

Adhesion

ADGRE5	CLEC4A	CLEC7A	IBSP	ICAM4	ITGA5	ITGB1	L1CAM	MBL2	SELE
ALCAM	CLEC4C	DST	ICAM1	ITGA1	ITGA6	ITGB2	LGALS1	MUC1	SVIL
CDH1	CLEC5A	EPCAM	ICAM2	ITGA2	ITGAL	ITGB3	LGALS3	NCAM1	THBS1
CDH5	CLEC6A	FN1	ICAM3	ITGA4	ITGAM	ITGB4	LGALS9	PVR	THY1

Apoptosis

APAF1	BCL2	BID	CARD11	CASP10	CASP8	FADD	NOD1	SSX1	TP53	TRAF3
BCL10	BCL2L1	BIRC5	CASP1	CASP3	DDX58	NLRP3	NOD2	TIMP1	TRAF2	TRAF6

B-Cell Function

BLNK	BTLA	CD22	CD79A	FAS	FCER2	IKBKG	PAX5	SLAMF1	SLAMF7	SPN
BTK	CD19	CD24	EBF4	FASLG	IKBKB	MS4A1	RAG1	SLAMF6	SPI1	

Cell Cycle

ABL1	ATF1	ATM	BATF	CCND1	CDK1	CDKN1B	NCL	RELA	SSX1	TBX21	TP53
ABL2	ATF2	AXL	BAX	CCND3	CDKN1A	EGR1	REL	RELB	TBK1	TIMP1	TTK

Cell Signaling

ADORA2A	DUSP4	HES1	IGF2R	LYN	MAPK1	MUC1	NOTCH1	RIPK2	SMAD3	STAT5B
AKT3	DUSP6	HES5	IKZF1	MAF	MAPK11	MYC	PIK3CD	RNF4	SOC51	STAT6
BCL6	ELK1	HEY1	IKZF2	MAP2K1	MAPK14	NFATC1	PIK3CG	RORC	SOC53	SYK
CEBPB	EP300	HEY2	IKZF3	MAP2K2	MAPK3	NFATC3	POU2F2	RUNX1	SPINK5	TAL1
CIITA	ETS1	HEYL	JAK1	MAP2K4	MAPK8	NFATC4	PRKCD	RUNX3	STAT1	TCF7
CREB1	FLT3	HMGB1	JAK2	MAP2K7	MAPKAPK2	NFKB1	PRKCE	S100B	STAT2	TYK2
CREB5	FOS	HRAS	JAK3	MAP3K1	MEF2C	NFKB2	PTEN	SEMA4D	STAT3	
CREBBP	GATA3	IGF1R	KIT	MAP3K5	MTDH	NFKBIA	PYCARD	SMAD2	STAT4	

Chemokine

CCL1	CCL16	CCL20	CCL25	CCL4	CCR2	CCR7	CX3CL1	CXCL12	CXCL3	CXCR1	CXCR6
CCL11	CCL17	CCL21	CCL26	CCL5	CCR3	CCR9	CX3CR1	CXCL13	CXCL5	CXCR2	MST1R
CCL13	CCL18	CCL22	CCL27	CCL7	CCR4	CCR2	CXCL1	CXCL14	CXCL6	CXCR3	PPBP
CCL14	CCL19	CCL23	CCL28	CCL8	CCR5	CKLF	CXCL10	CXCL16	CXCL8	CXCR4	XCL2
CCL15	CCL2	CCL24	CCL3	CCR1	CCR6	CMKLR1	CXCL11	CXCL2	CXCL9	CXCR5	XCR1

Complement

C1QA	C3	C3AR1	C5	CD55	CD59	NRP1					
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Cytokine

ADAM17	ENG	IFNA-Family	IRF1	IRF8	MIF	PTGS2	TNF	TNFRSF12A	TNFRSF1A	TNFSF11	TNFSF18
CSF1	FLT3LG	IFNA2	IRF2	LIF	MNDA	SOCS1	TNFAIP3	TNFRSF13B	TNFRSF1B	TNFSF12	TNFSF4
CSF1R	GPI	IFNAR1	IRF3	LTA	MX1	SOCS3	TNFRSF10B	TNFRSF13C	TNFRSF4	TNFSF13	TNFSF8
CSF2	IFI16	IFNB1	IRF4	LTB	OSM	SPP1	TNFRSF10C	TNFRSF14	TNFRSF8	TNFSF13B	TNFSF9
CSF3	IFI27	IFNG	IRF5	LTBP1	PDGFC	TGFB1	TNFRSF11A	TNFRSF17	TNFRSF9	TNFSF14	VEGFA
CSF3R	IFIT2	IFNGR1	IRF7	LTBR	PDGFRB	TGFB2	TNFRSF11B	TNFRSF18	TNFSF10	TNFSF15	VEGFC

