



Comparison of U.S. Genetic Testing Panel Options for Autoinflammatory Diseases

Panel Gene Comparison

LABORATORY / PANEL	# GENES TESTED	# SAID GENES INCLUDED	# SAID GENES MISSING	% SAID GENES INCLUDED	MISSING SAID GENES	INCLUDED SAID GENES
Seattle Children's Molecular Genetics Laboratory ImmuneSeq Inborn Errors of Immunity Panel (LAB3797)	752	87	23	79%	ALPK1, AP1M2, ARF1, DDX38, DPP9, DYSF, HMGC51, IL1R1, IL33, IRAK2, LACC1, NCKAP1, PLCG1, PLD4, PMVK, PSMA5, PSMA6, PSMD12, PTPN1, REXO2, RNU7-1, SHARPIN, TRAP1	ACP5, ADA2, ADAM17, ADAR, AP1S3, ARPC1B, ATAD3A, C2ORF69, CARD14, CDC42, CEBPE, COPA, DNASE1L3, DNASE2, ELF4, F12, HCK, IFIH1, IKBKG, IL10, IL10RA, IL10RB, IL18BP, IL1RN, IL36RN, IRAK4, ISG15, JAK1, LPIN2, LSM11, LYN, MEFV, MRTFA, MVK, NLRC4, NLRP1, NLRP12, NLRP3, NOD2, OAS1, OTULIN, PLCG2, POLA1, POMP, PRF1, PSMA3, PSMB10, PSMB4, PSMB8, PSMB9, PSMG2, PSTPIP1, RAB27A, RBCK1, RELA, RIPK1, RNASEH2A, RNASEH2B, RNASEH2C, RNF31, SAMD9L, SAMHD1, SH2D1A, SH3BP2, SLC29A3, STAT2, STAT4, STAT6, STING1, STX11, STXBP2, SYK, TBK1, TBXAS1, TLR7, TNFAIP3, TNFRSF11A, TNFRSF1A, TREX1, TRNT1, UBA1, UNC13D, UNC93B1, USP18, WDR1, XIAP, ZNF1
PreventionGenetics (Abbott) PGmax Inborn Errors of Immunity / Primary Immunodeficiency Panel (13999)	651	84	26	76%	ALPK1, AP1M2, ARF1, ATAD3A, DDX38, DPP9, DYSF, F12, HMGC51, IL1R1, IL33, IRAK2, LACC1, NCKAP1, PLCG1, PLD4, PMVK, PSMA5, PSMA6, PSMB10, PSMD12, PTPN1, REXO2, SHARPIN, TRAP1, UBA1	ACP5, ADA2, ADAM17, ADAR, AP1S3, ARPC1B, C2ORF69, CARD14, CDC42, CEBPE, COPA, DNASE1L3, DNASE2, ELF4, HCK, IFIH1, IKBKG, IL10, IL10RA, IL10RB, IL18BP, IL1RN, IL36RN, IRAK4, ISG15, JAK1, LPIN2, LSM11, LYN, MEFV, MRTFA, MVK, NLRC4, NLRP1, NLRP12, NLRP3, NOD2, OAS1, OTULIN, PLCG2, POLA1, POMP, PRF1, PSMA3, PSMB4, PSMB8, PSMB9, PSMG2, PSTPIP1, RAB27A, RBCK1, RELA, RIPK1, RNASEH2A, RNASEH2B, RNASEH2C, RNF31, RNU7-1, SAMD9L, SAMHD1, SH2D1A, SH3BP2, SLC29A3, STAT2, STAT4, STAT6, STING1, STX11, STXBP2, SYK, TBK1, TBXAS1, TLR7, TNFAIP3, TNFRSF11A, TNFRSF1A, TREX1, TRNT1, UNC13D, UNC93B1, USP18, WDR1, XIAP, ZNF1
Fulgent Genetics Comprehensive Primary Immunodeficiency NGS Panel	596	79	31	72%	AP1M2, ARF1, ATAD3A, C2ORF69, DDX38, DPP9, DYSF, F12, HCK, HMGC51, IKBKG, IL1R1, IL33, IRAK2, LACC1, LYN, NCKAP1, PLCG1, PLD4, PMVK, PSMA5, PSMA6, PSMB10, PSMD12, PTPN1, REXO2, RNU7-1, SHARPIN, SYK, TBXAS1, TRAP1	ACP5, ADA2, ADAM17, ADAR, ALPK1, AP1S3, ARPC1B, CARD14, CDC42, CEBPE, COPA, DNASE1L3, DNASE2, ELF4, IFIH1, IL10, IL10RA, IL10RB, IL18BP, IL1RN, IL36RN, IRAK4, ISG15, JAK1, LPIN2, LSM11, MEFV, MRTFA, MVK, NLRC4, NLRP1, NLRP12, NLRP3, NOD2, OAS1, OTULIN, PLCG2, POLA1, POMP, PRF1, PSMA3, PSMB4, PSMB8, PSMB9, PSMG2, PSTPIP1, RAB27A, RBCK1, RELA, RIPK1, RNASEH2A, RNASEH2B, RNASEH2C, RNF31, SAMD9L, SAMHD1, SH2D1A, SH3BP2, SLC29A3, STAT2, STAT4, STAT6, STING1, STX11, STXBP2, TBK1, TLR7, TNFAIP3, TNFRSF11A, TNFRSF1A, TREX1, TRNT1, UBA1, UNC13D, UNC93B1, USP18, WDR1, XIAP, ZNF1
Invitae / Labcorp Invitae Primary Immunodeficiency Panel (08100)	429	71	39	65%	AP1M2, AP1S3, ARF1, ATAD3A, C2ORF69, DDX38, DPP9, DYSF, ELF4, F12, HCK, HMGC51, IKBKG, IL1R1, IL33, IRAK2, LACC1, LSM11, NCKAP1, PLCG1, PLD4, PMVK, PSMA5, PSMA6, PSMB10, PSMB9, PSMD12, PTPN1, REXO2, RNU7-1, SHARPIN, STAT6, SYK, TBK1, TBXAS1, TRAP1, UBA1, USP18, ZNF1	ACP5, ADA2, ADAM17, ADAR, ALPK1, ARPC1B, CARD14, CDC42, CEBPE, COPA, DNASE1L3, DNASE2, IFIH1, IL10, IL10RA, IL10RB, IL18BP, IL1RN, IL36RN, IRAK4, ISG15, JAK1, LPIN2, LYN, MEFV, MRTFA, MVK, NLRC4, NLRP1, NLRP12, NLRP3, NOD2, OAS1, OTULIN, PLCG2, POLA1, POMP, PRF1, PSMA3, PSMB4, PSMB8, PSMG2, PSTPIP1, RAB27A, RBCK1, RELA, RIPK1, RNASEH2A, RNASEH2B, RNASEH2C, RNF31, SAMD9L, SAMHD1, SH2D1A, SH3BP2, SLC29A3, STAT2, STAT4, STING1, STX11, STXBP2, TLR7, TNFAIP3, TNFRSF11A, TNFRSF1A, TREX1, TRNT1, UNC13D, UNC93B1, WDR1, XIAP
Blueprint Genetics Primary Immunodeficiency Panel (IM0301)	336	63	47	57%	ALPK1, AP1M2, AP1S3, ARF1, ATAD3A, C2ORF69, DDX38, DPP9, DYSF, ELF4, F12, HCK, HMGC51, IKBKG, IL18BP, IL1R1, IL33, IRAK2, LACC1, LSM11, LYN, NCKAP1, OAS1, PLCG1, PLD4, PMVK, PSMA3, PSMA5, PSMA6, PSMB10, PSMB9, PSMD12, PSMG2, PTPN1, REXO2, RNU7-1, SH3BP2, SHARPIN, STAT4, STAT6, SYK, TBK1, TBXAS1, TLR7, TNFRSF11A, TRAP1, ZNF1	ACP5, ADA2, ADAM17, ADAR, ARPC1B, CARD14, CDC42, CEBPE, COPA, DNASE1L3, DNASE2, IFIH1, IL10, IL10RA, IL10RB, IL1RN, IL36RN, IRAK4, ISG15, JAK1, LPIN2, MEFV, MRTFA, MVK, NLRC4, NLRP1, NLRP12, NLRP3, NOD2, OAS1, OTULIN, PLCG2, POLA1, POMP, PRF1, PSMA3, PSMB4, PSMB8, PSTPIP1, RAB27A, RBCK1, RELA, RIPK1, RNASEH2A, RNASEH2B, RNASEH2C, RNF31, SAMD9L, SAMHD1, SH2D1A, SLC29A3, STAT2, STING1, STX11, STXBP2, TNFAIP3, TNFRSF1A, TREX1, TRNT1, UBA1, UNC13D, UNC93B1, USP18, WDR1, XIAP



