

Table S4A

Symbol	Gene ID	Description	Treg Lck fold change (log ₂)	Treg/Tconv signature (log ₂)
Ii2ra	16184	interleukin 2 receptor, alpha chain	-0.14	5.558
Foxp3	20371	forkhead box P3	-0.18	5.178
Plagl1	22634	pleiomorphic adenoma gene-like 1	-0.32	4.300
Itgb8	320910	integrin beta 8	-0.09	4.285
Socs2	216233	suppressor of cytokine signaling 2	-0.09	4.263
Dusp4	319520	dual specificity phosphatase 4	-1.3	3.621
4631408O11Rik	66693	RIKEN cDNA 4631408O11 gene	-0.79	3.392
Ii2rb	16185	Interleukin 2 receptor, beta chain	-0.35	3.336
Ctla4	12477	cytotoxic T-lymphocyte-associated protein 4	-0.62	3.202
Gpr83	14608	G protein-coupled receptor 83	-0.39	3.104
Zfpn1a4	22781	zinc finger protein, subfamily 1A, 4 (Eos)	-0.09	3.104
Itih5	209378	inter-alpha (globulin) inhibitor H5	-0.44	3.018
A730095J18Rik	319462	RIKEN cDNA A730095J18 gene	0.04	2.963
Zfpn1a2	22779	zinc finger protein, subfamily 1A, 2 (Helios)	-0.79	2.848
Rgs16	19734	regulator of G-protein signaling 16	-0.32	2.828
Nrp1	18186	neuropilin 1	-0.83	2.807
Tiam1	21844	T-cell lymphoma invasion and metastasis 1	-1.1	2.766
Hmgn3	94353	high mobility group nucleosomal binding domain 3	-1.05	2.678
Itgae	16407	integrin, alpha E, epithelial-associated	-0.9	2.609
Prnp	19122	prion protein	0.03	2.536
Ptger2	19217	prostaglandin E receptor 2 (subtype EP2)	-1.06	2.511
Rgs1	50778	regulator of G-protein signaling 1	-0.11	2.459
Myo9a	272606	Myosin IXa	0.04	2.459
Sh3bgrl2	212531	SH3 domain binding glutamic acid-rich protein like 2	0.99	2.459
8430427H17Rik	329540	RIKEN cDNA 8430427H17 gene	-0.35	2.433
Prg4	96875	proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein)	-0.21	2.433
Melk	17279	maternal embryonic leucine zipper kinase	-0.08	2.433
Tnfrsf4	22163	tumor necrosis factor receptor superfamily, member 4	-1.47	2.406
Mbnl3	171170	muscleblind-like 3 (Drosophila)	-0.68	2.406
Slc22a2	20518	solute carrier family 22 (organic cation transporter), member 2	-0.46	2.379
Map3k8	26410	mitogen activated protein kinase kinase kinase 8	-0.12	2.379
1110032F04Rik	68725	RIKEN cDNA 1110032F04 gene	-0.83	2.350
Arhgap20	244867	Rho GTPase activating protein 20	-0.7	2.350
Rragd	52187	Ras-related GTP binding D	-0.16	2.322
Dst	13518	dystonin	-0.44	2.263
Usp27x	54651	ubiquitin specific peptidase 27, X chromosome	0.03	2.263
Serpina3g	20715	serine (or cysteine) peptidase inhibitor, clade A, member 3G	-0.86	2.233
Cpe	12876	carboxypeptidase E	0.24	2.202
6430570G24	327989	Hypothetical protein 6430570G24	-0.54	2.170
Folr4	64931	folate receptor 4 (delta)	-0.22	2.170
Gata1	14460	GATA binding protein 1	0.14	2.170
5830456J23Rik	76105	RIKEN cDNA 5830456J23 gene	-0.59	2.104
Klrg1	50928	killer cell lectin-like receptor subfamily G, member 1	-0.19	2.070
Pmaip1	58801	phorbol-12-myristate-13-acetate-induced protein 1	-0.44	2.036
Ptpn13	19249	protein tyrosine phosphatase, non-receptor type 13	-0.07	2.036
Gbp4	55932	guanylate nucleotide binding protein 4	0.26	2.036
Rabgap11	29809	RAB GTPase activating protein 11-like	-0.69	2.000
Spry1	24063	sprouty homolog 1 (Drosophila)	-0.59	2.000
Gnaq	14682	guanine nucleotide binding protein, alpha q polypeptide	-0.2	2.000
H2-Ob	15002	histocompatibility 2, O region beta locus	-0.12	2.000
4921524J06Rik	77057	RIKEN cDNA 4921524J06 gene	0	2.000
Vav2	22325	Vav2 oncogene	-0.57	1.963
Cd200	17470	Cd200 antigen	-0.98	1.926
