIM1, STXBP2, TTC7A, WAS, XIAP, ZAP70
○ 04312	Invitae Periodic Fever Syndromes Panel	12	ADA2, ELANE, LPIN2, MEFV, MVK, NLRC4, NLRP12, NLRP3, PSMB8, PSTPIP1, TNFRSF1A, TRNT1
Combined T/B Cell Deficiencies			
○ 08130	Invitae Comprehensive Severe Combined Immunodeficiency (SCID) and Combined Immunodeficiency (CID) Panel	49	ADA, AK2, B2M, BCL10, CARD11, CD247, CD27, CD3D, CD3E, CD3G, CD40LG, CD8A, CIITA, CORO1A, CTPS1, DCLRE1C, DOCK2, DOCK8, ICOS, IKBKB, IL21, IL21R, IL2RG, IL7R, ITK, JAK3, LCK, LIG4, LRBA, MAGT1, MALT1, MAP3K14, NHEJ1, PNP, PRKDC, PTPRC, RAC2, RAG1, RAG2, RFX5, RFXANK, RFXAP, RHOH, STK4, TAP1, TAP2, TAPBP, TNFRSF4, ZAP70
	○ 08130.1 Add-on combined immunodeficiency (CID) with syndromic features genes	36	ACD, ATM, CHD7, CTC1, DCLRE1B, DKC1, DNMT3B, EPG5, FOXN1, NBN, NFKBIA, NHP2, NOP10, ORAI1, PARN, PGM3, PMS2, POLE, RMRP, RTEL1, SEMA3E, SMARCAL1, SP110, SPINK5, STAT3, STAT5B, STIM1, TBX1, TCN2, TERC, TERT, TINF2, TTC7A, WAS, WIPF1, ZBTB24
○ 04311	Invitae Comprehensive Severe Combined Immunodeficiency (SCID) Panel	18	ADA, AK2, CD247, CD3D, CD3E, CORO1A, DCLRE1C, IL2RG, IL7R, JAK3, LIG4, NHEJ1, PNP, PRKDC, PTPRC, RAG1, RAG2, ZAP70
	○ 04311.1 Add-on combined immunodeficiency (CID) genes	32	B2M, BCL10, CARD11, CD27, CD3G, CD40LG, CD8A, CIITA, CTPS1, DOCK2, DOCK8, ICOS, IKBKB, IL21, IL21R, ITK, LCK, LRBA, MAGT1, MALT1, MAP3K14, RAC2, RFX5, RFXANK, RFXAP, RHOH, STK4, TAP1, TAP2, TAPBP, TNFRSF4, ZAP70
	○ 04311.2 Add-on combined immunodeficiency (CID) with syndromic features genes	36	ACD, ATM, CHD7, CTC1, DCLRE1B, DKC1, DNMT3B, EPG5, FOXN1, NBN, NFKBIA, NHP2, NOP10, ORAI1, PARN, PGM3, PMS2, POLE, RMRP, RTEL1, SEMA3E, SMARCAL1, SP110, SPINK5, STAT3, STAT5B, STIM1, TBX1, TCN2, TERC, TERT, TINF2, TTC7A, WAS, WIPF1, ZBTB24
○ 08131	Invitae T-B-NK- Severe Combined Immunodeficiency (SCID) Panel	2	ADA, AK2
○ 08132	Invitae T-B-NK+ Severe Combined Immunodeficiency (SCID) Panel	6	DCLRE1C, LIG4, NHEJ1, PRKDC, RAG1, RAG2
○ 08133	Invitae T-B+NK- Severe Combined Immunodeficiency (SCID) Panel	2	IL2RG, JAK3
○ 08134	Invitae T-B+NK+ Severe Combined Immunodeficiency (SCID) Panel	6	CD247, CD3D, CD3E, CORO1A, IL7R, PTPRC
○ 08135	Invitae X-Linked Severe Combined Immunodeficiency (SCID) Test	1	IL2RG
○ 08136	Invitae Radiation-Sensitive Severe Combined Immunodeficiency (SCID) Panel	4	DCLRE1C, LIG4, NHEJ1, PRKDC

CLINICAL AREA: METABOLIC DISORDERS, NEWBORN SCREENING & IMMUNOLOGY

Test code	Test name	# gene(s)	Gene list
Combined T/B Cell Deficiencies (continued)			
<input type="radio"/> 08137	Invitae Combined Immunodeficiency (CID) Panel	32	B2M, BCL10, CARD11, CD27, CD3G, CD40LG, CD8A, CIITA, CTPS1, DOCK2, DOCK8, ICOS, IKBKB, IL21, IL21R, ITK, LCK, LRBA, MAGT1, MALT1, MAP3K14, RAC2, RFX5, RFXANK, RFXAP, RHOH, STK4, TAP1, TAP2, TAPBP, TNFRSF4, ZAP70
<input type="radio"/> 08137.1	Add-on combined immunodeficiencies (CID) with syndromic features	36	ACD, ATM, CHD7, CTC1, DCLRE1B, DKC1, DNMT3B, EPG5, FOXN1, NBN, NFKBIA, NHP2, NOP10, ORAI1, PARN, PGM3, PMS2, POLE, RMRP, RTEL1, SEMA3E, SMARCAL1, SP110, SPINK5, STAT3, STAT5B, STIM1, TBX1, TCN2, TERC, TERT, TINF2, TTC7A, WAS, WIPF1, ZBTB24
