



Genomics of Rare Immune Disorders

A COMPREHENSIVE GENE LIST

including the 2015 IUIS genes

(Version GRID 2.0)

www.gridgenomics.org.uk

IUIS = International Union of Immunological Societies

* non official HGNC gene name

I. Immunodeficiencies affecting cellular and humoral immunity

ADA	CIITA	JAK3	RFXANK
AK2	CORO1A	LCK	RFXAP
B2M	CTPS1	LIG4	RHOH
BCL10	DCLRE1C	LRBA	STK4 (MST1)*
CARD11	DOCK2	MAGT1	TAP1
CD247	DOCK8	MALT1	TAP2
CD27	ICOS	MAP3K14 (NIK)*	TAPBP
CD3D	IKBKB	NHEJ1 (Cernunnos/XLF)*	TNFRSF4 (OX40)*
CD3E	IL21	PRKDC	TRAC
CD3G	IL21R	PTPRC	UNC119
CD40	IL2RG	RAG1	ZAP70
CD40LG	IL7R	RAG2	
CD8A	ITK	RFX5	

II. CID with associated or syndromic features

ACD	MTHFD1	RBCK1 (HOIL1)*	TBX1
ATM	NFKBIA (IKBA)*	RMRP	TCN2
BLM	NHP2 (NOLA2)*	RNF168	TERC
CCBE1	NBN (NBS1)*	RTEL1	TERT
CHD7	NOP10 (NOLA3)*	SEMA3E	TINF2
DCLRE1B	ORAI1	SLC46A1	TTC7A
DKC1 (DKC)*	PARN	SMARCAL1	WAS
DNMT3B	PGM3	SPINK5	WIPF1
EPG5	PMS2	SP110	ZBTB24
FOXP1	RNF31 (HOIP1)*	STAT3	
IKBKG (NEMO)*	PNP (NP)*	STAT5B	
MCM4	POLE (POLE1)*	STIM1	

III. Predominantly antibody deficiencies

AICDA	CR2 (CD21)*	MS4A1 (CD20*)	TNFRSF13B (TACI)*
BLNK	DKC1 (DKC)*	MOGS	TNFRSF13C (BAFF-R)*
BTK	GATA2	NFKB1	TNFSF12 (TWEAK)*
CARD11	IGKC	NFKB2	TRNT1
CD19	IGHM	PIK3CD	TTC37
CD79A	IIGLL1	PIK3R1	UNG
CD79B	INO80	SART3 (p110)*	
CD81	MSH6	TCF3	

IV. Diseases of immune dysregulation

ACPS5	CTLA4	IL10RB	RNASEH2A	TMEM173 (STING)*
ADA2 (CECR1)*	FADD	IL2RA	RNASEH2B	TPP2
ADAR (ADAR1)*	FASLG	ITCH	RNASEH2C	TREX1
AIRE	FOXP3	LYST	SAMHD1	UNC13D
AP3B1	FAS (TNFRSF6)*	NFAT5	SH2D1A	XIAP
BLOC1S6 (PLDN)*	IFIH1	PRF1	STAT3	
CASP10	IL10	PRKCD	STX11	
CASP8	IL10RA	RAB27A	STXBP2	

V. Congenital defects of phagocyte number, function, or both

ACTB	ELANE	JAGN1	SLC37A4 (G6PT1)*
CEBPE	FERMT3	LAMTOR2 (ROBLD3)*	TAZ
CLPB	FPR1	NCF1	USB1 (c16orf57)*
CSF2RA	G6PC3	NCF2	VPS13B
CSF3R	GATA2	NCF4	VPS45
CTSC	GFI1	RAC2	WAS
CYBA	HAX1	SBDS	
CYBB	ITGB2	SLC35C1	

VI. Defects in intrinsic and innate immunity

APOL1	IKBKG (NEMO)*	IRF8	TICAM1 (TRIF)*
CARD9	IL12B	ISG15	TLR3
CXCR4	IL12RB1	MYD88	TMC6 (EVER1)*
CYBB	IL17F	RORC	TMC8 (EVER2)*
FCGR3A (CD16)*	IL17RA	RPSA	TRAF3
FCGR3B (CD16)*	IL17RC	STAT1	TRAF3IP2 (ACT1)*
IFNGR1	IRAK4	STAT2	TYK2
IFNGR2	IRF7	TBK1	UNC93B1

