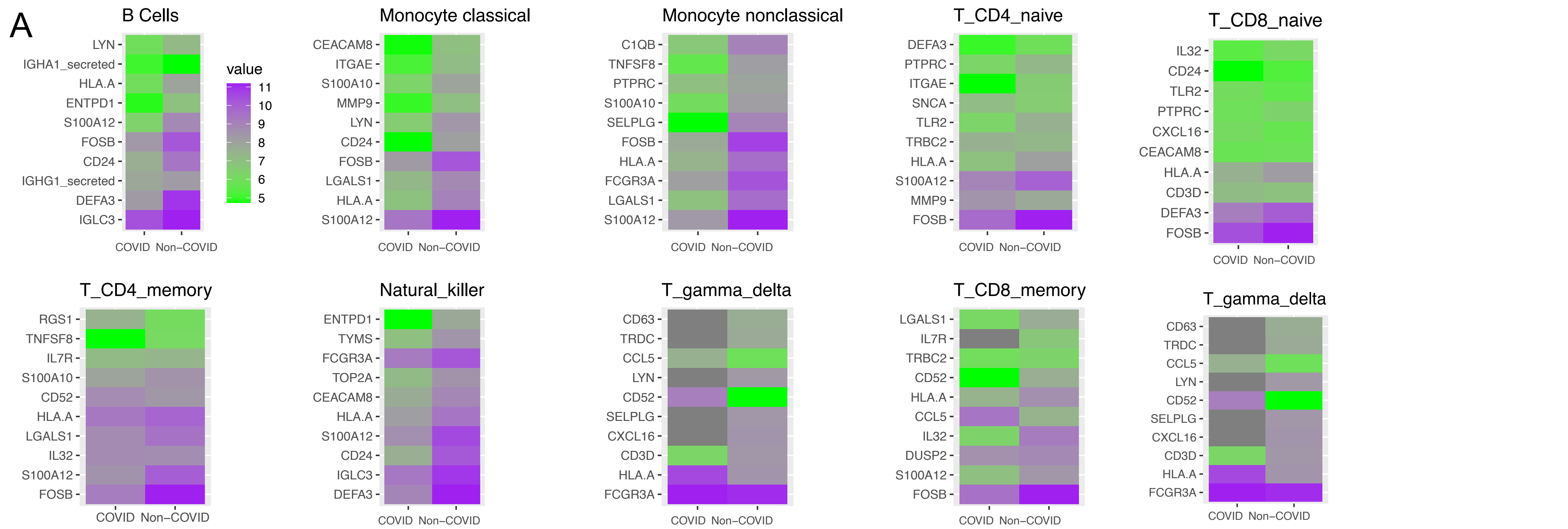


## Supplementary\_material\_s1

**Table S1:** The full description of the *p* values for Figure 3.

MILD COVID	SEVERE COVID-19	SEPSIS	SEPTIC SHOCK
IGLC3	IGLC3	FOSB	DEFA3
FOSB	MMP9	IGLC3	S100A12
DEFA3	FOSB	DEFA3	CD24
S100A12	S100A12	HLA.A	LGALS1
FCGR3A	DEFA3	S100A12	HLA.A
IL32	FCGR3A	IL32	IGLC3
TRBC2	CD52	ENTPD1	FCGR3A
CCL5	IGHG1_secreted	FCGR3A	FOSB
IGHG1_SECRETED	HLA.A	MMP9	SELPLG
CD3D	CLEC4E	LGALS1	CEACAM8
CD14	LGALS1	SELPLG	LYN
HLA.A	CD24	IGHG1_secreted	S100A10
LGALS1	SNCA	TLR2	STAT3
LYN	CEACAM8	S100A10	TOP2A
CLEC4E	LYN	CD24	IL32
PTPRC	S100A10	ITGAE	MMP9
DUSP2	IGHA1_secreted	LYN	PTPRC
IGHM_MEMBRANE	TOP2A	PTPRC	IGHG1_secreted
S100A10	PTPRC	CXCR4	ENTPD1
TLR2	RGS1	CD52	CD52
ALAS2	TLR2	CLEC4E	ITGAE
CXCL16	IL32	CD74	RNASE2
S100A9	IGHM_membrane	TNFSF8	TYMS
IGHM_SECRETED	TRBC2	CEACAM8	C10orf54
CD52	CD3D	SNCA	
CD3E	BCL2A1	C1QB	
RGS1	C1QB	IGHA1_secreted	
CD74	DUSP1	CASP5	
PIK3AP1	ENTPD1	PI3	
IFITM3	CXCL16	GAPDH	
NKG7	S100A9		
TNFSF8	FN1		
IL7R			
LAMP1			
CD24			
SNCA			
IGKC			
SELPLG			
CASP5			

	severe	non_severe
<b>B cells</b>	0.4492	< 2.2e-16
<b>NK</b>	0.5385	3.61E-03
<b>CD4 naive</b>	2.79E-07	< 2.2e-16
<b>CD4 memory</b>	0.5725	2.94E-15
<b>CD8 naive</b>	2.63E-01	1.15E-12
<b>CD8 memory</b>	0.8756	0.09553
<b>Gamma delta</b>	0.05197	0.1421
<b>Dendritic</b>	0.5725	0.8226
<b>classic</b>	< 2.2e-16	8.54E-12
<b>nonclassical</b>	0.03279	1.09E-08



**B**

	B	NK	Monocyte classical	Monocyte nonclassical	TCD4 naive	TCD4 memory	TCD8 naive	TCD8 memory	T gamma delta	Dendritic
COVID ICU										
Mild COVID										
Sepsis										
Septic shock										

**Figure S1:** The unique, most commonly expressed genes in COVID-19 and bacterial sepsis patients with mild and severe disease manifestations.

## Supplementary\_material\_S3

**Table S2:** Antibiotic dose administration in ICU patients.

[illegible]