|  |
| --- |
| Table S1 The comprehensive list of 2498 immune-related genes obtained from the Immport database. |
| Immport gene |
| AZGP1 |
| B2M |
| CALR |
| CANX |
| CD1A |
| CD1B |
| CD1C |
| CD1D |
| CD1E |
| CD4 |
| CD8A |
| CD8B |
| CD74 |
| CREB1 |
| CTSB |
| CTSE |
| CTSL1 |
| 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 |
| KLRC1 |
| KLRC2 |
| KLRC3 |
| KLRD1 |
| LTA |
| CIITA |
| MICA |
| MICB |
| NFYA |
| NFYB |
| NFYC |
| LGMN |
| PSMB8 |
| PSMC1 |
| PSMC2 |
| PSMC3 |
| PSMC4 |
| PSMC5 |
| PSMC6 |
| PSMD1 |
| PSMD2 |
| PSMD3 |
| PSMD4 |
| PSMD5 |
| PSMD7 |
| PSMD8 |
| PSMD10 |
| PSMD11 |
| PSMD13 |
| PSME1 |
| PSME1 |
| PSME2 |
| PSME2 |
| RELB |
| RFX5 |
| RFXAP |
| SLC10A2 |
| TAP1 |
| TAP2 |
| TAPBP |
| THBS1 |
| SHFM1 |
| KLRC4 |
| AP3B1 |
| RFXANK |
| PSMD6 |
| PSME3 |
| PSMD14 |
| CLEC4M |
| IFI30 |
| PROCR |
| ADRM1 |
| KIAA0368 |
| TRPC4AP |
| CD209 |
| UBXN1 |
| ERAP1 |
| TAPBPL |
| KIR2DL5A |
| ERAP2 |
| ULBP3 |
| ULBP2 |
| ULBP1 |
| KIR3DL3 |
| RAET1E |
| RAET1L |
| UBR1 |
| RAET1G |
| PDIA2 |
| HAMP |
| PI3 |
| CAMP |
| DEFB4 |
| PPBP |
| REG3G |
| CXCL14 |
| CXCL16 |
| SLPI |
| IL8 |
| CXCL10 |
| CXCL9 |
| CXCL5 |
| CXCL11 |
| CXCL6 |
| CXCL1 |
| CXCL12 |
| CXCL13 |
| CXCL2 |
| PF4 |
| XCL1 |
| CXCL3 |
| DEFB103A |
| CCL13 |
| CCL1 |
| DEFB1 |
| CCL8 |
| ELANE |
| DEFB103B |
| DEFA3 |
| DEFA1 |
| TMSB10 |
| DEFA6 |
| DEFA5 |
| DEFA4 |
| LCN2 |
| LCN1 |
| COLEC10 |
| BPI |
| S100A9 |
| S100A8 |
| DCD |
| LCN6 |
| S100A12 |
| HTN3 |
| LCN8 |
| LOC728358 |
| CCR10 |
| CELA1 |
| DEFB106A |
| PENK |
| BPIL2 |
| MMP12 |
| BPIL3 |
| LEAP2 |
| SFTPD |
| LCN9 |
| BPIL1 |
| PTGDS |
| TMSB4X |
| PGLYRP1 |
| ZC3HAV1 |
| TMSB15A |
| S100B |
| S100A13 |
| S100A6 |
| DEFB119 |
| DEFB107A |
| DEFB105A |
| SERPIND1 |
| DEFB129 |
| DEFB127 |
| S100P |
| S100A7 |
| DEFB104A |
| DEFB126 |
| DEFB106B |
| DEFB104B |
| DEFB107B |
| PGLYRP3 |
| PGLYRP2 |
| S100A10 |
| S100A2 |
| DEFB125 |
| DEFB123 |
| DEFB105B |
| DEFB132 |
| C20orf185 |
| LCN12 |
| PGLYRP4 |
| S100A11 |
| S100A5 |
| S100A3 |
| S100A1 |
| DEFB128 |
| DEFB108B |
| HTN1 |
| LMBR1L |
| S100A7A |
| DEFB118 |
| COLEC12 |
| TMSB4Y |
| DEFB131 |
| DEFB134 |
| DEFB130 |
| DEFB124 |
| DEFB121 |
