



The following applies to AUTOG / Autoinflammatory Disorders Gene Panel. Testing is performed to evaluate for the presence of variants in coding regions and extending to +/- 10 base pairs of adjacent intronic sequence on either side of the coding exons of the genes analyzed. In addition, the analysis will cover select noncoding variants. Next-generation sequencing and/or a polymerase chain reaction-based quantitative method is performed to test for the presence of copy number variants in the genes analyzed. Confirmation of select reportable variants may be performed by alternate methodologies based on internal laboratory criteria.

This list is current from July 2023 to the present. This document is intended to highlight additional evaluations for variants of high clinical interest as well as technical limitations. However, this document does not comprehensively reflect all genomic regions covered by this test. For questions regarding transcripts, or genes or regions covered, contact the laboratory at 800-533-1710.

Genomic Build: GRCh37 (hg19) unless otherwise specified

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
ACP5	NM_001111035.3	-	-
ADA	NM_000022.4	chr20:g.43249076C>T (c.976-34G>A); chr20:g.43248503A>T (c.1079-15T>A)	-
ADA2	NM_001282225.2	-	-
ADAM17	NM_003183.6	-	-
ADAR	NM_001111.5	-	-
AIRE	NM_000383.4	-	-
ALPI	NM_001631.5	-	-
AP3B1	NM_003664.4	-	-
AP3D1	NM_001261826.3	-	-
ARPC1B	NM_005720.4	-	-
ASAH1	NM_177924.5	-	CNV analysis in exon 4 is not performed
C1QA	NM_015991.4	-	-
C1QB	NM_000491.5	-	-
C1QC	NM_172369.5	-	-
C1R	NM_001733.7	-	CNV analysis in exons 1-7 is not performed
C1S	NM_201442.4	-	-
C2	NM_000063.6	chr6:g.31902068_31902095del (c.841_849+19del); chr6:g.31911326_31911347del (c.1567+22_1567+43del)	-
CARD11	NM_032415.6	-	-
CARD14	NM_024110.4	-	-
CASP10	NM_032977.4	-	-
CASP8	NM_001228.4	-	-
CD3G	NM_000073.2	-	-
CD40LG	NM_000074.3	-	-
CD48	NM_001778.4	-	-
CD55	NM_000574.5	-	-
CDC42	NM_001791.4	-	-

Targeted Genes and Methodology Details for Autoinflammatory Disorders Gene Panel (continued)

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>COPA</i>	NM_004371.4	-	-
<i>CTLA4</i>	NM_005214.5	-	-
<i>DDX58</i>	NM_014314.4	-	-
<i>DNASE1</i>	NM_005223.3	-	-
<i>DNASE1L3</i>	NM_004944.4	-	-
<i>DNASE2</i>	NM_001375.3	-	-
<i>DOCK8</i>	NM_203447.3	chr9:g.317025 to chr9:g.317028 (c.742-18 to c.742-15); chr9:g.372260_372348del (c.2083_2109+62del)	-
<i>FADD</i>	NM_003824.3	-	-
<i>FOXP3</i>	NM_014009.4	chrX:g.49119820_49121205del (c.-105_-23+1303del, also known as g.del-6247_-4859); chrX:g.49114969C>A (c.-7G>T); chrX:g.49106919 to chrX:g.49106917 (c.*876 to c.*878)	-
<i>GATA2</i>	NM_032638.5	chr3:g.128202114 through chr3:g.128202177 (c.1017+526 through c.1017+589, corresponding to a highly conserved intronic region); chr3:g.128200787_128200806dup (c.1018-17_1020dup)	-
<i>HAVCR2</i>	NM_032782.5	-	-
<i>ICOS</i>	NM_012092.4	-	-
<i>IFIH1</i>	NM_022168.4	-	-
<i>IKBKG</i>	NM_001099857.3	chrX:g.153775960G>C (c.-16G>C); chrX:g.153788599A>T (c.519-23A>T); chrX:g.153787731C>T (c.518+866C>T)	CNV analysis in exons 3–10 is not performed
<i>IL10</i>	NM_000572.3	-	-
<i>IL10RA</i>	NM_001558.3	-	-
<i>IL10RB</i>	NM_000628.5	-	-
<i>IL1RN</i>	NM_173841.2; NM_173842.3	-	-
<i>IL2RA</i>	NM_000417.3	-	-
<i>IL2RB</i>	NM_000878.5	-	-
<i>IL2RG</i>	NM_000206.2	chrX:g.70331494G>A (c.-105C>T); chrX:g.70330553T>C (c.270-15A>G); chrX:g.70329246_70329257del (c.595-15_595-4del)	-
<i>IL36RN</i>	NM_012275.3	-	-
<i>ISG15</i>	NM_005101.4	-	-
<i>ITCH</i>	NM_031483.7	-	-
<i>ITGB2</i>	NM_000211.5	chr21:g.46321660A>C (c.500-12T>G); chr21:g.46320404G>T (c.742-14C>A)	-
<i>ITK</i>	NM_005546.3	-	-
<i>JAK1</i>	NM_002227.4	-	-
<i>LACC1</i>	NM_001128303.2	-	-
<i>LIG4</i>	NM_002312.3	-	-