<input type="radio"/> 08138	Invitae Syndromic Combined Immunodeficiency (CID) Panel	37	ACD, ATM, CHD7, CTC1, DCLRE1B, DKC1, DNMT3B, EPG5, FOXN1, NBN, NFKBIA, NHP2, NOP10, ORAI1, PARN, PGM3, PMS2, PNP, POLE, RMRP, RTEL1, SEMA3E, SMARCAL1, SP110, SPINK5, STAT3, STAT5B, STIM1, TBX1, TCN2, TERC, TERT, TINF2, TTC7A, WAS, WIPF1, ZBTB24
Disorders of Intrinsic and Innate Immunity			
<input type="radio"/> 08140	Invitae Chronic Mucocutaneous Candidiasis Panel	4	IL17F, IL17RA, IL17RC, TRAF3IP2
<input type="radio"/> 08140.1	Add-on syndromic chronic mucocutaneous candidiasis genes	7	AIRE, CARD9, IL12B, IL12RB1, RORC, STAT1, STAT3
<input type="radio"/> 08141	Invitae Epidermolytic Verruformis Panel	4	CXCR4, RHOH, TMC6, TMC8
<input type="radio"/> 08142	Invitae Herpes Simplex Encephalitis Panel	5	TBK1, TICAM1, TLR3, TRAF3, UNC93B1
<input type="radio"/> 08142.1	Add-on predisposition to multiple viral infections genes	2	STAT1, TYK2
<input type="radio"/> 08143	Invitae Mendelian Susceptibility to Mycobacterial Disease Panel	16	ACPS, ADAR, CYBB, GATA2, IFNGR1, IFNGR2, IL12B, IL12RB1, IRAK4, IRF8, ISG15, MYD88, SAMHD1, STAT1, STAT2, TYK2
Immune Dysregulation			
<input type="radio"/> 08150	Invitae Monogenic Autoimmunity Panel	73	ACPS, ADA2, ADAR, AICDA, AIRE, AP3B1, BLOC1S6, BTK, CASP10, CASP8, CD27, CD40LG, CR2, CTLA4, CYBA, CYBB, DOCK8, FADD, FAS, FASLG, FOXP3, ICOS, IFIH1, IL10, IL10RA, IL10RB, IL2RA, IL21, IL21R, ITCH, LRBA, LYST, NCF2, NCF4, NFAT5, NFKB2, NFKBIA, ORAI1, PIK3CD, PIK3R1, PLCG2, PNP, PRF1, PRKCD, RAB27A, RAC2, RFX5, RFXANK, RFXAP, RNASEH2A, RNASEH2B, RNASEH2C, RMRP, SAMHD1, SH2D1A, SLC7A7, STAT1, STAT3, STAT5B, STIM1, STX11, STXBP2, TBX1, TMEM173, TNFRSF13B, TNFRSF13C, TNFSF12, TPP2, TREX1, UNC13D, UNG, WAS, XIAP
<input type="radio"/> 08151	Invitae Autoimmune Lymphoproliferative Disorders (ALPS) Panel	8	CASP8, CTLA4, FAS, FASLG, ITK, MAGT1, PIK3CD, PRKCD
<input type="radio"/> 08151.1	Add-on preliminary-evidence genes	2	CASP10, FADD
<input type="radio"/> 08152	Invitae Hereditary Hemophagocytic Lymphohistiocytosis (HLH) Disorders Panel	21	ADA, AP3B1, BLOC1S6, BTK, CD27, IL2RA, IL2RG, ITK, LYST, MAGT1, MVK, PNP, PRF1, RAB27A, SH2D1A, SLC7A7, STX11, STXBP2, UNC13D, WAS, XIAP
Phagocytic Defects			
<input type="radio"/> 08160	Invitae Phagocyte Defects Panel	27	CEBPE, CLPB, CSF2RA, CSF3R, CTSC, CYBA, CYBB, ELANE, FERMT3, FPR1, G6PC3, G6PD, GF11, HAX1, ITGB2, JAGN1, LAMTOR2, NCF2, NCF4, PMM2, SLC35C1, SLC37A4, SPINK5, TAZ, VPS13B, VPS45, WAS
Well-Defined Syndromes			
<input type="radio"/> 05314	Invitae Dyskeratosis Congenita Panel	7	CTC1, DKC1, NHP2, NOP10, TERC, TERT, TINF2
<input type="radio"/> 08170	Invitae Immunodeficiency, Centromeric Instability, Facial Anomalies Syndrome Panel	2	DNMT3B, ZBTB24

IMMUNOLOGY INDIVIDUAL GENES