Trim59	66949	Tripartite motif-containing 59	-0.39	1.926
Frm4b	232288	FERM domain containing 4B	-0.06	1.926
Niban	63913	niban protein	-0.52	1.888
Cd86	12524	CD86 antigen	-0.3	1.888
Cd83	12522	CD83 antigen	-1.81	1.848
Eno3	13808	enolase 3, beta muscle	-0.89	1.807
Bhlhb2	20893	basic helix-loop-helix domain containing, class B2	-0.76	1.807
Nt5e	23959	5' nucleotidase, ecto	-0.87	1.766
Ndg2	103172	Nur77 downstream gene 2	-0.82	1.766
Plcl1	227120	Phospholipase C-like 1	-0.31	1.766
Slc35d1	242585	Solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1	-0.29	1.766
Gpr34	23890	G protein-coupled receptor 34	0.53	1.766
Rcn1	19672	reticulocalbin 1	0.67	1.766
Hivep3	16656	human immunodeficiency virus type I enhancer binding protein 3	-0.77	1.722
Kif13a	16553	kinesin family member 13A	-0.48	1.722
Gfi1	14581	growth factor independent 1	-0.46	1.722
Adamts6	108154	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 6	-0.4	1.722
Il1r1	17082	interleukin 1 receptor-like 1	0.07	1.722
Swap70	20947	SWA-70 protein	-0.89	1.678
Capn3	12335	calpain 3	-0.59	1.678
Maf	17132	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog	-0.43	1.678
Lrig1	16206	leucine-rich repeats and immunoglobulin-like domains 1	-0.35	1.678
Gbp1	14468	guanylate nucleotide binding protein 1	-0.06	1.678
Plscr1	22038	phospholipid scramblase 1	-0.4	1.632
Adam19	11492	a disintegrin and metalloproteinase domain 19 (meltrin beta)	0.01	1.632
Phtf2	68770	Putative homeodomain transcription factor 2	-0.59	1.585
2510009E07Rik	72190	RIKEN cDNA 2510009E07 gene	-0.3	1.585
Cttn	13043	cortactin	0.15	1.585
Stx11	74732	syntaxin 11	-0.83	1.536
Cd81	12520	CD 81 antigen	-0.73	1.536

Table S4A

Igf1r	16001	Insulin-like growth factor I receptor	-0.25	1.536
Coro2a	107684	coronin, actin binding protein 2A	-0.19	1.536
Ecm1	13601	extracellular matrix protein 1	-0.13	1.536
Cish	12700	cytokine inducible SH2-containing protein	-0.07	1.536
Pip5k1a	18719	phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha	0.02	1.536
Gsto1	14873	glutathione S-transferase omega 1	-1.22	1.485
Ccr6	12458	chemokine (C-C motif) receptor 6	-0.78	1.485
1200007D18Rik	67458	RIKEN cDNA 1200007D18 gene	-0.49	1.485
Ahr	11622	aryl-hydrocarbon receptor	-0.38	1.485
Slc2a3	20527	solute carrier family 2 (facilitated glucose transporter), member 3	-0.12	1.485
Cd38	12494	CD38 antigen	-0.1	1.485
Tktl1	83553	transketolase-like 1	-0.06	1.485
Sh3gl3	20408	SH3-domain GRB2-like 3	-0.9	1.433
Cyfp1	20430	cytoplasmic FMR1 interacting protein 1	-0.88	1.433
Cerk	223753	ceramide kinase	-0.39	1.433
Serpinb6b	20708	serine (or cysteine) peptidase inhibitor, clade B, member 6b	-0.16	1.433
Traf1	22029	Tnf receptor-associated factor 1	0.03	1.433
Camk2b	12323	Calcium/calmodulin-dependent protein kinase II, beta	0.04	1.433
Hipk2	15258	Homeodomain interacting protein kinase 2	0.05	1.433
Tnfrsf9	21942	tumor necrosis factor receptor superfamily, member 9	-1.21	1.379
Tnfrsf1b	21938	tumor necrosis factor receptor superfamily, member 1b	-0.66	1.379
Anxa4	11746	annexin A4	-0.48	1.379
Phlda1	21664	pleckstrin homology-like domain, family A, member 1	-0.35	1.379
E030024N20Rik	319427	RIKEN cDNA E030024N20 gene	-0.09	1.379
Slc22a5	20520	solute carrier family 22 (organic cation transporter), member 5	0.04	1.379
C80638	97086	expressed sequence C80638	-1.36	1.322
