

Symbol	SC-mts #006_FPKM	Gene function
CD44	162.48	Adhesion,migration
ITGB1	45.83	Adhesion,migration
ADGRE5	31.29	Adhesion,migration
CD53	31.04	Adhesion,migration
CD47	18.93	Adhesion,migration
NECTIN2	16.63	Adhesion,migration
PECAM1	16.60	Adhesion,migration
ITGAE	5.51	Adhesion,migration
IGF1R	3.14	Adhesion,migration
CD38	2.09	Adhesion,migration
NCAM1	0.50	Adhesion,migration
ITGA1	0.37	Adhesion,migration
CD226	0.34	Adhesion,migration
CD83	10.88	Antigen presentation
CD1D	3.23	Antigen presentation
CD1C	2.79	Antigen presentation
CD74	1625.77	Antigen processing
HLA-A	890.74	Antigen processing
HLA-E	536.57	Antigen processing
HLA-DPA1	456.05	Antigen processing
HLA-F	144.16	Antigen processing
HLA-DMA	126.86	Antigen processing
HLA-B	118.11	Antigen processing
HLA-DRA	94.56	Antigen processing
HLA-DMB	75.29	Antigen processing
HLA-DPB1	36.38	Antigen processing
HLA-DRB1	34.71	Antigen processing
HLA-DOA	8.88	Antigen processing
HLA-F-AS1	4.68	Antigen processing
HLA-DQB2	3.91	Antigen processing
HLA-DOB	2.84	Antigen processing
HLA-C	2.55	Antigen processing
HLA-DQA2	2.48	Antigen processing
HLA-DQA1	0.28	Antigen processing
HLA-G	0.20	Antigen processing
GADD45GIP1	430.70	Apoptosis
TNFSF10	20.50	Apoptosis
BCL2L11	1.64	Apoptosis
BCL2	1.31	Apoptosis
JCHAIN	160.96	B cell marker
FCGR2B	12.59	B cell marker
FCGR1A	10.89	B cell marker
TNFSF13B	9.69	B cell marker
SKAP2	5.06	B cell marker
FCRLA	4.79	B cell marker
CD22	2.21	B cell marker
POU2AF1	2.10	B cell marker
TNFRSF17	1.96	B cell marker
CD19	1.82	B cell marker

CD79B	24.90	B cell receptor signaling
CD79A	14.85	B cell receptor signaling
FAS	3.75	B cell receptor signaling
TNFRSF14	41.96	Checkpoint pathway
CD276	39.73	Checkpoint pathway
CD48	31.07	Checkpoint pathway
TGFB1	21.45	Checkpoint pathway
C10orf54	7.22	Checkpoint pathway
HAVCR2	6.70	Checkpoint pathway
CD86	5.95	Checkpoint pathway
ADORA2A	3.77	Checkpoint pathway
PVR	3.36	Checkpoint pathway
NT5E	3.09	Checkpoint pathway
ENTPD1	2.69	Checkpoint pathway
PDCD1LG2	1.74	Checkpoint pathway
CD28	1.55	Checkpoint pathway
TNF	1.51	Checkpoint pathway
EOMES	1.50	Checkpoint pathway
ICOSLG	1.48	Checkpoint pathway
CEACAM1	1.37	Checkpoint pathway
CD69	1.26	Checkpoint pathway
TDO2	0.93	Checkpoint pathway
ICOS	0.91	Checkpoint pathway
CD274	0.81	Checkpoint pathway
CD244	0.75	Checkpoint pathway
TNFSF4	0.69	Checkpoint pathway
CD80	0.57	Checkpoint pathway
BTLA	0.42	Checkpoint pathway
CD160	0.28	Checkpoint pathway
TNFSF14	0.19	Checkpoint pathway
IDO2	0.09	Checkpoint pathway
NCF1	11.69	Chemokine signaling
CXCR3	3.49	Chemokine signaling
VEGFA	3.38	Chemokine signaling
CCL17	2.56	Chemokine signaling
CCR6	0.68	Chemokine signaling
CCL22	0.50	Chemokine signaling
CXCL1	0.45	Chemokine signaling
CCL20	0.13	Chemokine signaling
CCR4	0.06	Chemokine signaling
CXCR2	0.04	Chemokine signaling
STAT5A	14.58	Cytokine signaling
CSF1R	13.12	Cytokine signaling
CXCL8	4.68	Cytokine signaling
IFIT2	4.58	Cytokine signaling
TNFSF9	3.91	Cytokine signaling
CCR1	3.31	Cytokine signaling
CSF2RB	1.69	Cytokine signaling
HGF	1.43	Cytokine signaling
IL2RA	0.94	Cytokine signaling

