

Supplementary Table 1. B & T cell activation specific gene reference.

Symbol	Unigene	Reference sequence	Description	Gene Name
ADA	Hs,654536	NM_000022	Adenosine deaminase	-
AICDA	Hs,149342	NM_020661	Activation-induced cytidine deaminase	AID/ARP2/CDA2/HEL-S-284/HIGM2
APC	Hs,158932	NM_000038	Adenomatous polyposis coli	BTPS2/DP2/DP2,5/DP3/GS/PPP1R46
BCL2	Hs,150749	NM_000633	B-cell CLL/lymphoma 2	Bcl-2/PPP1R50
BLM	Hs,725208	NM_000057	Bloom syndrome, RecQ helicase-like	BS/RECQ2/RECQL2/RECQL3
BLNK	Hs,665244	NM_013314	B-cell linker	AGM4/BASH/BLNK-S/LY57/SLP-65/SLP65/bca
CCL3	Hs,1514107	NM_002983	Chemokine (C-C motif) ligand 3	GoS19-1/LD78ALPHA/MIP-1-alpha/MIP1A/SCYA3
CCR1	Hs,301921	NM_001295	Chemokine (C-C motif) receptor 1	CD191/CCR-1/CCR1/CMKBR1/HM145/MIP1aR/SCYAR1
CCR2	Hs,705362	NM_001123396	Chemokine (C-C motif) receptor 2	CC-CCR-2/CCR-2/CCR2A/CCR2B/CD192/CCR2/CKR2A/CKR2B/CMKBR2/MCP-1-R
CCR3	Hs,506190	NM_001837	Chemokine (C-C motif) receptor 3	CC-CCR-3/CD193/CKR3/CMKBR3
CCR4	Hs,184926	NM_005508	Chemokine (C-C motif) receptor 4	CC-CCR-4/CD194/CKR4/CMKBR4/ChemR13/HGCN:14099/K5-5
CCR5	Hs,450802	NM_000579	Chemokine (C-C motif) receptor 5	CC-CCR-5/CCCKR5/CCR-5/CD195/CKR-5/CKR5/CMKBR5/IDDM22
CD1D	Hs,1799	NM_001766	CD1d molecule	CD1A/R3
CD2	Hs,523500	NM_001767	CD2 molecule	LFA-2/SRBC/T11
CD27	Hs,355307	NM_001242	CD27 molecule	S152/S152, LPFS2/T14/TNFRSF7/Tp55
CD274	Hs,521989	NM_014143	CD274 molecule	B7-H/B7H1/PD-L1/PDCCD1L1/PDCCD1LG1/PDL1
CD276	Hs,744915	NM_025240	CD276 molecule	4lg-B7-H3/B7-H3/B7H3/B7RP-2
CD28	Hs,443123	NM_006139	CD28 molecule	Tp44
CD3D	Hs,504048	NM_000732	CD3d molecule, delta (CD3-TCR complex)	CD3-DELTA/T3D
CD3E	Hs,3003	NM_000733	CD3e molecule, epsilon (CD3-TCR complex)	T3E/TCRE
CD3G	Hs,2259	NM_000073	CD3g molecule, gamma (CD3-TCR complex)	CD3-GAMMA/T3G
CD4	Hs,631659	NM_000616	CD4 molecule	CD4mut