Gabarapl1	57436	gamma-aminobutyric acid (GABA(A)) receptor-associated protein-like 1	-0.24	1.322
Xdh	22436	xanthine dehydrogenase	-0.1	1.322
Ppm1l	242083	protein phosphatase 1 (formerly 2C)-like	-0.08	1.322
Tnfrsf11	21943	tumor necrosis factor (ligand) superfamily, member 11	-1.19	1.263
Penk1	18619	preproenkephalin 1	-0.9	1.263
Zfp52	22710	zinc finger protein 52	-0.67	1.263
Eno2	13807	enolase 2, gamma neuronal	-0.56	1.263
Igf2r	16004	insulin-like growth factor 2 receptor	-0.45	1.263
Eea1	216238	early endosome antigen 1	-0.43	1.263
Rhoq	104215	ras homolog gene family, member Q	-0.42	1.263
Ggta1	14594	glycoprotein galactosyltransferase alpha 1, 3	-0.39	1.263
Arhgef12	69632	Rho guanine nucleotide exchange factor (GEF) 12	-0.28	1.263
1810054D07Rik	69863	RIKEN cDNA 1810054D07 gene	-0.2	1.263
C230081A13Rik	244895	RIKEN cDNA C230081A13 gene	0.04	1.263
Ga17	98221	Dendritic cell protein GA17	0.11	1.263
6330509M05Rik	102913	RIKEN cDNA 6330509M05 gene	-0.51	1.202
Scamp1	107767	secretory carrier membrane protein 1	-0.37	1.202
Eef2k	13631	eukaryotic elongation factor-2 kinase	-0.34	1.202
Zfp467	68910	zinc finger protein 467	-0.27	1.202
Ddc	13195	dopa decarboxylase	-0.26	1.202
2510042P03Rik	72421	RIKEN cDNA 2510042P03 gene	-0.11	1.202
Neb	17996	nebulin	0.04	1.202
4631427C17Rik	74340	RIKEN cDNA 4631427C17 gene	0.11	1.202
Nrn1	68404	neuritin 1	-1.4	1.138
Samsn1	67742	SAM domain, SH3 domain and nuclear localization signals, 1	-1.1	1.138
Trpm1	17364	transient receptor potential cation channel, subfamily M, member 1	-0.69	1.138
Ndrp1	17988	N-myc downstream regulated gene 1	-0.61	1.138
Csda	56449	cold shock domain protein A	-0.4	1.138
Myo1e	71602	myosin IE	-0.38	1.138
Entpd1	12495	ectonucleoside triphosphate diphosphohydrolase 1	-0.36	1.138
Rnase4	58809	ribonuclease, RNase A family 4	-0.22	1.138
C030046G05	327885	hypothetical protein C030046G05	-1.03	1.070
Inpp5f	101490	inositol polyphosphate-5-phosphatase F	-0.78	1.070
Osbp13	71720	oxysterol binding protein-like 3	-0.66	1.070
A530052I06Rik	99953	RIKEN cDNA A530052I06 gene	-0.62	1.070
Kcnk6	52150	potassium inwardly-rectifying channel, subfamily K, member 6	-0.45	1.070
Gphn	268566	gephyrin	-0.44	1.070
Ndr1	17990	N-myc downstream regulated-like	-0.31	1.070
4930566A11Rik	75871	RIKEN cDNA 4930566A11 gene	-0.28	1.070
Galm	319625	galactose mutarotase	-0.21	1.070
Slamf1	27218	signaling lymphocytic activation molecule family member 1	-0.18	1.070
Ccr12	54199	chemokine (C-C motif) receptor-like 2	-0.13	1.070
Gadd45g	23882	growth arrest and DNA-damage-inducible 45 gamma	-0.08	1.070
Rab6ip1	19347	Rab6 interacting protein 1	0.01	1.070
4833442J19Rik	320204	RIKEN cDNA 4833442J19 gene	0.2	1.070
Slc14a1	108052	solute carrier family 14 (urea transporter), member 1	0.21	1.070
1300007C21Rik	67527	RIKEN cDNA 1300007C21 gene	-1.32	1.000
Ptprs	19280	protein tyrosine phosphatase, receptor type, S	-0.95	1.000
Alcam	11658	activated leukocyte cell adhesion molecule	-0.92	1.000
Nr4a2	18227	Nuclear receptor subfamily 4, group A, member 2	-0.69	1.000
Syt11	229521	synaptotagmin XI	-0.51	1.000
Snag1	170625	sorting nexin associated golgi protein 1	-0.31	1.000
2510005D08Rik	68043	RIKEN cDNA 2510005D08 gene	-0.22	1.000
Matn2	17181	matrilin 2	-0.18	1.000
AI875142	103885	expressed sequence AI875142	-0.17	1.000
Vps54	245944	vacuolar protein sorting 54 (yeast)	-0.16	1.000