IL7	0.78	Cytokine signaling
IL6	0.65	Cytokine signaling
IL3RA	14.10	Dendritic cell
NRP1	3.28	Dendritic cell
HERC6	2.39	Dendritic cell
ITGAX	2.26	Dendritic cell
ZBTB46	1.01	Dendritic cell
TLR3	0.38	Dendritic cell
CLEC4C	0.26	Dendritic cell
CD14	204.77	Dendritic cell,macrophage
CMKLR1	7.22	Dendritic cell,macrophage
MRC1	3.86	Dendritic cell,macrophage
CD209	2.24	Dendritic cell,macrophage
IL23A	0.52	Dendritic cell,macrophage
PMEL	528.89	Drug target
TNFRSF4	24.05	Drug target
CD27	19.44	Drug target
SLAMF7	14.77	Drug target
IDO1	13.05	Drug target
CD40	12.74	Drug target
STAT3	11.39	Drug target
TNFRSF18	5.04	Drug target
LAG3	3.38	Drug target
MS4A1	2.00	Drug target
PDCD1	1.84	Drug target
CTLA4	1.71	Drug target
CD70	1.02	Drug target
KLRD1	1.00	Drug target
IL10	0.39	Drug target
TLR9	0.27	Drug target
TNFRSF9	0.20	Drug target
IL12B	0.04	Drug target
BATF	25.32	Helper T cells
CD4	17.51	Helper T cells
STAT6	15.63	Helper T cells
CCR2	2.69	Helper T cells
STAT4	1.01	Helper T cells
GATA3	0.58	Helper T cells
RORC	0.03	Helper T cells
LMNA	417.95	Housekeeping
TUBB	342.03	Housekeeping
GUSB	44.11	Housekeeping
SDHA	27.74	Housekeeping
HMBS	18.73	Housekeeping
ABCF1	18.40	Housekeeping
G6PD	18.08	Housekeeping
TFRC	6.26	Housekeeping
LRP1	6.20	Housekeeping
TBP	3.57	Housekeeping
POLR2A	2.18	Housekeeping

MIF	2643.23	Innate immune response
C1QA	615.22	Innate immune response
C1QB	465.12	Innate immune response
LYZ	81.55	Innate immune response
AXL	19.32	Innate immune response
MAPK14	5.85	Innate immune response
IFIH1	2.85	Innate immune response
TLR7	1.41	Innate immune response
LCN2	0.89	Innate immune response
IFI6	138.80	Interferon signaling
IFI35	94.28	Interferon signaling
MX1	18.73	Interferon signaling
OAS2	4.80	Interferon signaling
IRF4	3.44	Interferon signaling
IFI44L	1.93	Interferon signaling
DDX58	1.85	Interferon signaling
OAS3	0.87	Interferon signaling
LST1	57.41	Leukocyte inhibition
LILRB1	1.30	Leukocyte inhibition
SELL	7.67	Leukocyte migration
ITGB7	4.61	Leukocyte migration
VCAM1	4.34	Leukocyte migration
ITGAL	2.23	Leukocyte migration
ITGAM	1.44	Leukocyte migration
SH2D1A	1.46	Lymphocyte activation
IKZF1	2.01	Lymphocyte development
IKZF4	0.34	Lymphocyte development
IKZF2	0.02	Lymphocyte development
CD63	3487.90	Lymphocyte infiltrate
TYROBP	307.23	Lymphocyte infiltrate
CD52	165.53	Lymphocyte infiltrate
FCER1G	152.63	Lymphocyte infiltrate
CCL5	150.71	Lymphocyte infiltrate
LAPTM5	102.10	Lymphocyte infiltrate
CORO1A	87.81	Lymphocyte infiltrate
NKG7	58.42	Lymphocyte infiltrate
CCL21	46.43	Lymphocyte infiltrate
CCL2	43.26	Lymphocyte infiltrate
LAMP1	38.72	Lymphocyte infiltrate
SRGN	32.07	Lymphocyte infiltrate
GZMA	26.61	Lymphocyte infiltrate
ITGB2	24.88	Lymphocyte infiltrate
GZMK	24.73	Lymphocyte infiltrate
IL2RG	22.74	Lymphocyte infiltrate
CXCR4	20.99	Lymphocyte infiltrate
JAML	19.90	Lymphocyte infiltrate
CCL4	18.45	Lymphocyte infiltrate
CD2	16.85	Lymphocyte infiltrate
CTSS	16.61	Lymphocyte infiltrate
CD37	16.23	Lymphocyte infiltrate

