Supplementary Table S2 - Gene Targets

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| A Neutrophil Gene Targets |
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| **Gene name** | **Gene Product** |
| AKT1 | V-akt murine thymoma viral oncogene homolog 1 (AKT1) |
| AQP9 | Aquaporin 9 |
| B2M | MHCI beta microglobulin |
| BCLAF1 | BCL2-associated transcription factor 1 |
| BIN1 | Bridging integrator 1 |
| BTK | Bruton agammaglobulinemia tyrosine kinase |
| C5AR1 | Complement component 5a receptor 1 |
| CASP8 | Caspase 8 |
| CASP9 | Caspase 9 |
| CD14 | CD14 |
| CD4  | CD4 |
| CD46 | CD46 |
| CD83 | CD83 |
| CDC42 | CDC42 |
| CSF2RA | CD116 |
| CTNNB1 | Beta-catenin |
| DDX58 | DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 |
| DICER1 | Dicer 1, ribonuclease type III |
| DYRK1A | Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A |
| EIF2AK2 | Eukaryotic translation initiation factor 2-alpha kinase, PKR |
| EIF4B | Eukaryotic translation initiation factor 4B |
| EIF4G1 | Eukaryotic translation initiation factor 4 gamma 1 |
| ELK1 | ETS domain-containing protein Elk-1 |
| FBXL5 | F-box and leucine-rich repeat protein 5 |
| FCGR1A | CD64 |
| FCGR2A | CD32 |
| FCGR3B | CD16b |
| FOS | c-Fos (FBJ murine osteosarcoma viral oncogene homolog) |
| GRB2 | Growth factor receptor-bound protein 2 |
| GSK3B | Glycogen synthase kinase 3 beta |
| HERC5 | Hect domain and RLD 5 |
| HERPUD2 | Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 2 protein  |
| HIF1A | Hypoxia-inducible factor 1-alpha |
| HLA-A | MHCI alpha chain |
| HLA-DRA | HLA class II histocompatibility antigen, DR alpha chain |
| HNRPK | Heterogeneous nuclear ribonucleoprotein K |
| HSD17B11 | Hydroxysteroid (17-beta) dehydrogenase 11 |
| HSPB1 | Heat shock protein beta-1, Heat shock protein 27 (Hsp27)  |
| IFIT1B | Interferon-induced protein with tetratricopeptide repeats 1B |
| IFIT2 | Interferon-induced protein with tetratricopeptide repeats 2 |
| IFNGR1 | Interferon gamma receptor 1 |
| IL17RD | Interleukin 17 receptor D |
| IL1B | Interleukin 1, beta |
| IL2RB | Interleukin 2 receptor, beta |
| IL6R | IL-6 receptor |
| IL8 | IL-8 (CXCL8) |
| IL8RA | IL-8 receptor, alpha (CXCR1) |
| ILK | Integrin-linked kinase |
| IMP3 | U3 small nucleolar ribonucleoprotein protein IMP3 |
| IRAK1 | Interleukin-1 receptor-associated kinase 1 |
| IRF1 | Interferon regulatory factor 1 |
| CD44 | CD44 |
| ITGAL | CD11a (Integrin alpha L chain0 |
| ITGAM | Integrin Alpha-M (CD11b) |
| ITGB2 | CD18 ( Integrin, beta 2) |
| MAPK3 | Mitogen-activated protein kinase 3 |
| MBOAT7 | Membrane bound O-acyltransferase domain containing 7 |
| MCL1 | Myeloid cell leukemia sequence 1 (BCL2-related) |
| MYD88 | Myeloid differentiation primary response gene (88) |
| NDEL1 | NudE nuclear distribution gene E homolog (A. nidulans)-like 1 |
| NFKB1 | NF Kappa B |
| NUMB | NUMB homolog |