Targeted Genes and Methodology Details for Autoinflammatory Disorders Gene Panel (continued)

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>LPIN2</i>	NM_014646.2	-	-
<i>LRBA</i>	NM_006726.4	-	CNV analysis in exons 20 and 39 is not performed
<i>LSM11</i>	NM_173491.4	-	-
<i>LYN</i>	NM_002350.4	-	-
<i>LYST</i>	NM_000081.4	-	-
<i>MEFV</i>	NM_000243.2	-	-
<i>MVK</i>	NM_000431.4	-	-
<i>NLRC4</i>	NM_021209.4	-	CNV analysis in exon 2 is not performed
<i>NLRP1</i>	NM_033004.4	-	-
<i>NLRP12</i>	NM_144687.3	-	-
<i>NLRP3</i>	NM_004895.4	-	-
<i>NOD2</i>	NM_022162.3	Variants reported to be associated with risk for Yao syndrome, including the noncoding variant chr16:g.50756774C>T (c.2798+158C>T)	-
<i>OAS1</i>	NM_016816.4	-	-
<i>OTULIN</i>	NM_138348.6	-	-
<i>PIK3CD</i>	NM_005026.5	-	-
<i>PIK3R1</i>	NM_181523.3	-	-
<i>PLCG2</i>	NM_002661.5	-	-
<i>POLA1</i>	NM_016937.4	chrX:24744696A>G (c.1375-354A>G)	CNV analysis in exons 12, 17, 27, and 28 is not performed
<i>POMP</i>	NM_015932.6	chr13:g.29233227del (c.-95del)	-
<i>PRF1</i>	NM_001083116.3	-	-
<i>PRKCD</i>	NM_006254.4	-	-
<i>PSMA3</i>	NM_002788.4	-	-
<i>PSMB10</i>	NM_002801.4	-	-
<i>PSMB4</i>	NM_002796.3	-	-
<i>PSMB8</i>	NM_148919.4	-	-
<i>PSMB9</i>	NM_002800.5	-	-
<i>PSMG2</i>	NM_020232.5	-	-
<i>PSTPIP1</i>	NM_003978.5	-	-
<i>RAB27A</i>	NM_004580.5	-	-
<i>RBCK1</i>	NM_031229.4	-	-
<i>RIPK1</i>	NM_003804.6	chr6:g.3083547_3083567del (c.688_688+20del)	-
<i>RNASEH2A</i>	NM_006397.2	-	-
<i>RNASEH2B</i>	NM_024570.4	chr13:g.51501530G>A (c.65-13G>A)	CNV analysis in exon 8 is not performed
<i>RNASEH2C</i>	NM_032193.4	-	-

Targeted Genes and Methodology Details for Autoinflammatory Disorders Gene Panel (continued)

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>RNF31</i>	NM_017999.5	-	-
<i>RNU7-1</i>	NR_023317.1	-	CNV analysis is not performed
<i>SAMD9L</i>	NM_152703.5	-	-
<i>SAMHD1</i>	NM_015474.3	-	-
<i>SH2D1A</i>	NM_002351.4	-	-
<i>SH3BP2</i>	NM_003023.4	-	-
<i>SKIV2L(SKIC2)</i>	NM_006929.5	-	-
<i>SLC29A3</i>	NM_018344.6	-	Sequence and CNV analysis in exon 1 is not performed
<i>SLC37A4</i>	NM_001164277.1	-	-
<i>STAT1</i>	NM_007315.3	-	-
<i>STAT2</i>	NM_005419.4	-	-
<i>STAT3</i>	NM_139276.2	chr17:g.40478306G>A (c.1282-89C>T)	-
<i>STIM1</i>	NM_003156.3	-	-
<i>STING1</i>	NM_198282.4	-	-
<i>STX11</i>	NM_003764.4	-	-
<i>STXBP2</i>	NM_006949.4	chr19:g.7705756_7705763del (c.326-30_326-23del); chr19:g.7705763_7705770del (c.326-23_326-16del)	-
<i>TLR7</i>	NM_016562.4	-	-
<i>TNFAIP3</i>	NM_006290.4	-	-
<i>TNFRSF1A</i>	NM_001065.4	chr12:g.6443045C>T (c.194-14G>A)	-
<i>TPP2</i>	NM_003291.4	-	CNV analysis in exon 28 is not performed
<i>TREX1</i>	NM_033629.6	-	-
<i>TRNT1</i>	NM_182916.3	-	-
<i>UNC13D</i>	NM_199242.2	chr17:g.73839908 to chr17:g.73839907C>T (c.118-308 to c.118-307); chr17:g.73827442C>T (c.2448-13G>A); chr17:g.73826245C>T (c.2831-13G>A)	-