Cdk6	12571	cyclin-dependent kinase 6	-0.1	1.000
Smyd2	226830	SET and MYND domain containing 2	-0.02	1.000
Samhd1	56045	SAM domain and HD domain, 1	0.29	1.000

Table S4A

Tgm2	21817	transglutaminase 2, C polypeptide	0.47	1.000
Sh3bgrl	56726	SH3-binding domain glutamic acid-rich protein like	-0.63	0.926
Tgfb1	21812	transforming growth factor, beta receptor I	-0.57	0.926
Myo1c	17913	myosin IC	-0.5	0.926
Socs5	56468	suppressor of cytokine signaling 5	-0.46	0.926
Evi5	14020	ecotropic viral integration site 5	-0.44	0.926
Gem	14579	GTP binding protein (gene overexpressed in skeletal muscle)	-0.31	0.926
D630039A03Rik	242484	RIKEN cDNA D630039A03 gene	-0.27	0.926
Zfpn1a3	22780	zinc finger protein, subfamily 1A, 3 (Aiolos)	-0.22	0.926
Bmpr2	12168	bone morphogenic protein receptor, type II (serine/threonine kinase)	-0.19	0.926
Plcb4	18798	phospholipase C, beta 4	-0.03	0.926
Lta	16992	lymphotoxin A	0.06	0.926
2810402A17Rik	67062	RIKEN cDNA 2810402A17 gene	0.12	0.926
Egr2	13654	early growth response 2	-1.45	0.848
Ephx1	13849	epoxide hydrolase 1, microsomal	-0.96	0.848
Tank	21353	TRAF family member-associated Nf-kappa B activator	-0.7	0.848
Plp2	18824	proteolipid protein 2	-0.49	0.848
Tnfrsf18	21936	tumor necrosis factor receptor superfamily, member 18	-0.42	0.848
Capg	12332	capping protein (actin filament), gelsolin-like	-0.37	0.848
Slc12a2	20496	solute carrier family 12, member 2	-0.32	0.848
D18Ert653e	52662	DNA segment, Chr 18, ERATO Doi 653, expressed	-0.24	0.848
Prkca	18750	Protein kinase C, alpha	-0.18	0.848
E2f3	13557	E2F transcription factor 3	-0.16	0.848
Laptm4b	114128	lysosomal-associated protein transmembrane 4B	-0.12	0.848
Fabp5	16592	fatty acid binding protein 5, epidermal	-0.11	0.848
Nipa2	93790	non imprinted in Prader-Willi/Angelman syndrome 2 homolog (human)	-0.11	0.848
Mgat5	107895	mannoside acetylglucosaminyltransferase 5	-0.11	0.848
Casp7	12369	caspase 7	-0.1	0.848
Sla	20491	Src-like adaptor	-0.06	0.848
Bid	12122	BH3 interacting domain death agonist	-0.06	0.848
Abcb1a	18671	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	-0.01	0.848
Lpxn	107321	leupaxin	0.02	0.848
Slc4a7	218756	solute carrier family 4, sodium bicarbonate cotransporter, member 7	0.03	0.848
2010111101Rik	72061	RIKEN cDNA 2010111101 gene	0.04	0.848
BC053440	234344	cDNA sequence BC053440	0.06	0.848
Pros1	19128	protein S (alpha)	0.07	0.848
Sec24a	77371	SEC24 related gene family, member A (S. cerevisiae)	0.39	0.848
Pdcd1lg2	58205	programmed cell death 1 ligand 2	-0.54	0.766
Lxn	17035	latexin	-0.5	0.766
Ptger4	19219	prostaglandin E receptor 4 (subtype EP4)	-0.48	0.766
Ebi3	50498	Epstein-Barr virus induced gene 3	-0.45	0.766
A530088107Rik	212167	RIKEN cDNA A530088107 gene	-0.43	0.766
5830474E16Rik	76094	RIKEN cDNA 5830474E16 gene	-0.36	0.766
D10Ucla1	28193	DNA segment, Chr 10, University of California at Los Angeles 1	-0.28	0.766
Nfil3	18030	nuclear factor, interleukin 3, regulated	-0.24	0.766
Gprasp2	245607	G protein-coupled receptor associated sorting protein 2	-0.23	0.766
Icam1	15894	intercellular adhesion molecule	-0.2	0.766
Tnfrsf25	85030	tumor necrosis factor receptor superfamily, member 25	-0.2	0.766
Atp6v0a1	11975	ATPase, H+ transporting, lysosomal V0 subunit A1	-0.19	0.766
Rora	19883	RAR-related orphan receptor alpha	-0.18	0.766
2810051F02Rik	72704	RIKEN cDNA 2810051F02 gene	-0.12	0.766