| DEFB116 |
| DEFB115 |
| DEFB114 |
| DEFB113 |
| DEFB112 |
| DEFB110 |
| TMSB15B |
| DEFB133 |
| S100Z |
| MAVS |
| TMSL3 |
| S100A14 |
| LCN10 |
| S100A16 |
| DEFB137 |
| DEFB136 |
| DEFB117 |
| DEFB111 |
| ZC3HAV1L |
| S100A7L2 |
| LOC731414 |
| LOC730963 |
| COLEC2 |
| DEFB4P |
| C20orf186 |
| IFNAR1 |
| AZU1 |
| LOC729523 |
| LOC100130154 |
| LOC100134379 |
| LOC100134289 |
| LOC100129216 |
| DEFA1A3 |
| LOC100131433 |
| LCN1L1 |
| S100G |
| LOC648637 |
| LOC100130969 |
| LOC100133267 |
| LOC100133128 |
| LOC100128174 |
| TCHHL1 |
| TINAGL1 |
| IFNGR1 |
| SLC22A17 |
| WFIKKN1 |
| WFDC2 |
| IL6 |
| UMODL1 |
| TGFB1 |
| PF4V1 |
| MMP9 |
| KAL1 |
| TLR4 |
| IFNG |
| SPAG11B |
| A2M |
| CTSL1 |
| NFKB1 |
| APOBEC3G |
| FABP6 |
| NOD2 |
| MBL2 |
| SFTPA1B |
| RBP1 |
| TLR2 |
| SLC40A1 |
| PLAU |
| IL1B |
| PAEP |
| HFE2 |
| MUC5AC |
| CTSS |
| OBP2A |
| PLTP |
| MX1 |
| DDX58 |
| IL29 |
| IRF3 |
| SFTPA2 |
| SFTPA2B |
| LPA |
| LBP |
| RBP4 |
| SFTPA1 |
| NOX4 |
| LTF |
| IFNB1 |
| RBP5 |
| FABP7 |
| FABP5 |
| FABP3 |
| FABP2 |
| FABP4 |
| R3HDML |
| C20orf71 |
| C20orf114 |
| OASL |
| CRABP2 |
| CRABP1 |
| RBP7 |
| DUOX1 |
| OBP2B |
| RBP2 |
| LCN15 |
| CETP |
| FABP12 |
| FABP9 |
| PLUNC |
| LCNL1 |
| C8G |
| SPAG11A |
| PI15 |
| NOX1 |
| PMP2 |
| APOD |
| ORM2 |
| ORM1 |
| TNF |
| CTSG |
| PRTN3 |
| MAPK1 |
| PML |
| AEN |
| CYBB |
| C20orf70 |
| ISG20 |
| BCL3 |
| ISG20L2 |
| NOX5 |
| NOX3 |
| DUOX2 |
| TLR3 |
| TFRC |
| IFIH1 |
| LRP1 |
| TRIM5 |
| IDO1 |
| GDF15 |
| NEDD4 |
| ADIPOQ |
| STAT3 |
| STAT1 |
| IL28A |
| SOCS3 |
| SEMG1 |
| TNFSF10 |
| CCL20 |
| SOCS1 |
| RNASEL |
| IRF1 |
| IL15 |
| APOBEC3F |
| RARRES3 |
| CHIT1 |
| IFNA1 |
| CD40 |
| TLR7 |
| PPIA |
| HFE |
| ZYX |
| NLRX1 |
| PGC |
| VEGFA |
| IKBKE |
| ISG15 |
| DHX58 |
| TNFAIP3 |
| TFR2 |
| FCN2 |
| MUC4 |
| F2R |
| ELN |
| IL27 |
| MAPT |
| LYZ |
| CCL5 |
| LEP |
| CYLD |
| KLKB1 |
| CST4 |
| CSRP1 |
| MAPK14 |
| JUN |
| ITGAV |
| IRF5 |
| CCR6 |
| IL12B |
| TLR8 |
| GNLY |
| CD81 |
| EIF2AK2 |
| APOM |
| CACYBP |
| NOD1 |
| MAPK8 |
| MAPK3 |
| BST2 |
| BPHL |
| PLA2G2A |
| GRN |
| NEWENTRY |
| PDGFRA |
| GNAI1 |
| WNT5A |
| FURIN |
| ADAR |
| TYK2 |
| NOS2 |
| TRAF3 |
| TPT1 |
| TPM2 |
