

**Supplementary Table 7. The immune-related gene list in the ImmPort database.**

**Gene**

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AZGP1

B2M

CALR

CANX

CD1A

CD1B

CD1C

CD1D

CD1E

CD4

CD8A

CD8B

CD74

CREB1

CTSB

CTSE

CTSL

CTSS

FCER1G

FCGRT

PDIA3

HFE

HLA-A

HLA-B

HLA-C

HLA-DMA

HLA-DMB

HLA-DOA

HLA-DOB

HLA-DPA1

HLA-DPB1

HLA-DQA1

HLA-DQA2

HLA-DQB1

HLA-DRA

HLA-DRB1

HLA-DRB3

HLA-DRB4

HLA-DRB5

HLA-E

HLA-F

HLA-G

HLA-H

MR1

HSPA1A

HSPA1B

HSPA1L

HSPA2

HSPA4

HSPA5

HSPA6

HSPA8

HSP90AA1

HSP90AB1

ICAM1

IFNA1

IFNA2

IFNA4

IFNA5

IFNA6

IFNA7

IFNA8

IFNA10

IFNA13

IFNA14

IFNA16

IFNA17

IFNA21

IFNG

KIR2DL1

KIR2DL2

KIR2DL3

KIR2DL4

KIR2DS1

KIR2DS3

KIR2DS4

KIR2DS5

KIR3DL1

KIR3DL2

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KLRC2  
KLRC3  
KLRD1  
LTA  
CIITA  
MICA  
MICB  
NFYA  
NFYB  
NFYC  
LGMN  
PSMB8  
PSMC1  
PSMC2  
PSMC3  
PSMC4  
PSMC5  
PSMC6  
PSMD1  
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PSMD3  
PSMD4  
PSMD5  
PSMD7  
PSMD8  
PSMD10  
PSMD11  
PSMD13  
PSME1  
PSME1  
PSME2  
PSME2  
RELB  
RFX5  
RFXAP  
SLC10A2  
TAP1  
TAP2  
TAPBP  
THBS1

SEM1  
KLRC4  
AP3B1  
RFXANK  
PSMD6  
PSME3  
PSMD14  
CLEC4M  
IFI30  
PROCR  
ADRM1  
ECPAS  
TRPC4AP  
CD209  
UBXN1  
ERAP1  
TAPBPL  
KIR2DL5A  
ERAP2  
ULBP3  
ULBP2  
ULBP1  
KIR3DL3  
RAET1E  
RAET1L  
UBR1  
RAET1G  
PDIA2  
HAMP  
PI3  
CAMP  
DEFB4A  
PPBP  
REG3G  
CXCL14  
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SLPI  
CXCL8  
CXCL10  
CXCL9  
CXCL5

CXCL11  
CXCL6  
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CXCL12  
CXCL13  
CXCL2  
PF4  
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CXCL3  
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COLEC10  
BPI  
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S100A8  
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LCN6  
S100A12  
HTN3  
LCN8  
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CELA1  
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MMP12  
BPIFB6

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DEFB106B  
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DEFB107B  
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PGLYRP2  
S100A10  
S100A2  
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DEFB123  
DEFB105B  
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PGLYRP4  
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S100A1  
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TMSB4Y  
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AZU1  
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S100G

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ANOS1  
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IFNG  
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CTSL  
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MBL2  
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RBP1  
TLR2  
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PLAU  
IL1B  
PAEP  
HJV  
MUC5AC  
CTSS  
OBP2A  
PLTP  
MX1  
DDX58  
IFNL1



IRF3  
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LPA  
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SFTPA1  
NOX4  
LTF  
IFNB1  
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FABP7  
FABP5  
FABP3  
FABP2  
FABP4  
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BPIFB1  
OASL  
CRABP2  
CRABP1  
RBP7  
DUOX1  
OBP2B  
RBP2  
LCN15  
CETP  
FABP12  
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LCNL1  
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SPAG11A  
PI15  
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PMP2  
APOD  
ORM2  
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TNF  
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LRP1  
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SEMG1  
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CCL20  
SOCS1  
RNASEL  
IRF1  
IL15  
APOBEC3F  
PLAAT4  
CHIT1  
IFNA1  
CD40  
TLR7  
PPIA  
HFE  
ZYG

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ISG15  
DHX58  
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FCN2  
MUC4  
F2R  
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CCL5  
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CYLD  
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CST4  
CSRP1  
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F2RL1  
TKFC  
MSR1  
NFKBIZ  
LMBR1  
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MPO  
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ROBO3  
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DMBT1  
STING1  
SKIV2L  
SEMG2  
LTA  
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LALBA  
APOBEC3H  
TMPRSS6  
SPINK5  
MARCO  
BECN1  
TNFSF11  
KNG1  
CSK  
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JUND  
JAK1  
CREB1  
CLDN4  
CCL28  
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RN7SL1  
IRF7  
IREB2  
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LTB4R  
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TRIM27  
RELA  
IL7R  
IL1A  
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IFNAR2  
IFN1@  
SYTL1

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CD4  
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HRG  
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BACH2  
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RSAD2  
STAB2  
TBK1  
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PDCD1  
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PCSK1

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CCL27

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IL18  
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IL2  
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FGR  
MIF  
CRP  
JAK2  
IL1A  
PTK2  
PTGDR  
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HCK  
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GNAI1  
VDR  
OLR1  
GRK2  
TXK  
RNASE2  
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JUN  
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IKBKG  
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RELA  
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PLCG2  
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CTSG  
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FGF2  
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LECT2  
PF4

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SAA2  
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SLIT2  
TNC  
TYMP  
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XCL2  
C5AR1  
ACKR2  
CCR1  
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CCR3  
CCR4

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CCRL2  
CMKLR1  
CX3CR1  
CXCR3  
CXCR4  
CXCR5  
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CYSLTR1  
CYSLTR2  
ACKR1  
EDNRA  
EDNRB  
FPR1  
FPR2  
FPR2  
GPR17  
GPR32  
GPR33  
PTGDR2  
C5AR2  
CXCR1  
CXCR2  
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LTB4R2  
PLAUR  
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PLXNA2  
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PLXND1

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RXFP3  
XCR1  
ADIPOQ  
ADM  
ADM2  
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AMH  
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ANGPTL7  
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MANF  
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ARTN  
AVP  
AZU1  
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MYDGF  
C3  
C5  
CALCA  
CALCB

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CKLF  
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CLEC11A  
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CMTM6  
CMTM7  
CMTM8  
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CSF3  
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