Bcl2l1	12048	Bcl2-like 1	-0.11	0.766
Ibrdc3	75234	IBR domain containing 3	-0.06	0.766
AI480653	268880	expressed sequence AI480653	-0.06	0.766
Pscd3	19159	pleckstrin homology, Sec7 and coiled-coil domains 3	0.08	0.766
P2ry10	78826	purinergic receptor P2Y, G-protein coupled 10	0.29	0.766
Gzmb	14939	granzyme B	0.41	0.766
Cst7	13011	cystatin F (leukocystatin)	-0.78	0.678
4732460K03Rik	58894	RIKEN cDNA 4732460K03 gene	-0.77	0.678
Birc1e	17951	baculoviral IAP repeat-containing 1e	-0.43	0.678
6330403K07Rik	103712	RIKEN cDNA 6330403K07 gene	-0.41	0.678
Sdc4	20971	syndecan 4	-0.41	0.678
Crsp9	66213	cofactor required for Sp1 transcriptional activation, subunit 9	-0.38	0.678
Atpif1	11983	ATPase inhibitory factor 1	-0.36	0.678
2610027H17Rik	71811	RIKEN cDNA 2610027H17 gene	-0.35	0.678
Sypl	19027	synaptophysin-like protein	-0.23	0.678
Homer1	26556	homer homolog 1 (Drosophila)	-0.21	0.678
Unc119	22248	unc-119 homolog (C. elegans)	-0.18	0.678
Arrdc4	66412	arrestin domain containing 4	-0.15	0.678
Pafah1b3	18476	platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit	-0.15	0.678
3110045G13Rik	73182	RIKEN cDNA 3110045G13 gene	-0.07	0.678
Ahnak	11621	AHNAK nucleoprotein (desmoyokin)	0.01	0.678
Crsp2	13008	cysteine and glycine-rich protein 2	0.09	0.678
Car12	76459	carbonic anhydrase 12	0.09	0.678
Tlr7	170743	toll-like receptor 7	0.15	0.678
P4ha1	18451	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide	0.21	0.678
2810474O19Rik	67246	RIKEN cDNA 2810474O19 gene	0.36	0.678
Irf4	16364	interferon regulatory factor 4	-1.02	0.585
Twsg1	65960	twisted gastrulation homolog 1 (Drosophila)	-0.86	0.585
E130308A19Rik	230259	RIKEN cDNA E130308A19 gene	-0.71	0.585
1700108L22Rik	214048	RIKEN cDNA 1700108L22 gene	-0.44	0.585
Mapk12	29857	mitogen-activated protein kinase 12	-0.38	0.585
Dapp1	26377	dual adaptor for phosphotyrosine and 3-phosphoinositides 1	-0.17	0.585
Hdgfrp3	29877	hepatoma-derived growth factor, related protein 3	-0.01	0.585
Hist2h2be	319190	histone 2, H2be	-0.25	-0.515

Table S4A

Bcl9	77578	B-cell CLL/lymphoma 9	-0.11	-0.515
Sestd1	228071	SEC14 and spectrin domains 1	-0.07	-0.515
1300007F04Rik	67477	RIKEN cDNA 1300007F04 gene	0.01	-0.515
Entpd5	12499	ectonucleoside triphosphate diphosphohydrolase 5	0.39	-0.515
Klhdc2	69554	kelch domain containing 2	-0.55	-0.737
Igsf6	80719	immunoglobulin superfamily, member 6	-0.44	-0.737
Pde7a	NA	phosphodiesterase 7A	-0.12	-0.737
Pim2	18715	proviral integration site 2	-0.06	-0.737
Bach2	12014	BTB and CNC homology 2	0.01	-0.737
Elovl7	74559	ELOVL family member 7, elongation of long chain fatty acids (yeast)	0.07	-0.737
Ranbp10	74334	RAN binding protein 10	0.09	-0.737
Tle4	21888	transducin-like enhancer of split 4, homolog of Drosophila E(spl)	0.1	-0.737
Gsn	227753	gelsolin	0.12	-0.737
Spnb2	20742	spectrin beta 2	0.12	-0.737
Nlk	18099	nemo like kinase	0.13	-0.737
B930041F14Rik	230991	RIKEN cDNA B930041F14 gene	0.2	-0.737
Add3	27360	adducin 3 (gamma)	0.21	-0.737
Rassf3	192678	Ras association (RalGDS/AF-6) domain family 3	0.22	-0.737
Itk	16428	IL2-inducible T-cell kinase	0.24	-0.737
Gpd2	14571	glycerol phosphate dehydrogenase 2, mitochondrial	0.35	-0.737
C230085N15Rik	320556	RIKEN cDNA C230085N15 gene	0.35	-0.737
Tmie	20776	transmembrane inner ear	0.38	-0.737
Rsn	56430	restin (Reed-Steinberg cell-expressed intermediate filament-associated protein)	0.39	-0.737