<input type="radio"/> ACD	<input type="radio"/> CD79A	<input type="radio"/> FAS	<input type="radio"/> IL2RA	<input type="radio"/> NCF4	<input type="radio"/> RAB27A	<input type="radio"/> STAT3	<input type="radio"/> TRAF3IP2
<input type="radio"/> ACP5	<input type="radio"/> CD79B	<input type="radio"/> FASLG	<input type="radio"/> IL2RG	<input type="radio"/> NFAT5	<input type="radio"/> RAC2	<input type="radio"/> STAT5B	<input type="radio"/> TREX1
<input type="radio"/> ACTB	<input type="radio"/> CD8A	<input type="radio"/> FERMT3	<input type="radio"/> IL36RN	<input type="radio"/> NFKB2	<input type="radio"/> RAG1	<input type="radio"/> STIM1	<input type="radio"/> TRNT1
<input type="radio"/> ADA	<input type="radio"/> CEBPE	<input type="radio"/> FOXP1	<input type="radio"/> IL7R	<input type="radio"/> NFKBIA	<input type="radio"/> RAG2	<input type="radio"/> STK4	<input type="radio"/> TTC7A
<input type="radio"/> ADA2	<input type="radio"/> CHD7	<input type="radio"/> FOXP3	<input type="radio"/> IRAK4	<input type="radio"/> NHEJ1	<input type="radio"/> RBCK1	<input type="radio"/> STX11	<input type="radio"/> TYK2
<input type="radio"/> ADAM17	<input type="radio"/> CIITA	<input type="radio"/> FPR1	<input type="radio"/> IRF7	<input type="radio"/> NHP2	<input type="radio"/> RFX5	<input type="radio"/> STXBP2	<input type="radio"/> UNC13D
<input type="radio"/> ADAR	<input type="radio"/> CLPB	<input type="radio"/> G6PC3	<input type="radio"/> IRF8	<input type="radio"/> NLRC4	<input type="radio"/> RFXANK	<input type="radio"/> TAP1	<input type="radio"/> UNC93B1
<input type="radio"/> AICDA	<input type="radio"/> COPA	<input type="radio"/> G6PD	<input type="radio"/> ISG15	<input type="radio"/> NLRP12	<input type="radio"/> RFXAP	<input type="radio"/> TAP2	<input type="radio"/> UNG
<input type="radio"/> AIRE	<input type="radio"/> CORO1A	<input type="radio"/> GATA2	<input type="radio"/> ITCH	<input type="radio"/> NLRP3	<input type="radio"/> RHOH	<input type="radio"/> TAPBP	<input type="radio"/> VPS13B
<input type="radio"/> AK2	<input type="radio"/> CR2	<input type="radio"/> GF11	<input type="radio"/> ITGB2	<input type="radio"/> NOD2	<input type="radio"/> RMRP	<input type="radio"/> TAZ	<input type="radio"/> VPS45
<input type="radio"/> AP3B1	<input type="radio"/> CSF2RA	<input type="radio"/> HAX1	<input type="radio"/> ITK	<input type="radio"/> NOP10	<input type="radio"/> RNASEH2A	<input type="radio"/> TBK1	<input type="radio"/> WAS
<input type="radio"/> ATM	<input type="radio"/> CSF3R	<input type="radio"/> ICOS	<input type="radio"/> JAGN1	<input type="radio"/> ORAI1	<input type="radio"/> RNASEH2B	<input type="radio"/> TBX1	<input type="radio"/> WIPF1
<input type="radio"/> B2M	<input type="radio"/> CTC1	<input type="radio"/> IFIH1	<input type="radio"/> JAK3	<input type="radio"/> PARN	<input type="radio"/> RNASEH2C	<input type="radio"/> TCN2	<input type="radio"/> XIAP
