

**A list of 158 host factors related to influenza virus infection verified *in vivo*.**

<b>Gene symbol</b>	<b>Entrez ID</b>	<b>Direction of genes (lead to pathology or virus replication)</b>	<b>References</b>
<i>LCAD</i>	33	↓	[1]
<i>ADORA1</i>	134	↑	[2]
<i>ANXA1</i>	301	Indeterminable	[3,4]
<i>SAP</i>	325	Indeterminable	[5]
<i>BIRC3</i>	330	↓	[6]
<i>ARNTL</i>	406	↓	[7]
<i>AXL</i>	558	↓	[8]
<i>BCL2A1</i>	597	Inessential	[9]
<i>C3</i>	718	↓	[10]
<i>C4A</i>	720	↓	[10]
<i>C4B</i>	721	↓	[10]
<i>C5</i>	727	Inessential	[10]
<i>CAMP</i>	820	↓	[11]
<i>CASP1</i>	834	↓	[12]
<i>CASP6</i>	839	↓	[13]
<i>CD79A</i>	973	Inessential	[14]
<i>CCR2</i>	1231	↑	[15]
<i>CCR5</i>	1234	↓	[16]
<i>TPL2</i>	1326	↓	[17]
<i>CRP</i>	1401	↑	[18]
<i>CSF2</i>	1437	↓	[19]
<i>CSF2RA</i>	1438	↓	[20]
<i>CSF2RB</i>	1439	↓	[19]
<i>NOX2</i>	1536	↑	[21]
<i>SIP1</i>	1901	↓	[22]
<i>SERPINB1</i>	1992	↓	[23]
<i>FAP</i>	2191	Inessential	[24]
<i>FCER1G</i>	2207	↓	[25]
<i>FGF2</i>	2247	↓	[26]
<i>FHL2</i>	2274	↑	[27]
<i>FMRP</i>	2332	↑	[28]
<i>ADAP</i>	2533	↓	[29]
<i>GALNT3</i>	2591	↓	[30]
<i>CXCR3</i>	2833	↑	[31]
<i>CXCL2</i>	2920	↑	[32]
<i>IFI35</i>	3430	↑	[33]
<i>IFIT1</i>	3434	Inessential	[34]
<i>IFNAR1</i>	3454	↓	[35]
<i>IFNAR2</i>	3455	↓	[36]
<i>IFNG</i>	3458	Indeterminable	[37,38]
<i>IGHM</i>	3507	↓	[39]
<i>IL1A</i>	3552	↓	[40]
<i>IL1B</i>	3553	↓	[40]
<i>IL1R1</i>	3554	↓	[40]
<i>IL6</i>	3569	↓	[41]

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<i>IL7</i>	3574	Inessential	[42]
<i>IL10</i>	3586	↑	[43]
<i>IL12A</i>	3592	↓	[44]
<i>IL12B</i>	3593	↓	[44]
<i>IL15</i>	3600	↑	[45]
<i>IL17A</i>	3605	↑	[46]
<i>IL18</i>	3606	↓	[47]
<i>CXCL10</i>	3627	↑	[31]
<i>IRF3</i>	3661	↓	[48]
<i>IRF5</i>	3663	↑	[49]
<i>IRF7</i>	3665	↓	[48]
<i>ASK1</i>	4217	↓	[50]
<i>MLK3</i>	4296	Inessential	[51]
<i>CD200</i>	4345	↓	[52]
<i>MPO</i>	4353	↑	[53]
<i>MX1</i>	4599	↓	[54]
<i>MYD88</i>	4615	↓	[55]
<i>NFE2L2</i>	4780	↓	[56]
<i>NOS2</i>	4843	↑	[57]
<i>NRAS</i>	4893	↓	[58]
<i>P2XR7</i>	5027	↑	[59]
<i>SERPINE1</i>	5054	↓	[60]
<i>PCBP2</i>	5094	↑	[61]
<i>CXCL4</i>	5196	↓	[62]
<i>PIK3CG</i>	5294	↓	[63]
<i>PLG</i>	5340	↑	[64]
<i>PKR</i>	5610	↓	[65]
<i>PRNP</i>	5621	↓	[66]
<i>PTAFR</i>	5724	↑	[67]
<i>PTX3</i>	5806	↓	[68]
<i>RAG2</i>	5897	↓	[69]
<i>RNASEL</i>	6041	↓	[70]
<i>CCL2</i>	6347	↑	[71]
<i>SFTPD</i>	6441	↓	[72]
<i>ST6GAL1</i>	6480	Inessential	[73]
<i>SOD1</i>	6647	↓	[74]
<i>SOD2</i>	6648	↓	[74]
<i>SOD3</i>	6649	↓	[74]
<i>STAT1</i>	6772	↓	[75]
<i>STAT2</i>	6773	↓	[76]
<i>TGFB1</i>	7040	↓	[77]
<i>TGFB2</i>	7042	↓	[77]
<i>TGFB3</i>	7043	↓	[77]
<i>TLR2</i>	7097	Indeterminable	[78,79]
<i>TLR3</i>	7098	Indeterminable	[79,80]
<i>TLR4</i>	7099	Indeterminable	[78,79]
<i>TMPRSS2</i>	7113	↑	[81]