Lef1	16842	lymphoid enhancer binding factor 1	0.47	-0.737
C230093N12Rik	98952	RIKEN cDNA C230093N12 gene	0.53	-0.737
C030002B11Rik	78540	RIKEN cDNA C030002B11 gene	0.61	-0.737
Pdk1	228026	pyruvate dehydrogenase kinase, isoenzyme 1	0.67	-0.737
Dntt	21673	deoxynucleotidyltransferase, terminal	0.83	-0.737
5830431A10Rik	76024	RIKEN cDNA 5830431A10 gene	0.88	-0.737
1500005K14Rik	76566	RIKEN cDNA 1500005K14 gene	1.14	-0.737
4930431H11Rik	73785	RIKEN cDNA 4930431H11 gene	-0.43	-1.000
Ebi2	321019	Epstein-Barr virus induced gene 2	-0.39	-1.000
Gpr171	229323	G protein-coupled receptor 171	-0.32	-1.000
A430107P09Rik	320898	RIKEN cDNA A430107P09 gene	-0.14	-1.000
2210010L05Rik	98682	RIKEN cDNA 2210010L05 gene	-0.02	-1.000
Evi2b	216984	ecotropic viral integration site 2b	0.05	-1.000
AB124611	382062	cDNA sequence AB124611	0.05	-1.000
Ggta1	23887	gamma-glutamyltransferase-like activity 1	0.06	-1.000
Tgfb2	21813	transforming growth factor, beta receptor II	0.1	-1.000
Ust	338362	Uronyl-2-sulfotransferase	0.12	-1.000
Daam1	208846	dishevelled associated activator of morphogenesis 1	0.21	-1.000
Gmfg	63986	glia maturation factor, gamma	0.21	-1.000
Lyst	17101	lysosomal trafficking regulator	0.22	-1.000
Sema4a	20351	sema domain, Ig domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A	0.22	-1.000
1110038D17Rik	68778	RIKEN cDNA 1110038D17 gene	0.22	-1.000
Slc20a1	20515	solute carrier family 20, member 1	0.22	-1.000
Ugcg	22234	UDP-glucose ceramide glucosyltransferase	0.24	-1.000
C030044B11Rik	68128	RIKEN cDNA C030044B11 gene	0.25	-1.000
Rtn4r1	237847	reticulin 4 receptor-like 1	0.25	-1.000
Rasgrp2	19395	RAS, guanyl releasing protein 2	0.26	-1.000
Ggt1	14598	gamma-glutamyltransferase 1	0.28	-1.000
1190002H23Rik	66214	RIKEN cDNA 1190002H23 gene	0.31	-1.000
D730035F11Rik	320010	RIKEN cDNA D730035F11 gene	0.33	-1.000
Scml4	268297	sex comb on midleg-like 4 (Drosophila)	0.34	-1.000
Slc12a7	20499	solute carrier family 12, member 7	0.39	-1.000
E430014B02Rik	320908	RIKEN cDNA E430014B02 gene	0.46	-1.000
Satb1	20230	Special AT-rich sequence binding protein 1	0.59	-1.000
E430004N04Rik	210757	RIKEN cDNA E430004N04 gene	0.72	-1.000
Atp1b1	11931	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	0.98	-1.000
F2r1	14063	coagulation factor II (thrombin) receptor-like 1	-0.54	-1.322
Snn	20621	stannin	-0.5	-1.322
Ppic	19038	peptidylprolyl isomerase C	-0.21	-1.322
Klhdc1	271005	kelch domain containing 1	-0.06	-1.322
Gpr97	54672	G protein-coupled receptor 97	-0.05	-1.322
Ccl5	20304	chemokine (C-C motif) ligand 5	-0.04	-1.322
Phxr4	18689	per-hexamer repeat gene 4	-0.03	-1.322
Tmem23	208449	transmembrane protein 23	0.03	-1.322
Cyp2s1	74134	cytochrome P450, family 2, subfamily s, polypeptide 1	0.09	-1.322
Ibtk	108837	inhibitor of Bruton agammaglobulinemia tyrosine kinase	0.14	-1.322
Adh1	11522	alcohol dehydrogenase 1 (class I)	0.18	-1.322
Tcf7	21414	transcription factor 7, T-cell specific	0.38	-1.322
Chd7	320790	chromodomain helicase DNA binding protein 7	0.43	-1.322
Emb	13723	embigin	0.53	-1.322
A130092J06Rik	241303	RIKEN cDNA A130092J06 gene	0.83	-1.322
Pole2	18974	polymerase (DNA directed), epsilon 2 (p59 subunit)	-0.56	-1.737
Itgb3	16416	integrin beta 3	-0.16	-1.737
Lair1	52855	leukocyte-associated Ig-like receptor 1	-0.05	-1.737