GZMB	14.79	Lymphocyte infiltrate
CCL3	13.24	Lymphocyte infiltrate
SLAMF8	12.37	Lymphocyte infiltrate
GZMH	11.50	Lymphocyte infiltrate
IGSF6	9.77	Lymphocyte infiltrate
CCL18	7.58	Lymphocyte infiltrate
IL10RA	6.46	Lymphocyte infiltrate
SIT1	5.11	Lymphocyte infiltrate
TNFAIP8	4.25	Lymphocyte infiltrate
FYB	3.76	Lymphocyte infiltrate
PTPN7	3.68	Lymphocyte infiltrate
CCR5	3.38	Lymphocyte infiltrate
LILRB2	3.17	Lymphocyte infiltrate
PTPRC	3.13	Lymphocyte infiltrate
LY9	2.81	Lymphocyte infiltrate
SAMHD1	2.75	Lymphocyte infiltrate
CXCR6	2.59	Lymphocyte infiltrate
TAGAP	1.11	Lymphocyte infiltrate
TARP	1.10	Lymphocyte infiltrate
CX3CR1	0.83	Lymphocyte infiltrate
TLR8	0.52	Lymphocyte infiltrate
AIF1	205.19	Macrophage
CD68	95.04	Macrophage
FCGR3A	51.28	Macrophage
CD163	13.22	Macrophage
ALOX15B	0.28	Macrophage
CD33	4.77	Myeloid marker
CEACAM8	0.76	Myeloid marker
MPO	0.10	Myeloid marker
S100A9	33.70	Myeloid marker,MDSC
S100A8	3.62	Myeloid marker,MDSC
FUT4	0.99	Myeloid marker,stem cell
PYGL	103.74	Neutrophil
DGAT2	8.72	Neutrophil
KREMEN1	3.78	Neutrophil
LRG1	0.95	Neutrophil
CA4	0.18	Neutrophil
GNLY	14.35	NK activation
KLRB1	9.41	NK activation
KLRK1	6.28	NK activation
PRF1	4.35	NK activation
KLRG1	1.69	NK activation
B3GAT1	0.35	NK activation
KLRF1	0.25	NK activation
FCGR3B	0.06	NK activation
NCR3	3.17	NK cell marker
NFATC1	2.22	PD-1 signaling
PRDM1	0.48	PD-1 signaling
PTEN	10.70	PD-1 signaling,tumor marker
HIF1A	4.83	PD-1 signaling,tumor marker