<input type="radio"/> BCL10	<input type="radio"/> CTLA4	<input type="radio"/> IFNGR1	<input type="radio"/> LAMTOR2	<input type="radio"/> PGM3	<input type="radio"/> RORC	<input type="radio"/> TERC	<input type="radio"/> ZAP70
<input type="radio"/> BLNK	<input type="radio"/> CTPS1	<input type="radio"/> IFNGR2	<input type="radio"/> LCK	<input type="radio"/> PIK3CD	<input type="radio"/> RTEL1	<input type="radio"/> TERT	<input type="radio"/> ZBTB24
<input type="radio"/> BLOC1S6	<input type="radio"/> CTSC	<input type="radio"/> IGLL1	<input type="radio"/> LIG4	<input type="radio"/> PIK3R1	<input type="radio"/> SAMHD1	<input type="radio"/> TICAM1	
<input type="radio"/> BTK	<input type="radio"/> CXCR4	<input type="radio"/> IKBKB	<input type="radio"/> LPIN2	<input type="radio"/> PLCG2	<input type="radio"/> SEMA3E	<input type="radio"/> TNF2	
<input type="radio"/> CARD11	<input type="radio"/> CYBA	<input type="radio"/> IL10	<input type="radio"/> LRBA	<input type="radio"/> PMM2	<input type="radio"/> SH2D1A	<input type="radio"/> TLR3	
<input type="radio"/> CARD14	<input type="radio"/> CYBB	<input type="radio"/> IL10RA	<input type="radio"/> LYST	<input type="radio"/> PMS2	<input type="radio"/> SH3BP2	<input type="radio"/> TMC6	
<input type="radio"/> CARD9	<input type="radio"/> DCLRE1B	<input type="radio"/> IL10RB	<input type="radio"/> MAGT1	<input type="radio"/> PSMB8	<input type="radio"/> SLC29A3	<input type="radio"/> TMC8	
<input type="radio"/> CASP10	<input type="radio"/> DCLRE1C	<input type="radio"/> IL12B	<input type="radio"/> MALT1	<input type="radio"/> PNP	<input type="radio"/> SLC35C1	<input type="radio"/> TMEM173	
<input type="radio"/> CASP8	<input type="radio"/> DKC1	<input type="radio"/> IL12RB1	<input type="radio"/> MAP3K14	<input type="radio"/> POLE	<input type="radio"/> SLC37A4	<input type="radio"/> TNFRSF13B	
<input type="radio"/> CD247	<input type="radio"/> DNMT3B	<input type="radio"/> IL17F	<input type="radio"/> MEFV	<input type="radio"/> PRF1	<input type="radio"/> SLC7A7	<input type="radio"/> TNFRSF13C	
<input type="radio"/> CD27	<input type="radio"/> DOCK2	<input type="radio"/> IL17RA	<input type="radio"/> MOGS	<input type="radio"/> PRKCD	<input type="radio"/> SMARCAL1	<input type="radio"/> TNFRSF1A	
<input type="radio"/> CD3D	<input type="radio"/> DOCK8	<input type="radio"/> IL17RC	<input type="radio"/> MVK	<input type="radio"/> PRKDC	<input type="radio"/> SP110	<input type="radio"/> TNFRSF4	
<input type="radio"/> CD3E	<input type="radio"/> ELANE	<input type="radio"/> IL1RN	<input type="radio"/> MYD88	<input type="radio"/> PSMB8	<input type="radio"/> SPINK5	<input type="radio"/> TNFSF12	
<input type="radio"/> CD3G	<input type="radio"/> EPG5	<input type="radio"/> IL21	<input type="radio"/> NBN	<input type="radio"/> PSTPIP1	<input type="radio"/> STAT1	<input type="radio"/> TPP2	
<input type="radio"/> CD40LG	<input type="radio"/> FADD	<input type="radio"/> IL21R	<input type="radio"/> NCF2	<input type="radio"/> PTPRC	<input type="radio"/> STAT2	<input type="radio"/> TRAF3	