| OASL | 2'-5'-oligoadenylate synthetase-like |
| OCIAD1 | OCIA domain containing 1 |
| OR2W3 | Olfactory receptor, family 2, subfamily W, member 3 |
| PAK1 | Serine/threonine-protein kinase PAK 1 |
| PDPK1 | 3-phosphoinositide dependent protein kinase-1 |
| PHC2 | Polyhomeotic homolog 2 |
| CREB | cAMP response element-binding protein |
| PIK3CG | Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma isoform |
| PTEN | Phosphatase and tensin homolog |
| PTPN11 | Tyrosine-protein phosphatase non-receptor type 11  |
| RAC1 | Ras-related C3 botulinum toxin substrate 1 |
| RHEB | GTP-binding protein Rheb (Ras homolog enriched in brain) |
| RHOA | Ras homolog gene family, member A |
| SAE1 | SUMO1 activating enzyme subunit 1 |
| SAMD9L | Sterile alpha motif domain containing 9-like |
| SELENBP1 | Selenium binding protein 1 |
| SELL | CD62 ligand |
| SERINC3 | Serine incorporator 3 |
| SHC1 | SHC-transforming protein 1 |
| SP3 | Sp3 transcription factor |
| SRF | Srf serum response factor  |
| STK17B | Serine/threonine kinase 17b |
| STX3 | Syntaxin 3 |
| STXBP3 | Syntaxin binding protein 3 |
| TLR4 | Toll-like receptor 4 |
| TLR6 | Toll-like receptor 6 |
| TLR8 | Toll-like receptor 8 |
| TRAF6 | TNF receptor-associated factor 6 |
| TRIM33 | Tripartite motif containing 33 |
| TSC1 | Tuberous sclerosis protein 1 |
| TSEN34 | tRNA splicing endonuclease 34 homolog |
| WASPIP | WAS/WASL interacting protein family, member 1 |
| ZDHHC18 | Zinc finger, DHHC-type containing 18 |
| ZFAND5 | Zinc finger, AN1-type domain 5 |
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| B T Lymphocyte Gene Targets |
|  |  |
| **Gene name** | **Gene Product** |
| AKT3 | Akt3 |
| ATP2B1 | PMCA |
| B3GAT1 | CD57 |
| [BCL2](http://www.proteinatlas.org/ENSG00000171791) | Bcl-2 |
| CAMK4 | Calcium/calmodulin-dependent protein kinase type IV |
| CCR5 | C-C chemokine receptor type 5 |
| CCR7 | C-C chemokine receptor type 7 |
| CD27 | CD27 |
| CD28 | CD28 |
| CD3D | CD3 delta |
| CD4  | CD4 |
| CD40LG | CD40 ligand |
| CD8B | CD8, beta |
| CDKN2A  | Cyclin-dependent kinase inhibitor 2A, p16ink4A |
| CREB1 | CAMP responsive element binding protein 1 |
| CTLA4 | CD152 |
| CXCR3 | Chemokine (C-X-C motif) receptor 3 |
| CXCR4 | Chemokine (C-X-C motif) receptor 4, CXCR4 |
| CXCR6 | Chemokine (C-X-C motif) receptor 6 |
| CXCR7 | Chemokine (C-X-C motif) receptor 7 |
| DUOX1 | Dual oxidase 1 |
| DUSP2 | Dual specificity protein phosphatase 2 |
| DUSP3 | Dual specificity protein phosphatase 3 |
| FAS  | CD95 |
| FASLG | Fas ligand |
| FCAR | CD89 |
| FYN | Proto-oncogene tyrosine-protein kinase Fyn |
| GLRX2 | Glutaredoxin 2 |
| GZMB | Granzyme B |
| HIF1A | Hypoxia-inducible factor 1-alpha, HIF-1alpha |
| IFNGR1 | Interferon gamma receptor, IFN gamma receptor |
| IL10  | Interleukin-10, IL-10 |
| IL10RA | Interleukin-10 receptor, alpha, CDw210 |
