

HTG EdgeSeq Immuno-Oncology Assay Gene List

Adhesion

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

Apoptosis

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

B-Cell Function

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

Cell Cycle

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

Cell Signaling

ADORA2A	EP300	HRAS	MAF	MAPK8	NFKBIA	RORC	STAT2
AKT3	ETS1	IGF1R	MAP2K1	MAPKAPK2	NOTCH1	RUNX1	STAT3
BCL6	FLT3	IGF2R	MAP2K2	MEF2C	PIK3CD	RUNX3	STAT4
CEBPB	FOS	IKZF1	MAP2K4	MTDH	PIK3CG	S100B	STAT5B
CIITA	GATA3	IKZF2	MAP2K7	MUC1	POU2F2	SEMA4D	STAT6
CREB1	HES1	IKZF3	MAP3K1	MYC	PRKCD	SMAD2	SYK
CREB5	HES5	JAK1	MAP3K5	NFATC1	PRKCE	SMAD3	TAL1
CREBBP	HEY1	JAK2	MAPK1	NFATC3	PTEN	SOCS1	TCF7
DUSP4	HEY2	JAK3	MAPK11	NFATC4	PYCARD	SOCS3	TYK2
DUSP6	HEYL	KIT	MAPK14	NFKB1	RIPK2	SPINK5	
ELK1	HMGB1	LYN	MAPK3	NFKB2	RNF4	STAT1	

Chemokine

CCL1	CCL19	CCL26	CCR1	CCRL2	CXCL12	CXCL8	MST1R
CCL11	CCL2	CCL27	CCR2	CKLF	CXCL13	CXCL9	PPBP
CCL13	CCL20	CCL28	CCR3	CMKLR1	CXCL14	CXCR1	XCL2
CCL14	CCL21	CCL3	CCR4	CX3CL1	CXCL16	CXCR2	XCR1
CCL15	CCL22	CCL4	CCR5	CX3CR1	CXCL2	CXCR3	
CCL16	CCL23	CCL5	CCR6	CXCL1	CXCL3	CXCR4	
CCL17	CCL24	CCL7	CCR7	CXCL10	CXCL5	CXCR5	
CCL18	CCL25	CCL8	CCR9	CXCL11	CXCL6	CXCR6	

Complement

C1QA C3 C3AR1 C5 CD55 CD59 NRP1

Cytokine

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

Housekeeper

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

Immune Function

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

Interleukin Signaling

IL10 IL12RB2 IL18 IL1RAP IL22 IL2RA IL4 IL7
 IL10RA IL13 IL18BP IL1RN IL22RA1 IL2RB IL4R IL7R
 IL10RB IL13RA2 IL19 IL2 IL22RA2 IL2RG IL5 IL9
 IL11 IL15 IL1A IL20 IL23A IL3 IL5RA IRAK1
 IL11RA IL16 IL1B IL20RA IL23R IL32 IL6 IRAK2
 IL12A IL17A IL1R1 IL20RB IL24 IL33 IL6R
 IL12B IL17F IL1R2 IL21 IL27 IL3RA IL6ST

Lineage Marker

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

NK Function

CD244 FCGR3A KIR2DS1 KIR3DL3 KLRB1 KLRD1 KLRG1

Other

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

Proteasome

CHUK	CTSL	CYLD	PSMD7	RNF149	UBE3A
CTSH	CTSS	ISG15	RBX1	UBE2T	

T-Cell Function

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

Toll-Like Receptors

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

Transporter

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

Tumor Necrosis Factor

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