Housekeeper

ACTB	DDX5	EIF2A	HMOX1	OAZ1	RPL38	RPS7	TBP				
ATP5F1	EEF1G	GAPDH	HSPA1A	PPIA	RPL6	SOD1	YWHAZ				

Immune Function

ADA	APP	CYBB	GNLY	GZMH	HLA-A	HLA-E	PLA2G7	TAP2	TXNIP		
AICDA	CAMP	DEFB1	GZMA	GZMK	HLA-B	IDO1	PRF1	TREM1			
ALOX5	CD14	FCMR	GZMB	GZMM	HLA-DRA	IDO2	TAP1	TREM2			

Interleukin Signaling

IL10	IL12A	IL15	IL18BP	IL1R2	IL20RA	IL22RA2	IL2RA	IL33	IL5RA	IL7R
IL10RA	IL12B	IL16	IL19	IL1RAP	IL20RB	IL23A	IL2RB	IL3RA	IL6	IL9
IL10RB	IL12RB2	IL17A	IL1A	IL1RN	IL21	IL23R	IL2RG	IL4	IL6R	IL1R1
IL11	IL13	IL17F	IL1B	IL2	IL22	IL24	IL3	IL4R	IL6ST	IL1R2
IL11RA	IL13RA2	IL18	IL1R1	IL20	IL22RA1	IL27	IL32	IL5	IL7	

Lineage Marker

CD14	CD200	CD27	CD34	CD40LG	CD55	CD70	CD86	FCER2	HAVCR2	TFRC
CD160	CD209	CD274	CD38	CD44	CD59	CD74	CD8A	FCGR1A	LYN	
CD19	CD22	CD276	CD3D	CD47	CD63	CD79A	CD99	FCGR1B	MME	
CD1A	CD24	CD28	CD4	CD5	CD68	CD80	DPP4	FCGR3A	POU2AF1	
CD2	CD244	CD33	CD40	CD52	CD69	CD83	ENTPD1	FOXP3	TBX21	

Gene List

HTG EdgeSeq Immuno-Oncology Assay



NK Function

CD244 FCGR3A KIR2DS1 KIR3DL3 KLRB1 KLRD1 KLRG1

Other

BMI1 COL3A1 MAGEA1 MAGEB2 MMP12 MSH3 MSH6 PLAUR SERPINA1 TFRC
 CD200 CTRC MAGEA3 MAGEC1 MMP9 MSH4 MSR1 PPARG SERPINB2
 CES1 IRGM MAGEA4 MAGEC2 MSH2 MSH5 PLAU PRAME SERPINE1

Proteasome

CHUK CTSH CTSL CTSS CYLD ISG15 PSMD7 RBX1 RNF149 UBE2T UBE3A

T-Cell Function

BTLA CD274 CD4 CD70 CD99 FOXP3 ICOSLG NFATC3 PTPRC SLAMF7 TCL1B
 CD1A CD276 CD40 CD80 CTLA4 GATA3 LAG3 NFATC4 RAG1 SPN
 CD2 CD28 CD40LG CD86 DPP4 GNLY LAT PDCD1 SLAMF1 SUSD3
 CD27 CD3D CD69 CD8A EOMES ICOS NFATC1 PDCD1LG2 SLAMF6 TCF7

Toll-Like Receptors

LY96 TICAM1 TLR1 TLR3 TLR5 TLR7 TLR9
 MYD88 TIRAP TLR2 TLR4 TLR6 TLR8 TOLLIP

Transporter

A2M ABCB11 ABCG2 ATG12 ATG5 CRP MERTK PECAM1 SLC25A3 TAP2
 ABCB1 ABCC2 ANXA1 ATG16L1 ATG7 FYN NT5E SLC11A1 TAP1

Tumor Necrosis Factor

FADD TNFRSF10B TNFRSF11B TNFRSF13C TNFRSF18 TNFRSF4 TNFSF10 TNFSF13 TNFSF15 TNFSF8 TRAF3
 TNF TNFRSF10C TNFRSF12A TNFRSF14 TNFRSF1A TNFRSF8 TNFSF11 TNFSF13B TNFSF18 TNFSF9 TRAF6
 TNFAIP3 TNFRSF11A TNFRSF13B TNFRSF17 TNFRSF1B TNFRSF9 TNFSF12 TNFSF14 TNFSF4 TRAF2



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