Comparison of U.S. Genetic Testing Panel Options for Autoinflammatory Diseases

Ordering, Assistance, Services & Availability

LABORATORY / PANEL	PROVIDER ORDERING	BILLING	FINANCIAL ASSISTANCE	SPONSORED / FREE TESTING	PATIENT GENETIC COUNSELING	INTERNATIONAL AVAILABILITY
Seattle Children's Molecular Genetics Laboratory ImmuneSeq Inborn Errors of Immunity Panel (LAB3797)	Order form Fax form to 206-985-3193 More information	Bills insurance; institutional billing preferred.	Contact Seattle Children's for information	None identified	None identified	U.S. external orders accepted; international not confirmed.
PreventionGenetics (Abbott) PGmax Inborn Errors of Immunity / Primary Immunodeficiency Panel (13999)	Provider ordering	Bills insurance.	Financial assistance	Program information	None identified	Available internationally; return shipping not prepaid outside the U.S. and Canada.
Fulgent Genetics Comprehensive Primary Immunodeficiency NGS Panel	Provider ordering	Bills insurance; institutional billing available.	Financial assistance	None identified	None identified	International availability not confirmed.
Invitae / Labcorp Invitae Primary Immunodeficiency Panel (08100)	Provider ordering	Bills insurance.	Financial assistance	Invitae Unlock™ Immunology Program	Patient Genetic Counseling Services with Genome Medical	U.S. and Canada.
Blueprint Genetics Primary Immunodeficiency Panel (IM0301)	Provider ordering	Institutional billing only.	None identified	None identified	None identified	Available internationally. U.S. institutional agreement required; Orders processed in Finland.

Updated September 2026. Confirm current information directly with the laboratory before ordering. SAID gene percentage is the percentage of currently known autoinflammatory-associated genes. This chart is provided for education and comparison. Inclusion does not represent an endorsement or indicate that one test is best. Because symptoms can overlap across autoinflammatory diseases, immune deficiencies, autoimmune conditions, cytopenias, and other immune-dysregulation disorders, broad immune panels are generally preferred over narrow autoinflammatory-only panels.