Table 1. Enriched pathways for GSE183071 COVID-19 dataset DEGs.

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| **Enriched Pathways** | **p-values** |
| KEGG\_04010\_MAPK\_signaling\_pathway | 5.42E-20 |
| KEGG\_04060\_Cytokine-cytokine\_receptor\_interaction | 5.42E-20 |
| KEGG\_04064\_NF-kappa\_B\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 5.42E-20 |
| KEGG\_04145\_Phagosome | 5.42E-20 |
| KEGG\_04151\_PI3K-Akt\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 5.42E-20 |
| KEGG\_04210\_Apoptosis | 5.42E-20 |
| KEGG\_04380\_Osteoclast\_differentiation | 5.42E-20 |
| KEGG\_04514\_Cell\_adhesion\_molecules\_(CAMs) | 5.42E-20 |
| KEGG\_04612\_Antigen\_processing\_and\_presentation | 5.42E-20 |
| KEGG\_04620\_Toll-like\_receptor\_signaling\_pathway | 5.42E-20 |
| KEGG\_04630\_Jak-STAT\_signaling\_pathway | 5.42E-20 |
| KEGG\_04640\_Hematopoietic\_cell\_lineage | 5.42E-20 |
| KEGG\_04650\_Natural\_killer\_cell\_mediated\_cytotoxicity | 5.42E-20 |
| KEGG\_04660\_T\_cell\_receptor\_signaling\_pathway | 5.42E-20 |
| KEGG\_04662\_B\_cell\_receptor\_signaling\_pathway | 5.42E-20 |
| KEGG\_04668\_TNF\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 5.42E-20 |
| KEGG\_04068\_FoxO\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 4.11E-19 |
| KEGG\_04722\_Neurotrophin\_signaling\_pathway | 4.11E-19 |
| KEGG\_04917\_Prolactin\_signaling\_pathway | 1.56E-16 |
| KEGG\_04920\_Adipocytokine\_signaling\_pathway | 1.56E-16 |
| KEGG\_04015\_Rap1\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 4.78E-14 |
| KEGG\_04810\_Regulation\_of\_actin\_cytoskeleton | 4.78E-14 |
| KEGG\_04014\_Ras\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 7.65E-13 |
| KEGG\_04066\_HIF-1\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 7.65E-13 |
| KEGG\_04670\_Leukocyte\_transendothelial\_migration | 7.65E-13 |
| KEGG\_04071\_Sphingolipid\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 1.15E-11 |
| KEGG\_04510\_Focal\_adhesion | 1.15E-11 |
| KEGG\_04621\_NOD-like\_receptor\_signaling\_pathway | 1.15E-11 |
| KEGG\_04550\_Signaling\_pathways\_regulating\_pluripotency\_of\_stem\_cells | 1.61E-10 |
| KEGG\_04610\_Complement\_and\_coagulation\_cascades | 1.61E-10 |
| KEGG\_04622\_RIG-I-like\_receptor\_signaling\_pathway | 1.61E-10 |
| KEGG\_04370\_VEGF\_signaling\_pathway | 2.09E-09 |
| KEGG\_04611\_Platelet\_activation | 2.09E-09 |
| KEGG\_04672\_Intestinal\_immune\_network\_for\_IgA\_production | 1.58E-08 |
| KEGG\_04664\_Fc\_epsilon\_RI\_signaling\_pathway | 2.51E-08 |
| KEGG\_04115\_p53\_signaling\_pathway | 2.76E-07 |
| KEGG\_04360\_Axon\_guidance | 2.76E-07 |
| KEGG\_04919\_Thyroid\_hormone\_signaling\_pathway | 2.76E-07 |
| KEGG\_04921\_Oxytocin\_signaling\_pathway | 2.76E-07 |
| KEGG\_04012\_ErbB\_signaling\_pathway | 2.76E-06 |
| KEGG\_04072\_Phospholipase\_D\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 2.48E-05 |
| KEGG\_04310\_Wnt\_signaling\_pathway | 2.48E-05 |
| KEGG\_04350\_TGF-beta\_signaling\_pathway | 2.48E-05 |
| KEGG\_04392\_Hippo\_Signaling\_Pathway | 2.48E-05 |
| KEGG\_04520\_Adherens\_junction | 2.48E-05 |
| KEGG\_04750\_Inflammatory\_mediator\_regulation\_of\_TRP\_channels | 2.48E-05 |
| KEGG\_04623\_Cytosolic\_DNA-sensing\_pathway | 1.08E-04 |
| KEGG\_04110\_Cell\_cycle | 1.98E-04 |
| KEGG\_04512\_ECM-receptor\_interaction | 1.98E-04 |
| KEGG\_04912\_GnRH\_signaling\_pathway | 1.98E-04 |
| KEGG\_03050\_Proteasome | 1.39E-03 |
| KEGG\_04024\_cAMP\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 1.39E-03 |
| KEGG\_04211\_Longevity\_regulating\_pathway | 1.39E-03 |
| KEGG\_04540\_Gap\_junction | 1.39E-03 |
| KEGG\_04666\_Fc\_gamma\_R-mediated\_phagocytosis | 1.39E-03 |
| KEGG\_04910\_Insulin\_signaling\_pathway | 1.39E-03 |
| KEGG\_04915\_Estrogen\_signaling\_pathway | 1.39E-03 |
| KEGG\_00230\_Purine\_metabolism | 8.33E-03 |
| KEGG\_04022\_cGMP-PKG\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 8.33E-03 |
| KEGG\_04120\_Ubiquitin\_mediated\_proteolysis | 8.33E-03 |
| KEGG\_04140\_Regulation\_of\_autophagy | 8.33E-03 |
| KEGG\_04141\_Protein\_processing\_in\_endoplasmic\_reticulum | 8.33E-03 |
| KEGG\_04371\_Apelin\_signaling\_pathway\_-\_Homo\_sapiens\_(human) | 8.33E-03 |
| KEGG\_04916\_Melanogenesis | 8.33E-03 |
| KEGG\_04020\_Calcium\_signaling\_pathway | 4.17E-02 |
| KEGG\_04080\_Neuroactive\_ligand-receptor\_interaction | 4.17E-02 |
| KEGG\_04144\_Endocytosis | 4.17E-02 |
| KEGG\_04261\_Adrenergic\_signaling\_in\_cardiomyocytes | 4.17E-02 |
| KEGG\_04530\_Tight\_junction | 4.17E-02 |
| KEGG\_04723\_Retrograde\_endocannabinoid\_signaling | 4.17E-02 |
| KEGG\_04914\_Progesterone-mediated\_oocyte\_maturation | 4.17E-02 |