VIII. Complement deficiencies

C1QA	C7	CFHR2
C1QB	C8A	CFHR3
C1QC	C8B	CFHR4
C1R	C8G	CFHR5
C1S	C9	CFI
C2	CD46	CFP (PFC)*
C3	CD59	FCN3
C4A	CFB	ITGAM
C4B	CFD	MASP2
C5	CFH	SERPING1
C6	CFHR1	THBD

IX. Phenocopies of PID

CSF2RA
FAS (TNFRSF6)*
IL17A
IL22
KRAS
NLRP3
NRAS
STAT3

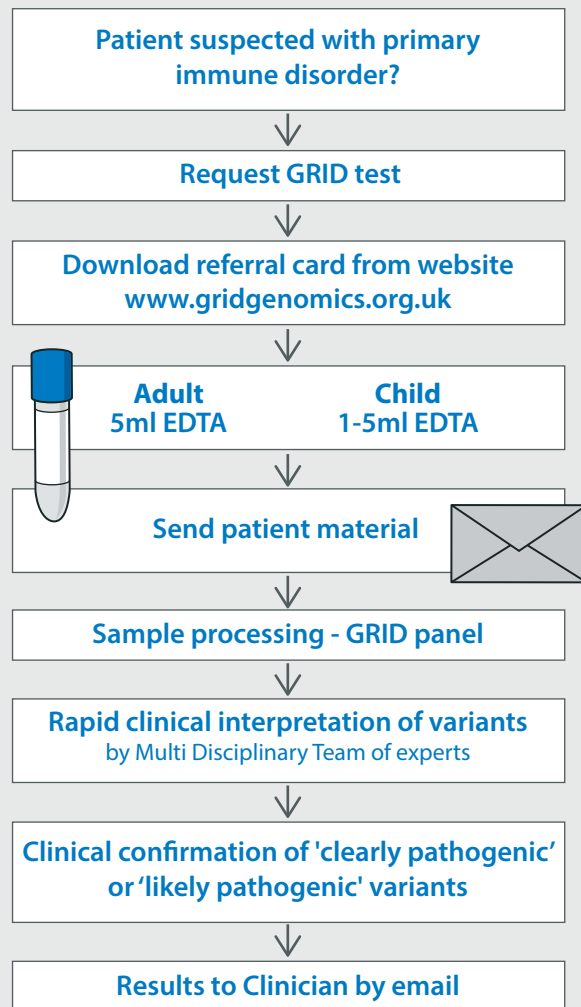
VII. Auto-inflammatory disorders

ADAM17
CARD14
COPA
IL1RN
IL36RN
LPIN2
MEFV
MVK
NLRP3
NLRP4
NLRP12
NOD2
PLCG2
PSMB8
PSTPIP1
SH3BP2
SLC29A3
TNFRSF1A

Additional genes

ARPC1B
F12
IKZF1 (IKAROS)*
LIG1
MBL2
MPO
MRE11

FROM SAMPLE TO DIAGNOSIS




The GRID test is free of charge until 2018

For non-UK submissions, please contact info@gridgenomics.org.uk

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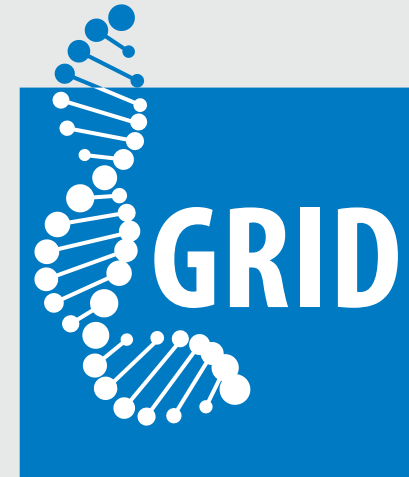


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GENE PANEL TEST



Genomics of Rare
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Genetic diagnosis
for patients with
primary immune
disorders

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