

Supplementary Table 1. The significant differentially expressed genes in response to atopic dermatitis (AD) based on the microarray analysis ($p < 0.05$)

Gene symbol	Gene description	Fold-change	p-value
<i>Ptprc</i>	Protein tyrosine phosphatase, receptor type, c	14.904024	0
<i>Cr2</i>	Complement receptor 2	9.269651	0
<i>Myh2</i>	Myosin, heavy polypeptide 2, skeletal muscle, adult	5.214414	0
<i>Igh-V3609N</i>	Immunoglobulin heavy chain (v3609n non-productive)	37.175365	0
<i>Igh-VX24</i>	Immunoglobulin heavy chain (x24 family)	14.296995	0
<i>Ighv3-2</i>	Immunoglobulin heavy variable 3-2	11.854764	0
<i>Ighv1-34</i>	Immunoglobulin heavy variable 1-34	11.746874	0
<i>Ighv1-62-1</i>	Immunoglobulin heavy variable 1-62-1	7.392181	0
<i>Tnncl</i>	Troponin c, cardiac/slow skeletal	11.283909	0
<i>Trac</i>	T cell receptor alpha constant	11.119307	0
<i>Myh7</i>	Myosin, heavy polypeptide 7, cardiac muscle, beta	25.337723	0
<i>Apol7c</i>	Apolipoprotein L 7c	12.159820	0
<i>Glycam1</i>	Glycosylation dependent cell adhesion molecule 1	35.427801	0
<i>Ankrd2</i>	Ankyrin repeat domain 2 (stretch responsive muscle)	7.473013	0
<i>Ms4a1</i>	Membrane-spanning 4-domains, subfamily A, member 1	8.695355	0
<i>Cd53</i>	CD53 antigen	10.468298	0
<i>Myoz2</i>	Myozenin 2	7.686757	0
<i>Bank1</i>	B cell scaffold protein with ankyrin repeats 1	6.687630	0
<i>Gm13304</i>	Predicted gene 13304	7.324321	0
<i>Gm13304</i>	Predicted gene 13304	7.324321	0
<i>Gm13304</i>	Predicted gene 13304	7.183739	0
<i>Gm13304</i>	Predicted gene 13304	7.324321	0
<i>Gm1987</i>	Predicted gene 1987	7.250950	0
<i>LOC100041504</i>	C-C motif chemokine 21c	6.578415	0
<i>Gm13304</i>	Predicted gene 13304	7.324321	0
<i>Gm13304</i>	Predicted gene 13304	7.183739	0
<i>Gm1987</i>	Predicted gene 1987	8.018598	0
<i>Cxcl13</i>	Chemokine (C-X-C motif) ligand 13	9.521342	0
<i>Tecrl</i>	Trans-2,3-enoyl-coa reductase-like	9.324394	0
<i>Atp2a2</i>	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	8.327278	0
<i>Igkv1-135</i>	Immunoglobulin kappa variable 1-135	10.058547	0
<i>Igkv6-17</i>	Immunoglobulin kappa variable 6-17	18.744884	0
<i>Igkv3-12</i>	Immunoglobulin kappa variable 3-12	10.420662	0
<i>Igkv3-7</i>	Immunoglobulin kappa variable 3-7	10.975806	0

