Supplementary Table S1. The mRNA expression levels of MiT family proteins in mouse immune cells

Name	Population Name (Immgen)	Population Long Name (Immgen)	Expression value normalized by DESeq2				Description
			MITF	TFEB	TFE3	TFEC	
BM.CLP	proB.CLP.BM	Bone Marrow Common Lymphoid Progenitor	23.6061	41.2372	113.403	140.228	6 week old C57BL/6J mice sorted on LIN-CD93+CD117+IL7Ra+CD45R-
BM.Fr.A	proB.FrA.BM	Bone Marrow Fr. A (Pre-Pro-B)	4.33292	38.1868	105.861	2.37154	6 week old C57BL/6J mice sorted on LIN-CD93+CD117+IL7Ra+CD45R+
BM.Fr.BC	proB.FrBC.BM	Bone Marrow Fr. BC (Pro-B)	1.25564	73.0701	87.2593	0.1	6 week old C57BL/6J mice sorted on CD93+IgM-CD19+CD43+HSA+
BM.Fr.E	B.FrE.BM	Bone Marrow Fr. E (newly formed B)	2.81765	366.919	120.084	0.1	6 week old C57BL/6J mice sorted on CD93+IgM+CD19+CD43-HSA+
SP.B	B.Sp	Splenic B cells	5.57405	284.751	113.002	4.88979	6 week old C57BL/6J mice sorted on CD19+Igm+TCRb-
SP.Fo.B	B.Fo.Sp	Splenic Follicular	5.19068	244.763	139.869	2.22969	6 week old C57BL/6J mice sorted on CD19+CD45R+IgM+CD93-CD23+CD43-CD5-
SP.MZ.B	B.MZ.Sp	Splenic Marginal Zone	5.86563	279.019	97.2349	1.12806	6 week old C57BL/6J mice sorted on CD19+CD45R+IgM++CD93-CD23-CD21/35++
SP.mem.B	B.mem.Sp	Splenic Memory	5.16066	369.022	133.195	1.11213	6 week old C57BL/6J mice sorted on CD19+B220+IgD-Fas-CD38+IgG+
SP.GC.CC.B	B.GC.CC.Sp	Splenic Germinal Center Centrocytes	0.655187	381.124	148.181	0.695956	6 week old C57BL/6J mice sorted on CD19+B220+IgD-Fas+CD38-CXCR4lo CD86hi
SP.GC.CB.B	B.GC.CB.Sp	Splenic Germinal Center Centroblasts	2.04402	335.251	83.9857	2.96957	6 week old C57BL/6J mice sorted on CD19+B220+IgD-Fas+CD38-CXCR4hi CD86lo
SP.PB	B.PB.Sp	Splenic Plasmablasts	115.863	113.341	219.801	90.6389	6 week old C57BL/6J BLIMP1-GFP mice sorted on GFPlo CD138+ MHCIIhi (dump: NK1.1- TCRb- Gr1- CD11b-)
SP.PC	B.PC.Sp	Splenic Plasma cells	31.0314	46.4971	170.223	0.1	6 week old C57BL/6J BLIMP1-GFP mice sorted on GFPhi CD138+ MHCIIlo (dump: NK1.1- TCRb- Gr1- CD11b-)
BM.PC	B.PC.BM	Bone Marrow Plasma cells	15.2591	121.372	166.85	71.3476	6 week old C57BL/6J BLIMP1-GFP mice sorted on GFPhi CD138+ MHCIIlo (dump: NK1.1- TCRb- Gr1- CD11b-)
PC.B1b	B1b.PC	Peritoneal B1b	7.33426	120.272	142.477	2.58533	6 week old C57BL/6J mice sorted on CD19+CD45R+IgM++CD93-CD23-CD43+CD5-
