



Comparison of US Labs Offering Genetic Testing for Autoinflammatory Diseases

LABORATORY	MNG Labcorp	Fulgent	Invitae	Invitae	Blueprint Genetics	Prevention Genetics	ARUP Labs
TEST PANEL ORDERING INFO	Fever Syndromes NGS319	Periodic Fever/ Autoinflammatory or PI Panel*	Primary Immuno-deficiency Panel [P1 Panel*] 08100	Autoinflammatory Syndrome Panel 08120	Autoinflammatory Syndrome Panel or PI Panel*	Periodic Fever/ Autoinflammatory or PI Panel*	Periodic Fever Syndromes Panel
BILLING INFO & COST (as of 2/22)	\$ price unlisted contracts w/institutions. Self-pay option.	\$ price unlisted Bills insurance. Self pay options & pt. assistance.	\$250 Pt. self-pay. Bills insurance. ≤\$100 average copay w/insurance.	\$250 Pt. self-pay. Bills insurance. ≤\$100 average copay w/insurance.	\$1550 - \$1650* Bills insurance. Financial assistance for patients.	\$890 - 13 genes \$1490 - PI Panel* Bills insurance. Payment plans available to pts.	\$ price unlisted Bills insurance.
GENES TESTED	167	47, <u>471</u>*	<u>429</u>	18, <u>156</u>*	47, <u>336</u>*	13, <u>586</u>*	10
AUTOINFLAMMATORY GENES IN THE PANEL: (The number of autoinflammatory genes in the panel is in the red block)	26: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, ADA2, NLRP12, PLCG2, PSMB8, IL1RN, IL36RN, TMEM173, IL10RA & RB, TNFRSF11A, SH3BP2, RBCK1, NLRC4, SLC29A3, TRNT1, ACP5, STX11, XIAP.	43 or 50*: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, ADA2, NOD2, TNFRSF1A, CARD14, AP1S3, COPA, DDX58, LPIN2, ACP5, NLRC4, PLCG2, RIPK1, NLRP12, PSMB8, NLRP1, IL36RN, IL1RN, ADAR, POMP, IL10RA & RB, TNFAIP3, IFIH1, OTULIN, TMEM173, RBCK1, SH3BP2, SLC29A3, PSENEN, SAMHD1, USP18, ADAM17, RNASEH2(A,B,& C), TREX1, TRNT1, TNFRSF11A. OTHER: ELANE. (*50 in 471 PI panel) STX11, STXBP2, SH2D1A, PRF1, UNC13D, WDR1, XIAP. +ALPS, HLH, IBD	56: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, ADA2, TNFRSF1A, CARD14, AP1S3, NLRC4, NLRP12, NOD2, PSMB8, PLCG2, TRNT1, RBCK1, IL1RN, IL36RN, IL10, IL10RA & RB, SH3BP2, SLC29A3, COPA. + RIPK1, TMEM173, TNFRSF11A, ACP5, TREX1, ADAR, NLRP1, POMP, XIAP, SAMHD1, IFIH1, RELA, RNASEH2(A,B,& C), OTULIN, PRF1, STX11, STXBP2, WDR1, RAB27A, UNC13D, LYN, SH2D1A, SH3BP2, TNFAIP3, PSENEN, ADAM17, PSMG2, PSMA3, PSMB4, SAMD9L, RBCK1, DNASE1L3, DNASE2	15, 46*: MEFV, NLRP3, PSTPIP1, ADA2, TNFRSF1A, PSMB8, TRNT1, NLRC4, MVK, NLRP12, LPIN2, POMP, PSMB4, PSMA3, PSMG2. OTHER: ELANE. + these in 156 gene panel: IL1RN, CARD14, PLCG2, TREX1, RBCK1, XIAP, IL36RN, IL10RA & RB, ACP5, SAMHD1, SH3BP2, SLC29A3, COPA, ADAM17, ADAR, NOD2, LYN, RNASEH2(A,B,&C), SH2D1A, STXBP2, TMEM173, ILIH1, STX11, UNC13D, RIPK1, TNFAIP3, TNFRSF11A, NLRP1, OTULIN, DNASE1L3, DNASE2	37 or 48*: MEFV, LPIN2, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, MVK, NLRP12, PLCG2, PSMB8, IL1RN, IL36RN, ACP5, ADA2, TMEM173, TREX1, ADAR, RNASEH2(A,B , PSENEN, SAMHD1, IFIH1, OTULIN, TNFAIP3, NLRC4, TRNT1, NLRP1, SLC29A3, COPA, WDR1, IL10RA & RB, POMP, UBA1, PSMB4, DNASE1L3, OTHER: ELANE. + these in 336 PI panel: RAB27A, STX11, STXBP2, PRF1, UNC13D, SH2D1A, RELA, DDX58, XIAP, ISG15.	12 or 59*: MEFV, LPIN2, MVK, NLRP3, PSTPIP1, NOD2, TNFRSF1A, CARD14, NLRP12, PSMB8, IL36RN, TNFAIP3. OTHER: ELANE. + these in 586 gene panel: ACP5, ADA2, RBCK1, ADAM17, ADAR, AP1S3, COPA, DDX58, IFIH1, IL1R, NLRC4, NLRP1, IL10RA & RB, RELA, OTULIN, PLCG2, POMP, RIPK1, PSMB8, PSENEN, SAMHD1, SH3BP2, RNASEH2(A,B,&C), SLC29A3, STX11, STXBP2, PRF1, UNC13D, SH2D1A, TMEM173, TNFRSF11A, TREX1, TRNT1, LYN, WDR1, XIAP, PSMA3, PSMB4, PSMG2, DNASE1L3, DNASE2, SAMD9L, RBCK1, RNF31. Missing: UBA1	9: MEFV, LPIN2, MVK, NLRP3, NLRP12, NOD2, PSTPIP1, TNFRSF1A, TNFAIP3. OTHER: ELANE. Missing: CARD14, ADA2, 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, WDR1, XIAP, POMP, RELA, RIPK1, UBA1 & more.
OTHER GENES IN THE PANEL (starts w/ELANE)	Missing: LYN, NLRP1, XIAP, OTULIN, RELA, WDR1, POMP, TNFAIP3, RAB27A, COPA, RIPK1, PSENEN, ISG15, IFIH1, ADAM17, RNASEH2(A,B,&C), UNC13D, ADAR, PRF1, SH2D1A, SAMHD1, TREX1, STXBP2, UBA1.	Missing: LYN, RELA, UBA1.	OTHER: ELANE. Missing: UBA1	Missing: RELA, WDR1, UBA1. Can order extra neuro panel for VEXAS (UBA1) w/Invitae	Missing: TNFRSF11A, LYN. Panels with VEXAS (UBA1)	Missing: UBA1	