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CD40	Hs,472860	NM_001250	CD40 molecule, TNF receptor superfamily member 5	Bp50/CDW40/TNFRSF5/p50
CD40LG	Hs,592244	NM_000074	CD40 ligand	CD154/CD40L/HIGM1/IGM/IMD3/T-BAM/TNFSF5/TRAP/gp39/hCD40L
CD47	Hs,446414	NM_001777	CD47 molecule	IAP/MER6/OA3
CD5	Hs,58685	NM_014207	CD5 molecule	LEU1/T1
CD7	Hs,36972	NM_006137	CD7 molecule	GP40/LEU-9/TP41/Tp40
CD80	Hs,838	NM_005191	CD80 molecule	B7/B7-1/B7,1/BB1/CD28LG/CD28LG1/LAB7
CD81	Hs,54457	NM_004356	CD81 molecule	CVID6/S5,7/TAPA1/TSPAN28
CD86	Hs,171182	NM_006889	CD86 molecule	B7-2/B7,2/B70/CD28LG2/LAB72
CD8A	Hs,85258	NM_001768	CD8a molecule	CD8/Leu2/MAL/p32
CD8B	Hs,405667	NM_004931	CD8b molecule	CD8B1/LEU2/LY3/LYT3/P37
CSF2	Hs,1349	NM_000758	Colony stimulating factor 2 (granulocyte-macrophage)	GMCSF
CX3CL1	Hs,531668	NM_002996	Chemokine (C-X ₃ -C motif) ligand 1	ABCD-3/C ₃ Xkine/CXC ₃ /CXC ₃ C/NTN/NTT/SCYD1/fractalkine/neurotactin
CXCR3	Hs,198252	NM_001504	Chemokine (C-X-C motif) receptor 3	CD182/CD183/CKR-L2/CMKAR3/GPR9/IP10-R/MigR/MigR
CXCR4	Hs,593413	NM_003467	Chemokine (C-X-C motif) receptor 4	CD184/D2S201E/FB22/HM89/HSY3RR/LAP3/LCR1/LESTR/NPY3R/NPYR/NPYRL/NPY3R/WHIM
CXCR5	Hs,113916	NM_001716	Chemokine (C-X-C motif) receptor 5	BLR1/CD185/MDR15
DPP4	Hs,368912	NM_001935	Dipeptidyl-peptidase 4	ADABP/ADCP2/CD26/DPPIV/TP103
EGR1	Hs,708393	NM_001964	Early growth response 1	AT225/GoS30/KROX-24/NGFI-A/TIS8/ZIF-268/ZNF225
FAS	Hs,244139	NM_000043	Fas (TNF receptor superfamily, member 6)	ALPS1A/APO-1/APT1/CD95/FAS1/FASTM/TNFRSF6
FASLG	Hs,2007	NM_000639	Fas ligand (TNF superfamily, member 6)	ALPS1B/APT1LG1/APTL/CD178/CD95-L/CD95L/FASL/TNFSF6
FOXP3	Hs,247700	NM_014009	Forkhead box P3	AIID/DIETER/IPEX/PIDX/XPID

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ICOSLG	Hs,14155	NM_015259	Inducible T-cell co-stimulator ligand	B7-H2/B7H2/B7RP-1/B7RP1/CD275/GL50/ICOS-L/ICOSL/LICOS
IFNG	Hs,856	NM_000619	Interferon, gamma	IFG/IFI
IL10	Hs,193717	NM_000572	Interleukin 10	CSIF/GVHDS/IL-10/IL10A/TGIF
IL11	Hs,467304	NM_000641	Interleukin 11	AGIF/IL-11
IL12A	Hs,673	NM_000882	Interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	CLMF/IL-12A/NFSK/NKSF1/P35
IL12B	Hs,674	NM_002187	Interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	CLMF/CLMF2/IL-12B/NKSF/NKSF2
IL12RB1	Hs,567294	NM_005535	Interleukin 12 receptor, beta 1	CD212/IL-12R-BETA1/IL12RB
IL12RB2	Hs,479347	NM_001559	Interleukin 12 receptor, beta 2	-
IL13	Hs,845	NM_002188	Interleukin 13	IL-13/P600
IL15	Hs,602618	NM_000585	Interleukin 15	IL-15
IL18	Hs,83077	NM_001562	Interleukin 18 (interferon-gamma-inducing factor)	IGIF/IL-18/IL-1g/IL1F4
IL18R1	Hs,469521	NM_003855	Interleukin 18 receptor 1	CD218a/CDw218a/IL-1Rrp/IL18RA/IL1RRP
IL1B	Hs,126256	NM_000576	Interleukin 1, beta	IL-1/IL1-BETA/IL1F2
IL2	Hs,89679	NM_000586	Interleukin 2	IL-2/TCGF/lymphokine
IL2RA	Hs,231367	NM_000417	Interleukin 2 receptor, alpha	CD25/IDDM10/IL2R/TCGFR
IL3	Hs,694	NM_000588	Interleukin 3 (colony-stimulating factor, multiple)	IL-3/MCGF/MULTI-CSF
IL4	Hs,73917	NM_000589	Interleukin 4	BCGF-1/BCGF1/BSF-1/BSF1/IL-4
IL4R	Hs,742121	NM_000418	Interleukin 4 receptor	CD124/IL-4RA/IL4RA
IL5	Hs,2247	NM_000879	Interleukin 5 (colony-stimulating factor, eosinophil)	EDF/IL-5/TRF
IL6	Hs,654458	NM_000600	Interleukin 6 (interferon, beta 2)	BSF2/HGF/HSF/IFNB2/IL-6
IL7	Hs,591873	NM_000880	Interleukin 7	IL-7
IL8	Hs,624	NM_000584	Interleukin 8	CXCL8/GCP-1/GCP1/LECT/LUCT/LYNAP/MDNCF/MONAP/NAF/NAP-1/NAP1