TH.DN1.preT	preT.DN1.Th	Thymic preT DN1	7.00766	17.3751	115.783	1.82065	6 week old C57BL/6J mice sorted on Lin-(CD4,CD8,CD11b,CD11c,CD19,TCRb,TCRgd,NK1.1,Gr1,Ter119)CD44hiCD117hiCD25-/lo
TH.DN2a	preT.DN2a.Th	Thymic preT DN2a	2.99207	8.77623	89.7543	22.2726	6 week old C57BL/6J mice sorted on Lin-(CD4,CD8,CD11b,CD11c,CD19,TCRb,TCRgd,NK1.1,Gr1,Ter119)CD44hiCD117hiCD25hi
TH.DN2b	preT.DN2b.Th	Thymic preT DN2b	3.1355	3.07126	70.3761	0.1	6 week old C57BL/6J mice sorted on Lin-(CD4,CD8,CD11b,CD11c,CD19,TCRb,TCRgd,NK1.1,Gr1,Ter119)CD44hiCD117intCD25hi
TH.DN3.preT	preT.DN3.Th	Thymic preT DN3	6.09295	0.850806	50.377	0.1	6 week old C57BL/6J mice sorted on Lin-(CD4,CD8,CD11b,CD11c,CD19,TCRb,TCRgd,NK1.1,Gr1,Ter119)CD44-CD25hi
TH.DN4	T.DN4.Th	Thymic preT DN4	5.36914	9.75058	46.2154	0.1	6 week old C57BL/6J mice sorted on Lin-(CD4,CD8,CD11b,CD11c,CD19,TCRb,TCRgd,NK1.1,Gr1,Ter119)CD44-CD25-CD28+
TH.ISP.T	T.ISP.Th	Intermediate Single-Positive Thymocytes	8.98207	0.366077	48.6836	1.26584	6 week old C57BL/6J mice sorted on CD4-CD8+TCR-/loCD24hi
TH.DP.T	T.DP.Th	Double Positive Thymocytes	8.60907	0.664371	54.1794	0.1	6 week old C57BL/6J mice sorted on SSCsmallCD4+CD8+TCRbloCD69-Dump-
TH.CD4T	T.4.Th	CD4+ Thymocytes	14.9721	29.0421	99.4241	0.1	6 week old C57BL/6J mice sorted on CD4+CD8-TCRbhiCD24int-Dump-
TH.CD8T	T.8.Th	CD8+ Thymocytes	16.3152	30.0519	70.4149	2.63823	6 week old C57BL/6J mice sorted on CD4-CD8+TCRbhiCD24int-Dump-
SP.Naïve CD4T	T.4.Nve.Sp	Splenic Naive CD4+ T cells	27.2485	26.3856	131.705	0.1	6 week old C57BL/6J mice sorted on CD4+CD8-TCRbhiCD62LhiCD44loCD25-Dump-
SP.CD4T	T.4.19-8-TCRb+.Sp	CD4 T Cell	3.85417	21.4227	191.338	11.89	6 week C57BL/6J sorted on PI-CD19-CD8-TCRb+CD4+
SP.Naïve CD8T	T.8.Nve.Sp	Splenic Naive CD8+ T cells	11.3593	21.2965	104.229	0.1	6 week old C57BL/6J mice sorted on CD4-CD8+ TCRbhiCD62LhiCD44loDump-
SP.CD25hi.Treg	Treg.4.25hi.Sp	Splenic CD25hi Tregs	15.112	40.0668	121.695	1.4264	6 week old C57BL/6J mice sorted on CD4+CD8-TCRbhiCD62LhiCD44loCD25hiDump-
LI.FoxP3+Nrplo Treg	Treg.4.FP3+.Nrplo.Co	Colonic FoxP3+ Nrplo Tregs	22.3314	45.3057	250.78	2.76807	6 week old C57BL/6J mice sorted on Foxp3+CD4+TCRb+NrploDump
SP.NKT	NKT.Sp	Splenic Natural Killer T cells	13.7922	29.4405	242.648	21.6164	6 week old C57BL/6J mice sorted on [CD19-Gr1-Ter119-TCRgd-]TCRbMedCD1dTetramer(alphaGalCer)+
SP. iNKT	NKT.19-8-TCRb+CD1daGalCerTet+.Sp	Splenic iNKT	3.98096	80.1586	282.258	4.17583	6 week C57BL/6J sorted on PI-CD19-CD11b-CD45+TCRb+aGalCer-CD1dTetramer