Btbd14a	67991	BTB (POZ) domain containing 14A	0.01	-1.737
Acpl2	235534	acid phosphatase-like 2	0.02	-1.737
Wwox	80707	WW domain-containing oxidoreductase	0.1	-1.737
Myo10	17909	Myosin X	0.1	-1.737
Sema4f	20355	sema domain, immunoglobulin domain (Ig), TM domain, and short cytoplasmic domain	0.11	-1.737
Enc1	13803	ectodermal-neural cortex 1	0.15	-1.737
Ntrk3	18213	Neurotrophic tyrosine kinase, receptor, type 3	0.25	-1.737
2810001G20Rik	66456	RIKEN cDNA 2810001G20 gene	0.27	-1.737

Table S4A

Rgmb	68799	RGM domain family, member B	0.3	-1.737
Tgfb3	21814	transforming growth factor, beta receptor III	0.31	-1.737
Acpp	56318	acid phosphatase, prostate	0.42	-1.737
Cnga1	12788	cyclic nucleotide gated channel alpha 1	0.42	-1.737
2010004M13Rik	76511	RIKEN cDNA 2010004M13 gene	0.46	-1.737
Klhl5	71778	kelch-like 5 (Drosophila)	0.51	-1.737
Igfbp4	16010	insulin-like growth factor binding protein 4	0.93	-1.737
Pou2af1	18985	POU domain, class 2, associating factor 1	-0.43	-2.322
Hs3st3b1	54710	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	-0.04	-2.322
Epas1	13819	Endothelial PAS domain protein 1	0.03	-2.322
Dip3b	216190	Dip3 beta	0.11	-2.322
Sgk	20393	serum/glucocorticoid regulated kinase	0.3	-2.322
2610019F03Rik	72148	RIKEN cDNA 2610019F03 gene	0.67	-2.322
Slc16a5	217316	solute carrier family 16 (monocarboxylic acid transporters), member 5	0.95	-2.322
2310010M24Rik	71897	RIKEN cDNA 2310010M24 gene	-0.1	-3.322
Klrd1	16643	killer cell lectin-like receptor, subfamily D, member 1	-0.06	-3.322
AI646023	192734	expressed sequence AI646023	-0.02	-3.322
Il1rl2	107527	interleukin 1 receptor-like 2	0.07	-3.322
Atp8b4	241633	ATPase, class I, type 8B, member 4	0.1	-3.322
App	11820	amyloid beta (A4) precursor protein	0.14	-3.322
Pde3b	18576	phosphodiesterase 3B, cGMP-inhibited	0.24	-3.322
Rapgef4	56508	Rap guanine nucleotide exchange factor (GEF) 4	0.37	-3.322
Pdlim4	30794	PDZ and LIM domain 4	0.81	-3.322
2310032F03Rik	76747	RIKEN cDNA 2310032F03 gene	0.96	-3.322

Table S4 B

Symbol	Gene ID	Description	Treg Lck fold change (log ₂)	Treg/Tconv signature (log ₂)
Dusp4	319520	dual specificity phosphatase 4	-1.3	3.621
4631408O11Rik	66693	RIKEN cDNA 4631408O11 gene	-0.79	3.392
Ctla4	12477	cytotoxic T-lymphocyte-associated protein 4	-0.62	3.202
Zfpn1a2	22779	zinc finger protein, subfamily 1A, 2 (Helios)	-0.79	2.848
Nrp1	18186	neuropilin 1	-0.83	2.807
Tiam1	21844	T-cell lymphoma invasion and metastasis 1	-1.1	2.766
Hmgn3	94353	high mobility group nucleosomal binding domain 3	-1.05	2.678
Ilgae	16407	integrin, alpha E, epithelial-associated	-0.9	2.609
Ptger2	19217	prostaglandin E receptor 2 (subtype EP2)	-1.06	2.511
Sh3bgrl2	212531	SH3 domain binding glutamic acid-rich protein like 2	0.99	2.459
Tnfrsf4	22163	tumor necrosis factor receptor superfamily, member 4	-1.47	2.406
Mbnl3	171170	muscleblind-like 3 (Drosophila)	-0.68	2.406
1110032F04Rik	68725	RIKEN cDNA 1110032F04 gene	-0.83	2.350
Arhgap20	244867	Rho GTPase activating protein 20	-0.7	2.350
Serpina3g	20715	serine (or cysteine) peptidase inhibitor, clade A, member 3G	-0.86	2.233
5830456J23Rik	76105	RIKEN cDNA 5830456J23 gene	-0.59	2.104
Rabgap11	29809	RAB GTPase activating protein 1-like	-0.69	2.000
Spry1	24063	sprouty homolog 1 (Drosophila)	-0.59	2.000
Cd200	17470	Cd200 antigen	-0.98	1.926
Cd83	12522	CD83 antigen	-1.81	1.848