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IRF4	Hs,401013	NM_002460	Interferon regulatory factor 4	LSIRF/MUM1/NF-EM5
LAG3	Hs,409523	NM_002286	Lymphocyte-activation gene 3	CD223
LCK	Hs,470627	NM_005356	Lymphocyte-specific protein tyrosine kinase	LSK/YT16/p56lck/pp58lck
MAP3K7	Hs,594838	NM_003188	Mitogen-activated protein kinase kinase kinase 7	MEKK7/TAK1/TGF1a
MICB	Hs,731446	NM_005931	MHC class I polypeptide-related sequence B	PERB1,2
MS4A1	Hs,712553	NM_021950	Membrane-spanning 4-domains, subfamily A, member 1	B1/Bp35/CD20/CVID5/LEU-16/MS4A2/S7
NCK1	Hs,126889	NM_006153	NCK adaptor protein 1	NCK/NCKalpha/nck-1
NOS2	Hs,709191	NM_000625	Nitric oxide synthase 2, inducible	HEP-NOS/INOS/NOS/NOS2A
PTPRC	Hs,654514	NM_002838	Protein tyrosine phosphatase, receptor type, C	B220/CD45/CD45R/GP180/L-CA/LCA/LY5/T200
RAG1	Hs,677010	NM_000448	Recombination activating gene 1	RAG-1/RNF74
RIPK2	Hs,103755	NM_003821	Receptor-interacting serine-threonine kinase 2	CARD3/CARDIAK/CCK/GIG30/RICK/RIP2
SOCS1	Hs,50640	NM_003745	Suppressor of cytokine signaling 1	CIS1/CISH1/JAB/SOCS-1/SSI-1/SSI1/TIP3
TGFB1	Hs,645227	NM_000660	Transforming growth factor, beta 1	CED/DPD1/LAP/TGFB/TGFBeta
TLR1	Hs,621817	NM_003263	Toll-like receptor 1	CD281/TIL/TIL, LPRS5/rsc786
TLR2	Hs,519033	NM_003264	Toll-like receptor 2	CD282/TIL4
TLR4	Hs,174312	NM_138554	Toll-like receptor 4	ARMD10/CD284/TLR-4/TOLL
TLR6	Hs,743572	NM_006068	Toll-like receptor 6	CD286
TLR9	Hs,87968	NM_017442	Toll-like receptor 9	CD289
TNFSF14	Hs,129708	NM_003807	Tumor necrosis factor (ligand) superfamily, member 14	CD258/HVEM/LIGHT/LTg/TR2
VAV1	Hs,116237	NM_005428	Vav 1 guanine nucleotide exchange factor	VAV