

Human Hyperinflammation and Immune Response related to COVID-19		Ref : IFIR1H1
Gene Name	Symbol	Pathway
CD38 molecule	CD38	Immune system
CD4 molecule	CD4	Immune system
CD44 molecule (Indian blood group)	CD44	Immune system
CD69 molecule	CD69	Immune system
CD74 molecule	CD74	Immune system
CD8a molecule	CD8A	Immune system
CD8b molecule	CD8B	Immune system
granzyme B	GZMB	Immune system
major histocompatibility complex, class II, DM alpha	HLA-DMA	Immune system
major histocompatibility complex, class II, DM beta	HLA-DMB	Immune system
major histocompatibility complex, class II, DR beta 1	HLA-DRB1	Immune system
interferon alpha 2	IFNA2	Immune system
interferon alpha and beta receptor subunit 1	IFNAR1	Immune system
interferon beta 1	IFNB1	Immune system
interferon regulatory factor 3	IRF3	Immune system
Janus kinase 1	JAK1	Immune system
Janus kinase 2	JAK2	Immune system
Janus kinase 3	JAK3	Immune system
killer cell lectin like receptor C1	KLRC1	Immune system
lysosomal associated membrane protein 1	LAMP1	Immune system
mindbomb E3 ubiquitin protein ligase 1	MIB1	Immune system
Nedd4 family interacting protein 2	NDFIP2	Immune system
NLR family member X1	NLRX1	Immune system
signal transducer and activator of transcription 1	STAT1	Immune system
signal transducer and activator of transcription 2	STAT2	Immune system
signal transducer and activator of transcription 3	STAT3	Immune system
TANK binding kinase 1	TBK1	Immune system
TBK1 binding protein 1	TBKP1	Immune system
toll like receptor 2	TLR2	Immune system
toll like receptor 3	TLR3	Immune system
toll like receptor 4	TLR4	Immune system

toll like receptor 7	TLR7	Immune system
TNF receptor superfamily member 4	TNFRSF4	Immune system
TNF receptor superfamily member 9	TNFRSF9	Immune system
TNF superfamily member 10	TNFSF10	Immune system
tripartite motif containing 59	TRIM59	Immune system
tyrosine kinase 2	TYK2	Immune system
angiotensin I converting enzyme 2	ACE2	Inflammation
amphiregulin	AREG	Inflammation
complement C5	C5	Inflammation
caspase 1	CASP1	Inflammation
C-C motif chemokine ligand 11	CCL11	Inflammation
C-C motif chemokine ligand 2	CCL2	Inflammation
C-C motif chemokine ligand 20	CCL20	Inflammation
C-C motif chemokine ligand 3	CCL3	Inflammation
C-C motif chemokine ligand 3 like 1	CCL3L1	Inflammation
C-C motif chemokine ligand 4	CCL4	Inflammation
C-C motif chemokine ligand 5	CCL5	Inflammation
C-C motif chemokine ligand 8	CCL8	Inflammation
C-reactive protein	CRP	Inflammation
colony stimulating factor 2	CSF2	Inflammation
colony stimulating factor 3	CSF3	Inflammation
C-X-C motif chemokine ligand 1	CXCL1	Inflammation
C-X-C motif chemokine ligand 10	CXCL10	Inflammation
C-X-C motif chemokine ligand 16	CXCL16	Inflammation
C-X-C motif chemokine ligand 2	CXCL2	Inflammation
C-X-C motif chemokine ligand 3	CXCL3	Inflammation
C-X-C motif chemokine ligand 5	CXCL5	Inflammation
C-X-C motif chemokine ligand 6	CXCL6	Inflammation
C-X-C motif chemokine ligand 8	CXCL8	Inflammation
C-X-C motif chemokine ligand 9	CXCL9	Inflammation
F2R like trypsin receptor 1	F2RL1	Inflammation
fibroblast growth factor 2	FGF2	Inflammation
interferon gamma	IFNG	Inflammation
interleukin 10	IL10	Inflammation
interleukin 12A	IL12A	Inflammation
interleukin 12B	IL12B	Inflammation
interleukin 15	IL15	Inflammation

interleukin 17A	IL17A	Inflammation
interleukin 18	IL18	Inflammation
interleukin 1 beta	IL1B	Inflammation
interleukin 1 receptor type 1	IL1R1	Inflammation
interleukin 2	IL2	Inflammation
interleukin 23 subunit alpha	IL23A	Inflammation
interleukin 2 receptor subunit alpha	IL2RA	Inflammation
interleukin 33	IL33	Inflammation
interleukin 6	IL6	Inflammation
interleukin 7	IL7	Inflammation
interleukin 9	IL9	Inflammation
neuregulin 1	NRG1	Inflammation
platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)	PDGFB	Inflammation
TIMP metalloproteinase inhibitor 1	TIMP1	Inflammation
tumor necrosis factor	TNF	Inflammation
vascular endothelial growth factor A	VEGFA	Inflammation
peptidylprolyl isomerase A (cyclophilin A)	PPIA	
actin, beta	ACTB	
TATA box binding protein	TBP	
beta-2-microglobulin	B2M	
ribosomal protein, large, P0	RPLP0	
Hypoxanthine guanine phosphoribosyl transferase I	HPRT1	
Transferrin receptor (p90, CD71)	TFRC	
Glucuronidase, beta	GUSB	
Positive control	QC1	
Positive control	QC2	
Negative control	QC3	
Negative control	QC4	

Reference genes

Controls