PIK3CD	4.04	'D-1 signaling,tumor marker
PTPN11	2.11	'D-1 signaling,tumor marker
PIK3CA	1.80	'D-1 signaling,tumor marker
FOXO1	1.64	'D-1 signaling,tumor marker
MTOR	1.63	'D-1 signaling,tumor marker
CDKN3	35.08	Proliferation
CCNB2	17.23	Proliferation
KIAA0101	14.69	Proliferation
CDK1	14.44	Proliferation
MAD2L1	13.34	Proliferation
FOXM1	7.70	Proliferation
TOP2A	3.96	Proliferation
BUB1	3.27	Proliferation
MELK	2.39	Proliferation
MKI67	2.06	Proliferation
EGR2	0.54	T cell differentiation
LEXM	0.06	T cell differentiation
NFKBIA	31.67	T cell receptor signaling
PTPN6	10.73	T cell receptor signaling
ZAP70	6.67	T cell receptor signaling
CBLB	1.55	T cell receptor signaling
CD40LG	0.29	T cell receptor signaling
M6PR	67.02	T cell regulation
ID3	36.04	T cell regulation
ID2	18.11	T cell regulation
IL18	14.42	T cell regulation
EBI3	6.09	T cell regulation
IL15	2.16	T cell regulation
FOXP3	0.60	T cell regulation
KLF2	11.11	T cell regulation,trafficking
PTPRCAP	98.36	TCR coexpression
CD3D	51.37	TCR coexpression
CD8B	14.82	TCR coexpression
CD3E	11.16	TCR coexpression
CD8A	7.47	TCR coexpression
LCK	7.40	TCR coexpression
CD247	6.47	TCR coexpression
CCR7	4.00	TCR coexpression
CD6	3.26	TCR coexpression
TIGIT	3.16	TCR coexpression
IL7R	2.46	TCR coexpression
GRAP2	2.20	TCR coexpression
CD3G	1.71	TCR coexpression
IL2RB	1.59	TCR coexpression
IKZF3	1.41	TCR coexpression
GPR18	1.36	TCR coexpression
LAMP3	1.15	TCR coexpression
ITK	0.74	TCR coexpression
CRTAM	0.55	TCR coexpression
MLANA	289.90	Tumor antigen

CTAG2	0.43	Tumor antigen
MAGEA10	0.07	Tumor antigen
RPS6	2155.35	Tumor marker
MYC	42.09	Tumor marker
MMP2	32.84	Tumor marker
AKT1	32.46	Tumor marker
PGF	22.19	Tumor marker
MMP9	19.04	Tumor marker
CDKN2A	17.50	Tumor marker
MAPK1	10.28	Tumor marker
EFNA4	7.65	Tumor marker
RB1	3.76	Tumor marker
PTK7	2.54	Tumor marker
TCF7	1.92	Tumor marker
KRT7	1.15	Tumor marker
NOTCH3	1.11	Tumor marker
EGR3	0.56	Tumor marker
KRT5	0.50	Tumor marker
BRCA1	0.48	Tumor marker
IRS1	0.43	Tumor marker
TP63	0.03	Tumor marker
BRCA2	0.03	Tumor marker
EGFR	0.02	Tumor marker
PTGS2	0.02	Tumor marker
SNAI2	6.28	Tumor marker,stemness
TWIST1	3.72	Tumor marker,stemness
SNAI1	2.03	Tumor marker,stemness
ZEB1	1.29	Tumor marker,stemness
IFITM1	380.71	Type I interferon signaling
IFITM2	343.11	Type I interferon signaling
IFI27	322.68	Type I interferon signaling
BST2	173.91	Type I interferon signaling
ISG15	139.67	Type I interferon signaling
IFIT3	21.98	Type I interferon signaling
ISG20	18.09	Type I interferon signaling
IFIT1	3.09	Type I interferon signaling
PSMB9	86.85	Type II interferon signaling
TAP1	73.35	Type II interferon signaling
IRF9	43.64	Type II interferon signaling
STAT1	38.74	Type II interferon signaling
ICAM1	37.34	Type II interferon signaling
CXCL10	23.69	Type II interferon signaling
CXCL9	16.14	Type II interferon signaling
IRF1	14.42	Type II interferon signaling
CYBB	10.50	Type II interferon signaling
GBP1	8.22	Type II interferon signaling
OAS1	7.24	Type II interferon signaling
CX3CL1	5.32	Type II interferon signaling
CXCL13	4.31	Type II interferon signaling
CIITA	2.84	Type II interferon signaling

BCL6	2.27	Type II interferon signaling
CXCL11	2.05	Type II interferon signaling
EIF2AK2	1.58	Type II interferon signaling
FASLG	0.74	Type II interferon signaling
IL1B	0.71	Type II interferon signaling
CXCR5	0.39	Type II interferon signaling
TBX21	0.32	Type II interferon signaling
IFNG	0.26	Type II interferon signaling