

Table SI. Correlation analysis between TMC8 and related genes and markers of immune cells in cBioPortal.

Immune cell	Correlated gene	Spearman's correlation	P-value
CD8+ T cell	CD8A	0.55	2.92x10 ^{-40a}
	CD8B	0.57	3.24x10 ^{-44a}
	CD80	0.30	4.42x10 ^{-12a}
T cell, general	CD3D	0.64	8.28x10 ^{-59a}
	CD3E	0.61	4.69x10 ^{-51a}
	CD2	0.62	3.08x10 ^{-54a}
B cell	CD19	0.52	5.59x10 ^{-35a}
	CD79a	0.43	2.77x10 ^{-23a}
	CD79b	0.53	1.25x10 ⁻³⁸
Monocyte	CD86	0.32	3.57x10 ^{-13a}
	CD115	0.36	9.91x10 ^{-17a}
	CCL2	0.28	3.30x10 ^{-10a}
TAM	CD68	0.09	0.0471 ^a
	IL10	0.23	1.41x10 ^{-07a}
	INOS	0.23	1.88x10 ^{-07a}
M1 Macrophage	IRF5	0.36	1.47x10 ^{-16a}
	PTGS2	-0.15	7.94x10 ^{-04a}
	CD163	0.21	1.86x10 ^{-06a}
M2 Macrophage	VSIG4	0.20	8.21x10 ^{-06a}
	MS4A4A	0.30	9.25x10 ^{-12a}
	CD66b	0.15	1.13x10 ^{-03a}
Neutrophils	CD11b	0.42	1.06x10 ^{-22a}
	CCR7	0.49	2.09x10 ^{-31a}
	KIR2DL1	0.24	5.87x10 ^{-08a}
Natural killer cell	KIR2DL3	0.32	1.87x10 ^{-13a}
	KIR2DL4	0.39	3.31x10 ^{-19a}
	KIR3DL1	0.28	2.24x10 ^{-10a}
Dendritic cell	KIR3DL2	0.38	1.03x10 ^{-18a}
	KIR3DL3	0.27	1.97x10 ^{-09a}
	KIR2DS4	0.29	7.43x10 ^{-11a}
Th1	HLA-DP β 1	0.52	5.73x10 ^{-35a}
	HLA-DQ β 1	0.44	6.69x10 ^{-25a}
	HLA-DRA	0.48	6.10x10 ^{-30a}
Th2	HLA-DPA1	0.48	8.34x10 ^{-30a}
	CD1C	0.33	5.31x10 ^{-14a}
	CD11c	0.43	6.96x10 ^{-24a}
Tfh	NRP1	-0.04	0.37
	T-bet	0.57	1.99x10 ^{-43a}
	STAT4	0.39	3.54x10 ^{-19a}
Th17	STAT1	0.20	9.11x10 ^{-06a}
	IFN- γ	0.48	3.45x10 ^{-30a}
	TNF- α	0.20	1.04x10 ^{-05a}
Treg	GATA3	0.30	2.16x10 ^{-11a}
	STAT6	0.08	0.07
	STAT5A	0.50	7.14x10 ^{-33a}
Treg	IL13	0.32	6.15x10 ^{-13a}
	BCL6	0.11	1.46x10 ^{-02a}
	IL21	0.35	5.03x10 ^{-16a}
Treg	STAT3	0.16	3.28x10 ^{-04a}
	IL17A	0.26	7.53x10 ^{-09a}
	FOXP3	0.46	2.85x10 ^{-27a}
Treg	CCR8	0.31	2.15x10 ^{-12a}
	STAT5B	0.12	7.34x10 ^{-03a}
	TGFb	-0.08	0.06

^aP<0.05. TAM, tumor-associated macrophage; Th, T helper cell; Tfh, follicular helper T cell; Treg, regulatory T cell; CSF1R, colony stimulating factor 1 receptor; CCL2, C-C motif chemokine ligand 2; IL10, interleukin 10; INOS (NOS2), nitric oxide synthase 2; IRF5, interferon regulatory factor 5; PTGS2, prostaglandin-endoperoxide synthase 2; VSG4, V-set and immunoglobulin domain-containing 4; MS4A4A, membrane spanning 4-domains A4A; CEACAM8, carcinoembryonic antigen-related cell-adhesion molecule 8; ITGAM, integrin subunit α M; CCR7, C-C motif chemokine receptor 7; KIR2DL1, killer cell immunoglobulin-like receptor two immunoglobulin domains and long cytoplasmic tail 1; HLA-DP β 1, major histocompatibility complex class II-DP β 1; CD1C, CD1c molecule; ITGAX, integrin subunit α X; NRP1, neuropilin 1; TBX21, T-box 21; STAT4, signal transducer and activator of transcription 4; IFN- γ , interferon γ ; TNF- α , tumor necrosis factor α ; GATA3, GATA-binding protein 3; BCL6, transcription repressor; FOXP3, forkhead box P3; CCR8, C-C motif chemokine receptor 8; STAT5B, signal transducer and activator of transcription 5B; TGFB1, transforming growth factor β 1.