<i>Igkj1</i>	Immunoglobulin kappa joining 1	14.631543	0
<i>Igk-V21</i>	Immunoglobulin kappa chain variable 21 (V21)	6.750012	0
<i>Igkv6-23</i>	Immunoglobulin kappa variable 6-23	15.888819	0
<i>Igkv10-96</i>	Immunoglobulin kappa variable 10-96	16.205201	0
<i>Igkv4-72</i>	Immunoglobulin kappa chain variable 4-72	12.974032	0
<i>Igkv4-70</i>	Immunoglobulin kappa chain variable 4-70	18.687932	0
<i>Igkv4-62</i>	Immunoglobulin kappa variable 4-62	7.552373	0
<i>Igkv4-57-1</i>	Immunoglobulin kappa variable 4-57-1	16.235839	0
<i>Igkv5-48</i>	Immunoglobulin kappa variable 5-48	19.271941	0
<i>Csrp3</i>	Cysteine and glycine-rich protein 3	15.609420	0
<i>Sln</i>	Sarcolipin	8.089946	0
<i>Cd3g</i>	CD3 antigen, gamma polypeptide	12.840638	0
<i>Sell</i>	Selectin, lymphocyte	8.134169	1.91259E-13
<i>Il2rg</i>	Interleukin 2 receptor, gamma chain	6.883322	1.91259E-13
<i>Ctss</i>	Cathepsin S	6.263244	3.60017E-13
<i>Jchain</i>	Immunoglobulin joining chain	8.232525	3.60017E-13
<i>Timd4</i>	T cell immunoglobulin and mucin domain containing 4	7.174956	5.2964E-13
<i>Igkv6-13</i>	Immunoglobulin kappa variable 6-13	8.012570	1.55894E-12
<i>Lmod2</i>	Leiomodin 2 (cardiac)	4.899943	2.0401E-12
<i>Igk-V1</i>	Immunoglobulin kappa chain variable 1 (V1)	7.993681	2.13117E-12
<i>Cd4</i>	CD4 antigen	7.546538	2.13117E-12
<i>Il7r</i>	Interleukin 7 receptor	7.950139	3.06014E-12
<i>Tnnt1</i>	Troponin T1, skeletal, slow	5.871320	3.32395E-12
<i>Pyhin1</i>	Pyrin and HIN domain family, member 1	7.756684	5.96728E-12
<i>Iglv2</i>	Immunoglobulin lambda variable 2	7.651804	6.17046E-12
<i>Tcrb-J</i>	T cell receptor beta, joining region	5.278160	1.31784E-11
<i>Csn1s1</i>	Casein alpha s1	-7.652706	2.26399E-11
<i>H2-Ea-ps</i>	Histocompatibility 2, class II antigen E alpha, pseudogene	4.982432	2.5564E-11
<i>Igkv4-68</i>	Immunoglobulin kappa variable 4-68	6.247916	3.63044E-11
<i>Igkv6-14</i>	Immunoglobulin kappa variable 6-14	8.324335	6.26188E-11
<i>Csn2</i>	Casein beta	-7.331127	7.34889E-11
<i>Ighv9-2</i>	Immunoglobulin heavy variable V9-2	7.341882	7.98299E-11
<i>Ms4a6b</i>	Membrane-spanning 4-domains, subfamily A, member 6B	7.197196	1.07542E-10
<i>Igkv19-93</i>	Immunoglobulin kappa chain variable 19-93	6.199621	1.66024E-10
<i>Tnni1</i>	Troponin I, skeletal, slow 1	5.503445	3.53957E-10
<i>Myl3</i>	Myosin, light polypeptide 3	5.701751	4.96498E-10
<i>Cd209b</i>	CD209b antigen	5.034680	7.14709E-10
<i>Igh-V7183</i>	Immunoglobulin heavy chain (v7183 family)	4.423643	1.26823E-09