| NEO1 |
| AHNAK |
| TLR1 |
| TK2 |
| PRDX2 |
| MX2 |
| FGF2 |
| FGA |
| TCF7L2 |
| F2RL1 |
| DAK |
| MSR1 |
| NFKBIZ |
| LMBR1 |
| SPINLW1 |
| SRC |
| MPO |
| ELAVL1 |
| ROBO3 |
| SP1 |
| SOD1 |
| PDF |
| DLL4 |
| ECD |
| SLC11A1 |
| DMBT1 |
| TMEM173 |
| SKIV2L |
| SEMG2 |
| LTA |
| DES |
| DCK |
| DAXX |
| TNFRSF10A |
| TNFRSF10B |
| EED |
| CCL4 |
| LIMS1 |
| LALBA |
| APOBEC3H |
| TMPRSS6 |
| SPINK5 |
| MARCO |
| BECN1 |
| TNFSF11 |
| KNG1 |
| CSK |
| KLRK1 |
| KCNH2 |
| JUND |
| JAK1 |
| CREB1 |
| CLDN4 |
| CCL28 |
| RNASE3 |
| RN7SL1 |
| IRF7 |
| IREB2 |
| ILK |
| IL18 |
| IL17A |
| LTB4R |
| APOBEC3A |
| MASP2 |
| TRIM27 |
| RELA |
| IL7R |
| IL1A |
| PTX3 |
| IFNAR2 |
| IFN1@ |
| SYTL1 |
| APOBEC3C |
| DDX17 |
| PTGS2 |
| HTR1A |
| 7-Sep |
| CD40LG |
| CD14 |
| CD8A |
| CD4 |
| MASP1 |
| PROC |
| MAP2K2 |
| MAP2K1 |
| HRG |
| NDRG1 |
| IRF9 |
| TRIM22 |
| LANCL1 |
| PPP4C |
| HMOX1 |
| HMGB1 |
| HLA-B |
| RNASE7 |
| ABCC4 |
| HGF |
| HDAC1 |
| IL28RA |
| PLSCR1 |
| B2M |
| BACH2 |
| TANK |
| PIK3CG |
| ARRB1 |
| RSAD2 |
| STAB2 |
| TBK1 |
| PDYN |
| PDGFRB |
| PDCD1 |
| PCSK2 |
| PCSK1 |
| ARG2 |
| AQP9 |
| FASLG |
| APOH |
| BIRC5 |
| ANXA6 |
| IL22 |
| VTN |
| VIM |
| VCAM1 |
| PRDX1 |
| GFAP |
| GBP2 |
| ALB |
| SLC29A3 |
| OAS1 |
| AGER |
| UNC93B1 |
| TNFSF4 |
| NOS1 |
| ACTG1 |
| ACTA1 |
| ACO1 |
| SERPINA3 |
| IL8RA |
| CCL15 |
| CCL14 |
| CCL4 |
| CCL16 |
| CCL19 |
| CCL13 |
| CCL18 |
| CCL17 |
| CCL26 |
| CCL22 |
| CCR3 |
| CCL28 |
| CCL4L2 |
| CCBP2 |
| CCR7 |
| CCL27 |
| CCR8 |
| CCRL1 |
| CCR10 |
| CCL2 |
| CCL21 |
| CCL7 |
| CCL5 |
| CCL3 |
| CCL20 |
| CCL11 |
| CCR5 |
| CCL23 |
| CCL25 |
| CCL1 |
| CCL3L3 |
| CCL4L1 |
| CXCL12 |
| XCL1 |
| CCL8 |
| CCL3L1 |
| CCR1 |
| CCL24 |
| XCL2 |
| CXCL1 |
| CXCL10 |
| CXCR4 |
| CXCL2 |
| CXCR6 |
| CCR4 |
| CXCL11 |
| FAM19A5 |
| FAM19A3 |
| FAM19A4 |
| FAM19A1 |
| FAM19A2 |
| CCL14-CCL15 |
| IL6 |
| TNF |
| IL1B |
| IL18 |
| PTK2B |
| VEGFA |
| IL4 |
| CDH1 |
| CD40 |
| DEFB103A |
| F2RL1 |
| MMP9 |
| LTBP1 |
| DEFB4 |
| TNFSF10 |
| IL13 |
| IL10 |
| IL2 |
| PPARG |
| FGR |
| MIF |
| CRP |
| JAK2 |
| IL1A |
| PTK2 |
| PTGDR |
| CD86 |
| HCK |
| ARRB1 |
| GNAI1 |
| VDR |
| OLR1 |
| ADRBK1 |
| TXK |