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<i>TNF</i>	7124	↓	[82]
<i>TNFAIP3</i>	7128	↑	[83]
<i>TP53</i>	7157	↓	[84]
<i>UBE1L</i>	7318	↓	[85]
<i>OASL</i>	8638	↓	[70,86]
<i>MARCO</i>	8685	↑	[87]
<i>TNFSF10</i>	8743	Indeterminable	[88,89]
<i>RIPK2</i>	8767	↓	[90]
<i>TNFRSF18</i>	8784	↓	[91]
<i>NCR1</i>	9437	↓	[92]
<i>AIM2</i>	9447	Indeterminable	[93,94]
<i>THEMIS2</i>	9473	Inessential	[95]
<i>PTGES</i>	9536	↑	[96]
<i>CXCL14</i>	9547	Inessential	[97]
<i>ISG15</i>	9636	↓	[85,98]
<i>SOCS5</i>	9655	↓	[99]
<i>MVP</i>	9961	↓	[100]
<i>ZMPSTE24</i>	10269	↓	[101]
<i>IFITM3</i>	10410	↓	[102]
<i>MINDIN</i>	10417	↓	[103]
<i>ATG7</i>	10533	↑	[104]
<i>RIPK3</i>	11035	↓	[105]
<i>ADAMTS5</i>	11096	↓	[106]
<i>IRAK3</i>	11213	↓	[107]
<i>ATG14</i>	22863	↑	[104]
<i>PAD4</i>	23569	Inessential	[108]
<i>DDX58</i>	23586	↓	[109]
<i>CLEC5A</i>	23601	↑	[110]
<i>TRIM29</i>	23650	↑	[111]
<i>IL17RA</i>	23765	↑	[46]
<i>NOX1</i>	27035	↑	[21]
<i>DMAC2L</i>	27109	↓	[10]
<i>ASC</i>	29108	↓	[112]
<i>DUOX2</i>	50506	↓	[113]
<i>NOX4</i>	50507	↑	[21]
<i>NOX3</i>	50508	↑	[21]
<i>IL21R</i>	50615	Inessential	[114]
<i>TLR7</i>	51284	↓	[79,115]
<i>DUOX1</i>	53905	↑	[21]
<i>ATG16L1</i>	55054	↓	[116]
<i>IL36G</i>	56300	↓	[117]
<i>MAVS</i>	57506	↓	[109]
<i>EPG5</i>	57724	↑	[104]
<i>NLRC4</i>	58484	Inessential	[112]
<i>ACE2</i>	59272	↓	[118]
<i>NOD2</i>	64127	Inessential	[119]
<i>CARD9</i>	64170	↑	[120]
<i>NOX5</i>	79400	↑	[21]

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<i>NLRX1</i>	79671	Inessential	[121]
<i>ZBP1</i>	81030	↓	[122]
<i>UNC93B1</i>	81622	Inessential	[123]
<i>TRIM56</i>	81844	Inessential	[124]
<i>NLRC5</i>	84166	Inessential	[125]
<i>RSAD2</i>	91543	Inessential	[126]
<i>NLRP3</i>	114548	↓	[12,112]
<i>SOCS4</i>	122809	↓	[99]
<i>CD200R</i>	131450	↓	[52]
<i>PAR1</i>	145624	↑	[127]
<i>TRIF</i>	148022	↑	[78]
<i>IFNLR1</i>	163702	↓	[128]
<i>MLKL</i>	197259	Inessential	[129]
<i>SPRED2</i>	200734	↓	[130]
<i>TREML4</i>	285852	↓	[131]
<i>SFTPA1</i>	653509	↓	[132]
<i>SFTPA2</i>	729238	↓	[132]
<i>IRG1</i>	730249	Inessential	[133]

The 28 genes in this list overlapped with the 784 DEGs derived from IAV-infected patients are highlighted.

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