| IL10RB | Interleukin-10 receptor, beta |
| IL12RB2 | Interleukin 12 receptor, IL-12 receptor |
| IL17A | Interleukin 17, IL-17 |
| IL18R1 | Interleukin 18 receptor 1, IL-18 receptor 1 |
| [IL1R1](http://www.proteinatlas.org/ENSG00000115594) | CD121a (IL-1RI and IL-1RII) |
| IL2  | Interleukin-2, IL-2 |
| IL21R | Interleukin-21 receptor, IL-21 receptor |
| IL2RA | CD25 |
| IL2RB | Interleukin-2 receptor, beta, Interleukin-15 receptor |
| IL2RG | Interleukin-2 receptor, gamma, CD132 |
| IL4R | Interleukin-4, IL-4 |
| IL6 | Interleukin 6, IL-6 |
| IL7R | Interleukin-7 receptor, alpha, IL-7 receptor |
| ITK | IL2-inducible T-cell kinase |
| JAK1 | Janus kinase 1 |
| JAK3 | Janus kinase 3 |
| KLRC1 | Killer cell lectin-like receptor subfamily C, member 1 |
| LAG3 | CD223 |
| LAT | Linker for Activation of T cells, LAT |
| LCK | Lymphocyte-specific protein tyrosine kinase |
| LTA, TNFB | Tumor Necrosis Factor beta, TNF beta |
| MAP3K5 | Apoptosis signal-regulating kinase 1 |
| MAPK1 | Mitogen-activated protein kinase 1, ERK2 |
| MAPK9 | Mitogen-activated protein kinase 9, JNK2 |
| MPO | Myeloperoxidase |
| [NFE2L2](http://www.proteinatlas.org/ENSG00000116044) | Nuclear factor (erythroid-derived 2)-like 2 |
| NPAT | CD245 |
| NRAS | N-Ras |
| ORAI1 | Calcium release-activated calcium channel protein 1 |
| PIK3CD | PI3K, catalytic, delta polypeptide |
| PLCG1 | PLC gamma |
| Prf1 | Perforin 1 |
| PRKCQ | PKC theta |
| PTEN | Phosphatase and tensin homolog, PTEN |
| PTPN1 | Protein-tyrosine phosphatase 1B, PTP1B |
| PTPN11 | Tyrosine-protein phosphatase non-receptor type 11, SHP-2 |
| PTPN22 | Protein tyrosine phosphatase, non-receptor type 22, LYP |
| PTPN6 | Src homology region 2 domain-containing phosphatase-1, SHP1 |
| RAC2 | Ras-related C3 botulinum toxin substrate 2, Rac2 |
| RPP38 | p38 |
| SH2D1A | SH2 domain-containing protein 1A, sphingolipid activator protein-1, SAP |
| SOD2 | Superoxide dismutase , SOD2 |
| SOS2 | SOS-2 |
| STAT3 | Signal transducer and activator of transcription 3, STAT3 |
| STAT5a | Signal transducer and activator of transcription 5A, STAT5a |
| STAT5b | Signal transducer and activator of transcription 5B, STAT5b |
| STAT6 | Signal transducer and activator of transcription 6, STAT6 |
| STIM1 | Stromal interaction molecule , STIM1 |
| TCRG | Tcell Receptor, gamma, TCR gamma |
| TERF1 | Telomeric repeat-binding factor 1, TERF1 |
| TGFB1 | TGF beta 1 |
| TGFBR2 | TGF beta receptor 2 |
| TLR4 | Toll-like receptor 4, TLR4 |
| TLR5 | Toll-like receptor 5, TLR5 |
| TLR7 | Toll-like receptor 7,TLR7 |
| TNF, TNFA | Tumor Necrosis Factor alpha, TNF alpha |
| TNFRSF8 | CD30 |
| [TNFRSF9](http://www.proteinatlas.org/ENSG00000049249) | 4-1BB, CD137 |
| TRAF6 | TNF receptor associated factor 6, TRAF6 |
| TXN2 | Thioredoxin 2, Trx2 |
| VAV1 | VAV1 |
| WNT3 | WNT3 |
| ZAP70 | Zeta-chain-associated protein kinase 70, Zap70 |