| RNASE2 |
| CD79A |
| CD79B |
| LYN |
| SYK |
| BTK |
| BLNK |
| VAV3 |
| VAV1 |
| VAV2 |
| RAC1 |
| RAC2 |
| RAC3 |
| PPP3CA |
| PPP3CB |
| PPP3CC |
| CHP |
| PPP3R1 |
| PPP3R2 |
| CHP2 |
| NFAT5 |
| NFATC1 |
| NFATC2 |
| NFATC3 |
| NFATC4 |
| HRAS |
| KRAS |
| NRAS |
| FOS |
| JUN |
| CARD11 |
| BCL10 |
| MALT1 |
| CHUK |
| IKBKB |
| IKBKG |
| NFKB1 |
| RELA |
| NFKBIA |
| NFKBIB |
| NFKBIE |
| CD81 |
| CD19 |
| CR2 |
| PIK3R5 |
| PIK3R1 |
| PIK3R2 |
| PIK3R3 |
| PIK3CA |
| PIK3CB |
| PIK3CD |
| PIK3CG |
| AKT3 |
| AKT1 |
| AKT2 |
| GSK3B |
| INPP5D |
| CD22 |
| CD72 |
| PTPN6 |
| LILRB3 |
| FCGR2B |
| RASGRP3 |
| PLCG2 |
| PRKCB |
| IFITM1 |
| IGH@ |
| IGHA1 |
| IGHA2 |
| IGHD |
| IGHD@ |
| IGHD1-1 |
| IGHD1-14 |
| IGHD1-20 |
| IGHD1-26 |
| IGHD1-7 |
| IGHD2-15 |
| IGHD2-2 |
| IGHD2-21 |
| IGHD2-8 |
| IGHD3-10 |
| IGHD3-16 |
| IGHD3-22 |
| IGHD3-3 |
| IGHD3-9 |
| IGHD4-11 |
| IGHD4-17 |
| IGHD4-23 |
| IGHD4-4 |
| IGHD5-12 |
| IGHD5-18 |
| IGHD5-24 |
| IGHD5-5 |
| IGHD6-13 |
| IGHD6-19 |
| IGHD6-25 |
| IGHD6-6 |
| IGHD7-27 |
| IGHE |
| IGHG1 |
| IGHG2 |
| IGHG3 |
| IGHG4 |
| IGHJ@ |
| IGHJ1 |
| IGHJ2 |
| IGHJ3 |
| IGHJ4 |
| IGHJ5 |
| IGHJ6 |
| IGHM |
| IGHV@ |
| IGHV1-18 |
| IGHV1-2 |
| IGHV1-24 |
| IGHV1-3 |
| IGHV1-45 |
| IGHV1-46 |
| IGHV1-58 |
| IGHV1-69 |
| IGHV1-8 |
| IGHV1-C |
| IGHV1-F |
| IGHV2-26 |
| IGHV2-5 |
| IGHV2-70 |
| IGHV3-11 |
| IGHV3-13 |
| IGHV3-15 |
| IGHV3-16 |
| IGHV3-20 |
| IGHV3-21 |
| IGHV3-23 |
| IGHV3-30 |
| IGHV3-30-3 |
| IGHV3-30-5 |
| IGHV3-33 |
| IGHV3-35 |
| IGHV3-38 |
| IGHV3-43 |
| IGHV3-48 |
| IGHV3-49 |
| IGHV3-53 |
| IGHV3-64 |
| IGHV3-66 |
| IGHV3-7 |
| IGHV3-72 |
| IGHV3-73 |
| IGHV3-74 |
| IGHV3-9 |
| IGHV3-D |
| IGHV3-H |
| IGHV4-28 |
| IGHV4-30-1 |
| IGHV4-30-2 |
| IGHV4-30-4 |
| IGHV4-31 |
| IGHV4-34 |
| IGHV4-39 |
| IGHV4-4 |
| IGHV4-59 |
| IGHV4-61 |
| IGHV4-B |
| IGHV5-51 |
| IGHV5-A |
| IGHV6-1 |
| IGHV7-4-1 |
| IGHV7-81 |
| IGK@ |
| IGKC |
| IGKDEL |
| IGKJ@ |
| IGKJ1 |
| IGKJ2 |
| IGKJ3 |
| IGKJ4 |
| IGKJ5 |
| IGKV@ |
| IGKV1-12 |
| IGKV1-13 |
| IGKV1-16 |
| IGKV1-17 |
| IGKV1-27 |
| IGKV1-33 |
| IGKV1-37 |
| IGKV1-39 |
| IGKV1-5 |
| IGKV1-6 |
| IGKV1-8 |
| IGKV1-9 |
| IGKV1D-12 |
| IGKV1D-13 |
| IGKV1D-16 |
