



Comparison of US Labs Offering Genetic Testing for Autoinflammatory Diseases

LABORATORY	MNG Labs	Fulgent	Invitae	Invitae	Blueprint Genetics	Prevention Genetics	ARUP Labs or GeneDX
TEST PANEL ORDERING INFO	Fever Syndromes NGS319	Periodic Fever/ Autoinflammatory NGS Panel	Primary Immuno-deficiency Panel 08100	Autoinflammatory Syndrome Panel 08120	Autoinflammatory Syndrome Panel or PI panel*	Periodic Fever Syndromes Sequencing Panel	Periodic Fever Syndromes Panel
BILLING INFO & COST (as of 2/19)	\$1995 contracts w/institutions Self-pay option	\$ price unlisted Bills insurance Self pay options & pt. assistance	\$250 Pt. self-pay. Bills insurance. \$100 Max pt. co-pay w/ insurance	\$250 Pt. self-pay. Bills insurance. \$100 Max pt. co-pay w/ insurance	\$1400-\$1700* Bills insurance Financial assistance for patients	\$640 Bills insurance	\$ price unlisted Bills insurance
GENES TESTED	33	28	<u>207</u>	12, 72, 109	32, <u>274*</u>	13	7
AUTOINFLAMMATORY GENES IN THE PANEL: (The number of autoinflammatory genes in the panel is in the red block)	23: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, CECR1, NLRP12, PLCG2, PSMB8, IL1RN, IL36RN, IL10, IL10RA & RB, TMEM173, TNFRSF11A, NLRP7, SH3BP2, SLC29A3, TRNT1.	25: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, CECR1, NLRC4, PLCG2, NLRP12, PSMB8, NLRP1, PLCG2, IL1RN, IL36RN, IL10, IL10RA & RB, TMEM173, TNFRSF11A, NLRP7, SH3BP2, SLC29A3.	40: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, CECR1, TNFRSF1A, CARD14, NLRC4, NLRP12, NOD2, PSMB8, PLCG2, TRNT1, RBCK1, IL1RN, IL36RN, IL10, IL10RA & RB, SH3BP2, SLC29A3, COPA, + TMEM173, ACP5, TREX1, ADAR, XIAP, SAMHD1, IFIH1, RNASEH2(A,B,& C), PRF1, STX11, STXBP2, RAB27A, UNC13D, SH2D1A, SH3BP2. OTHER: ELANE, NFAT5, ADAM17. + FULL PI PANEL, ALPS, HLH, IBD	23: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, CECR1, TNFRSF1A, CARD14, NLRC4, NLRP12, NOD2, PSMB8, PLCG2, TRNT1, RBCK1, IL1RN, IL36RN, IL10, IL10RA & RB, SH3BP2, SLC29A3, COPA. ELANE, NFAT5, ADAM17, + OTHER GENES Missing: TNFAIP3, LYN, ACP5, TNFRSF11A, NLRP1 on both invitae panels. (A 12 PFS gene panel is also available)	28 or 40*: MEFV, LPIN2, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, MVK, NLRP12, PLCG2, PSMB8, IL1RN, IL36RN, ACP5, TMEM173, TREX1, ADAR, RNASEH2(A,B,& C), SAMHD1, IFIH1, OTULIN, TNFAIP3, NLRC4, TRNT1, NLRP1, SLC29A3, (*40 in 274 FULL PI panel) COPA* CECR1*, XIAP*, IL10* IL10RA* & RB*, RAB27A* STX11*, STXBP2*, PRF1*, UNC13D*, SH2D1A*. ELANE, DDX58, ISG15, PSENEN +ALPS, HLH, IBD Missing: TNFRSF11A, LYN.	12: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, NLRP12, PSMB8, IL36RN, TNFAIP3. ELANE Missing: NLRP1, ACP5, IL1RN, LYN, TMEM173, TREX1, ADAR, NLRC4, RNASEH2(A,B,& C), SAMHD1, IFIH1, OTULIN, SLC29A3, XIAP, TNFRSF11A, COPA.	6: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, TNFRSF1A. ELANE Missing: CARD14, CECR1, NLRP12, PLCG2, PSMB8, IL1RN, IL36RN, IL10, IL10RA & RB, TMEM173, TNFRSF11A, SLC29A3, NLRP1, ACP5, LYN, XIAP, TMEM173, TREX1, ADAR, NLRC4, SAMHD1, IFIH1, RNASEH2(A,B,& C), OTULIN, COPA.
OTHER GENES IN THE PANEL (starts w/ELANE)	ELANE, RBCK1, GCH1, FOXP3, HTR1A, NEFL, ORAI1, TAM2, SLC19A3, IMD9, SCO2, SLC25A19, TLR3, TPK1, TRAF3, TRAF3IP2 Missing: LYN, NLRP1, OTULIN, XIAP, TNFAIP3, COPA.	ELANE, RBCK1, HAX1, AP153. Missing: TNFAIP3, LYN, ACP5, XIAP, COPA.					