Eno3	13808	enolase 3, beta muscle	-0.89	1.807
Bhlhb2	20893	basic helix-loop-helix domain containing, class B2	-0.76	1.807
Nt5e	23959	5' nucleotidase, ecto	-0.87	1.766
Ndg2	103172	Nur77 downstream gene 2	-0.82	1.766
Rcn1	19672	reticulocalbin 1	0.67	1.766
Hivep3	16656	human immunodeficiency virus type 1 enhancer binding protein 3	-0.77	1.722
Swap70	20947	SWA-70 protein	-0.89	1.678
Capn3	12335	calpain 3	-0.59	1.678
Phtf2	68770	Putative homeodomain transcription factor 2	-0.59	1.585
Stx11	74732	syntaxin 11	-0.83	1.536
Cd81	12520	CD 81 antigen	-0.73	1.536
Gsto1	14873	glutathione S-transferase omega 1	-1.22	1.485
Ccr6	12458	chemokine (C-C motif) receptor 6	-0.78	1.485
Sh3gl3	20408	SH3-domain GRB2-like 3	-0.9	1.433
Cyfp1	20430	cytoplasmic FMR1 interacting protein 1	-0.88	1.433
Tnfrsf9	21942	tumor necrosis factor receptor superfamily, member 9	-1.21	1.379
Tnfrsf1b	21938	tumor necrosis factor receptor superfamily, member 1b	-0.66	1.379
C80638	97086	expressed sequence C80638	-1.36	1.322
Tnfrsf11	21943	tumor necrosis factor (ligand) superfamily, member 11	-1.19	1.263
Penk1	18619	preproenkephalin 1	-0.9	1.263
Zfp52	22710	zinc finger protein 52	-0.67	1.263
Nrn1	68404	neurexin 1	-1.4	1.138
Samsn1	67742	SAM domain, SH3 domain and nuclear localization signals, 1	-1.1	1.138
Trpm1	17364	transient receptor potential cation channel, subfamily M, member 1	-0.69	1.138
Ndrp1	17988	N-myc downstream regulated gene 1	-0.61	1.138
C030046G05	327885	hypothetical protein C030046G05	-1.03	1.070
Inpp5f	101490	inositol polyphosphate-5-phosphatase F	-0.78	1.070
Osbpl3	71720	oxysterol binding protein-like 3	-0.66	1.070
A530052I06Rik	99953	RIKEN cDNA A530052I06 gene	-0.62	1.070
Ptprs	19280	protein tyrosine phosphatase, receptor type, S	-0.95	1.000
Alcam	11658	activated leukocyte cell adhesion molecule	-0.92	1.000
Nr4a2	18227	Nuclear receptor subfamily 4, group A, member 2	-0.69	1.000
Sh3bgrl	56726	SH3-binding domain glutamic acid-rich protein like	-0.63	0.926
Egr2	13654	early growth response 2	-1.45	0.848
Ephx1	13849	epoxide hydrolase 1, microsomal	-0.96	0.848
Tank	21353	TRAF family member-associated Nf-kappa B activator	-0.7	0.848
Cst7	13011	cystatin F (leukocystatin)	-0.78	0.678
4732460K03Rik	58894	RIKEN cDNA 4732460K03 gene	-0.77	0.678
Irf4	16364	interferon regulatory factor 4	-1.02	0.585
Twsg1	65960	twisted gastrulation homolog 1 (Drosophila)	-0.86	0.585
E130308A19Rik	230259	RIKEN cDNA E130308A19 gene	-0.71	0.585
C030002B11Rik	78540	RIKEN cDNA C030002B11 gene	0.61	-0.737
Pdk1	228026	pyruvate dehydrogenase kinase, isoenzyme 1	0.67	-0.737
Dntt	21673	deoxynucleotidyltransferase, terminal	0.83	-0.737
5830431A10Rik	76024	RIKEN cDNA 5830431A10 gene	0.88	-0.737
1500005K14Rik	76566	RIKEN cDNA 1500005K14 gene	1.14	-0.737
Satb1	20230	Special AT-rich sequence binding protein 1	0.59	-1.000
E430004N04Rik	210757	RIKEN cDNA E430004N04 gene	0.72	-1.000
Atp1b1	11931	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	0.98	-1.000
A130092J06Rik	241303	RIKEN cDNA A130092J06 gene	0.83	-1.322
Igfbp4	16010	insulin-like growth factor binding protein 4	0.93	-1.737
2610019F03Rik	72148	RIKEN cDNA 2610019F03 gene	0.67	-2.322
Slc16a5	217316	solute carrier family 16 (monocarboxylic acid transporters), member 5	0.95	-2.322
Pdlim4	30794	PDZ and LIM domain 4	0.81	-3.322
2310032F03Rik	76747	RIKEN cDNA 2310032F03 gene	0.96	-3.322