| IGKV1D-17 |
| IGKV1D-33 |
| IGKV1D-37 |
| IGKV1D-39 |
| IGKV1D-42 |
| IGKV1D-43 |
| IGKV1D-8 |
| IGKV2-24 |
| IGKV2-28 |
| IGKV2-30 |
| IGKV2-40 |
| IGKV2D-24 |
| IGKV2D-28 |
| IGKV2D-29 |
| IGKV2D-30 |
| IGKV2D-40 |
| IGKV3-11 |
| IGKV3-15 |
| IGKV3-20 |
| IGKV3-7 |
| IGKV3D-11 |
| IGKV3D-15 |
| IGKV3D-20 |
| IGKV3D-7 |
| IGKV4-1 |
| IGKV5-2 |
| IGKV6-21 |
| IGKV6D-21 |
| IGKV6D-41 |
| IGL@ |
| IGLC@ |
| IGLC1 |
| IGLC2 |
| IGLC3 |
| IGLC6 |
| IGLC7 |
| IGLJ@ |
| IGLJ1 |
| IGLJ2 |
| IGLJ3 |
| IGLJ4 |
| IGLJ5 |
| IGLJ6 |
| IGLJ7 |
| IGLV@ |
| IGLV1-36 |
| IGLV1-40 |
| IGLV1-44 |
| IGLV1-47 |
| IGLV1-50 |
| IGLV1-51 |
| IGLV10-54 |
| IGLV11-55 |
| IGLV2-11 |
| IGLV2-14 |
| IGLV2-18 |
| IGLV2-23 |
| IGLV2-33 |
| IGLV2-8 |
| IGLV3-1 |
| IGLV3-10 |
| IGLV3-12 |
| IGLV3-16 |
| IGLV3-19 |
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| IGLV3-25 |
| IGLV3-27 |
| IGLV3-32 |
| IGLV3-9 |
| IGLV4-3 |
| IGLV4-60 |
| IGLV4-69 |
| IGLV5-37 |
| IGLV5-39 |
| IGLV5-45 |
| IGLV5-48 |
| IGLV5-52 |
| IGLV6-57 |
| IGLV7-43 |
| IGLV7-46 |
| IGLV8-61 |
| IGLV9-49 |
| C3 |
| C5 |
| CAMP |
| CCL1 |
| CCL11 |
| CCL13 |
| CCL14 |
| CCL14-CCL15 |
| CCL15 |
| CCL16 |
| CCL17 |
| CCL18 |
| CCL19 |
| CCL2 |
| CCL20 |
| CCL21 |
| CCL22 |
| CCL23 |
| CCL24 |
| CCL25 |
| CCL26 |
| CCL27 |
| CCL28 |
| CCL3 |
| CCL3L1 |
| CCL3L2 |
| CCL3L3 |
| CCL4 |
| CCL4L1 |
| CCL4L2 |
| CCL5 |
| CCL7 |
| CCL8 |
| CKLF |
| CMA1 |
| CTSG |
| CX3CL1 |
| CXCL1 |
| CXCL10 |
| CXCL11 |
| CXCL12 |
| CXCL13 |
| CXCL14 |
| CXCL16 |
| CXCL17 |
| CXCL2 |
| CXCL3 |
| CXCL5 |
| CXCL6 |
| CXCL9 |
| CYR61 |
| DEFA1 |
| DEFA3 |
| DEFA5 |
| DEFB1 |
| DEFB103A |
| DEFB104A |
| DEFB4 |
| EDN1 |
| EDN2 |
| EDN3 |
| FGF10 |
| FGF2 |
| HTN3 |
| IL8 |
| LECT2 |
| PF4 |
| PF4V1 |
| PLAU |
| PPBP |
| PPBPL1 |
| PROK2 |
| RNASE2 |
| SAA1 |
| SAA2 |
| SBDS |
| SEMA3A |
| SEMA3B |
| SEMA3C |
| SEMA3D |
| SEMA3E |
| SEMA3F |
| SEMA3G |
| SEMA4A |
| SEMA4B |
| SEMA4C |
| SEMA4D |
| SEMA4F |
| SEMA4G |
| SEMA5A |
| SEMA5B |
| SEMA6A |
| SEMA6B |
| SEMA6C |
| SEMA6D |
| SEMA7A |
| SLIT1 |
| SLIT2 |
| TNC |
| TYMP |
| XCL1 |
| XCL2 |
| C5AR1 |
| CCBP2 |
| CCR1 |
| CCR10 |
| CCR3 |
| CCR4 |
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