Lung. iNKT	NKT.19-8-TCRb+CD1daGalCerTet+.Lu	iNKT from Lung	3.50057	62.467	209.61	0.1	6 week C57BL/6J sorted on PI-CD19-CD11b-CD45+TCRb+aGalCer-CD1dTetramer
TH. iNKT	NKT.19-8-TCRb+CD1daGalCerTet+.Th	Thymic iNKT	8.95864	84.9318	197.151	1.07811	6 week C57BL/6J sorted on PI-CD45+CD8-CD19-TCRb+aGalCer-CD1dTetramer
Liver. iNKT	NKT.19-8-TCRb+CD1daGalCerTet+.Lv	iNKT from Liver	4.00959	83.2066	198.312	0.311964	6 week C57BL/6J sorted on PI-CD19-CD11b-CD45+TCRb+aGalCer-CD1dTetramer
SP.gdT	Tgd.Sp	Total Splenic gdT cells	9.88983	20.5224	127.129	10.179	6 week old C57BL/6J mice sorted on TCRd+CD3+CD24-CD4-CD8-
SP.CD27+CD11b-NK	NK.27+11b-.Sp	Splenic CD27+ CD11b- Natural Killer	2.61169	128.196	90.5209	0.1	6 week old C57BL/6J mice sorted on CD3-CD19-NK1.1+ CD127-CD51-CD49a- DX5+CD11b-CD27+
SP.CD27+CD11b+NK	NK.27+11b+.Sp	Splenic CD27+ CD11b+ Natural Killer	1.94687	83.5692	88.9303	1.94687	6 week old C57BL/6J mice sorted on CD3-CD19-NK1.1+ CD127-CD51-CD49a- DX5+CD11b+CD27+
SP.CD27-CD11b+NK	NK.27-11b+.Sp	Splenic CD27- CD11b+ Natural Killer	7.87095	114.381	127.399	2.62363	6 week old C57BL/6J mice sorted on CD3-CD19-NK1.1+ CD127-CD51-CD49a- DX5+CD11b+CD27-
BM.CD27+CD11b-NK	NK.27+11b-.BM	Bone Marrow CD27+ CD11b- Natural Killer	28.7545	123.728	55.0375	0.1	6 week old C57BL/6J mice sorted on CD3-CD19-NK1.1+ CD127-CD51-CD49a- DX5+CD11b-CD27+
BM.CD27+CD11b+NK	NK.27+11b+.BM	Bone Marrow CD27+ CD11b+ Natural Killer	3.91475	116.079	80.0901	1.37158	6 week old C57BL/6J mice sorted on CD3-CD19-NK1.1+ CD127-CD51-CD49a- DX5+CD11b+CD27+
BM.CD27-CD11b+NK	NK.27-11b+.BM	Bone Marrow CD27- CD11b+ Natural Killer	4.07639	145.909	110.121	0.1	6 week old C57BL/6J mice sorted on CD3-CD19-NK1.1+ CD127-CD51-CD49a- DX5+CD11b+CD27-
SI.ST2+ILC2	ILC2.SI	ST2+ ILC2 siLP	31.0894	24.5598	138.045	0.1	6 week old C57BL/6J mice sorted on CD45+ CD3-CD19-CD127+KLRG1+ ST2+
SI.ST2-ILC2	ILC2.ST2-.SI	Small Intestine ST2- Innate Lymphoid Cell Type 2	23.8146	18.1699	124.4	2.6824	
SI.NKp46-CCR6-ILC3	ILC3.NKp46-CCR6-.SI	Lamina Propia DN ILC3	97.3864	13.1384	159.569	2.10591	6 week old C57BL/6J mice sorted on CD45lo CD3-CD19- NK1.1- Thy1+ NKp46- CCR6-
SI.CCR6+ILC3	ILC3.CCR6+.SI	Lamina Propia CCR6+ ILC3	67.4143	9.83551	252.548	2.60671	6 week old C57BL/6J mice sorted on CD45lo CD3-CD19- NK1.1- Thy1+ NKp46- CCR6+
SI.NKp46+ILC3	ILC3.NKp46+.SI	Lamina Propia NKp46+ ILC3	65.9474	42.6196	210.238	1.12717	6 week old C57BL/6J mice sorted on CD45lo CD3-CD19- NK1.1- Thy1+ NKp46+ CCR6-
SP.CD8+DC	DC.8+.Sp	Spleenic CD8+ DC	53.3973	393.302	363.207	26.9215	6 week old C57BL/6J mice sorted on CD45+ MHCII+ CD11c+ CD8+ CD4-
SP.CD4+DC	DC.4+.Sp	Splenic CD4+DC	38.7188	111.518	364.029	3.56848	6 week old C57BL/6J mice sorted on CD45+ MHCII+ CD11c+ CD8- CD4+
SP.pDC	DC.pDC.Sp	Splenic Plasmacytoid DC	53.524	138.803	233.302	3.9716	6 week old C57BL/6J mice sorted on CD45lo CD11b+
PC.MF	MF.PC	Peritoneal Macrophages	172.537	63.1128	647.222	110.281	6 week old C57BL/6J mice sorted on F4/80+ICAM2+CD5-CD19-CD43-
SP.RP.MF	MF.RP.Sp	Spleen Red Pulp Macrophages	236.878	82.0357	681.039	620.499	6 week old C57BL/6J mice sorted on Mertk+ CD64+ CD11blo F4/80+
AMF	MF.Alv.Lu	Alveolar Macrophages	247.838	254.15	265.348	1227.11	6 week old C57BL/6J mice sorted on CD45+ CD11c+ SiglecF+
CNS.microglia.MF	MF.microglia.CNS	Brain Microglia Macrophages	220.014	165.178	989.247	9.00035	6 week old C57BL/6J mice sorted on CD19-CD3-Ly6G-CD45loCD11b+ CD64+ F4/80loCD206-
AT.MF	MF.AT	Inguinal & Perigonadal Adipose Tissue Macrophages	211.038	72.1314	869.014	120.539	6 week old C57BL/6J mice sorted on CD19-Ly6G- CD45+CD11b+F4/80+MerTK+CD64+
Blood.Ly6Chi.Mo	Mo.6C+II-.Bl	Ly6Chi blood Monocytes	79.5922	221.32	608.104	58.3439	6 week old C57BL/6J mice sorted on B220-CD3-Ly6G-CD45+CD115+CD11b+Ly6C+
Blood.Ly6Clo.Mo	Mo.6C-II-.Bl	Ly6Clo blood Monocytes	37.3332	458.346	450.633	2.78904	6 week old C57BL/6J mice sorted on B220-CD3-Ly6G-CD45+CD115+CD11b+Ly6C-
PC.MC	MC.PC	Peritoneal Mast cells	1232.89	1.55291	194.063	0.826454	
HT.MC	MC.Ht	Mast Cell from Heart	584.554	29.3093	298.651	0.1	6 week old C57BL/6J sorted on CD45+FcER1a+CD117+CD11b-CD11c-CD4-CD8-CD19-
BM.Neu	GN.BM	Bone Marrow Neutrophil	46.2386	390.596	666.784	57.9007	6 week old C57BL/6J mice sorted on CD11b+ Ly6G+
SP.Neu	GN.Sp	Splenic Neutrophil	108.431	528.991	690.33	62.9521	6 week old C57BL/6J mice sorted on CD11b+ Ly6G+
PC.Eo	Eo.PC	Peritoneal Eosinophil	116.465	579.612	222.955	28.7916	6 week old C57BL/6J sorted on CD11b+ SiglecF+ FSC low SSC high CD11c-CD4-CD8-CD19-
SP.Eo	Eo.Sp	Splenic Eosinophil	21.4285	508.289	122.366	22.1272	6 week old C57BL/6J sorted on CD11b+ SiglecF+ FSC low SSC high CD11c-CD4-CD8-CD19-
SP.Ba	Ba.Sp	Splenic Basophil	1.93354	42.4283	241.408	37.8886	6 week old C57BL/6J sorted on CD11b+CD49b+FcER1a+CD11c-CD4-CD8-CD19-CD117-