<i>Stk17b</i>	Serine/threonine kinase 17b (apoptosis-inducing)	4.588190	1.61325E-09
<i>Cd52</i>	CD52 antigen	6.049832	1.64447E-09
<i>Ly86</i>	Lymphocyte antigen 86	5.631171	2.60724E-09
<i>Dock10</i>	Dedicator of cytokinesis 10	4.793701	3.78062E-09
<i>Gm8995</i>	Predicted gene 8995	5.256454	4.04914E-09
<i>Ighg</i>	Immunoglobulin heavy chain (gamma polypeptide)	5.338132	1.16695E-08
<i>Egln3</i>	Egl-9 family hypoxia-inducible factor 3	4.062182	1.19759E-08
<i>Traj35</i>	T cell receptor alpha joining 35	6.705570	1.24724E-08
<i>Mybpc1</i>	Myosin binding protein c, slow-type	2.901020	1.25686E-08
<i>Slfn2</i>	Schlafen 2	4.487121	1.41127E-08
<i>Lcp1</i>	Lymphocyte cytosolic protein 1	4.184079	2.97426E-08
<i>Myom3</i>	Myomesin family, member 3	4.359900	3.44233E-08
<i>Epsti1</i>	Epithelial stromal interaction 1 (breast)	4.864798	3.85288E-08
<i>Selplg</i>	Selectin, platelet (p-selectin) ligand	4.860636	4.06416E-08
<i>Smtnl1</i>	Smoothelin-like 1	3.995871	5.26356E-08
<i>Tpm3</i>	Tropomyosin 3, gamma	4.086413	8.07949E-08
<i>Prkcb</i>	Protein kinase c, beta	4.793967	8.43315E-08
<i>Rnu3a</i>	U3A small nuclear RNA	3.675371	1.90929E-07
<i>Ighv1-75</i>	Immunoglobulin heavy variable 1-75	4.139883	2.35356E-07
<i>Pax5</i>	Paired box 5	4.831680	3.18778E-07
<i>Igkv4-86</i>	Immunoglobulin kappa variable 4-86	4.246679	4.38824E-07
<i>Ccl5</i>	Chemokine (C-C motif) ligand 5	3.784414	4.82844E-07
<i>Ighv1-62-2</i>	Immunoglobulin heavy variable 1-62-2	4.397474	4.84557E-07
<i>Ighv1-71</i>	Immunoglobulin heavy variable 1-71	4.397474	4.84557E-07
<i>Traj40</i>	T cell receptor alpha joining 40	6.083957	5.07824E-07
<i>Bin2</i>	Bridging integrator 2	4.498675	7.82775E-07
<i>Cybb</i>	Cytochrome b-245, beta polypeptide	3.860613	8.36122E-07
<i>Igkj3</i>	Immunoglobulin kappa joining 3	4.200977	9.03313E-07
<i>Casq2</i>	Calsequestrin 2	3.742455	1.09762E-06
<i>Iglv1</i>	Immunoglobulin lambda variable 1	4.595462	1.58174E-06
<i>LOC101055672</i>	Nuclear body protein SP140-like	3.820298	1.62019E-06
<i>Aspn</i>	Asporin	3.594734	1.80859E-06
<i>LOC102633783</i>	Sp110 nuclear body protein-like	3.957996	1.88054E-06
<i>Lyz1</i>	Lysozyme 1	3.689218	2.53437E-06
<i>Arhgap15</i>	Rho GTPase activating protein 15	4.197892	2.65577E-06
<i>Rnu3b1</i>	U3B small nuclear RNA 1	2.943474	3.12093E-06

<i>Rnu3b1</i>	U3B small nuclear RNA 1	2.943474	3.12093E-06
<i>Rnu3b4</i>	U3B small nuclear RNA 4	2.943474	3.12093E-06
<i>Rnu3b4</i>	U3B small nuclear RNA 4	2.943474	3.12093E-06
<i>Igkv1-117</i>	Immunoglobulin kappa variable 1-117	4.924544	3.13745E-06
<i>Lilrb4a</i>	Leukocyte immunoglobulin-like receptor, subfamily B, member 4A	4.048956	3.20735E-06
<i>Cd22</i>	CD22 antigen	4.356516	3.20735E-06
<i>Fcμr</i>	Fc fragment of IgM receptor	4.248151	3.72714E-06
<i>Ctse</i>	Cathepsin e	3.722766	3.93616E-06
<i>Dock2</i>	Dedicator of cyto-kinesis 2	3.698615	4.06357E-06
<i>Sp100</i>	Nuclear antigen Sp100	3.476896	5.93746E-06
<i>Cd79a</i>	CD79A antigen (immunoglobulin-associated alpha)	3.830705	6.00136E-06
<i>Mybph</i>	Myosin binding protein H	-3.001139	6.62407E-06
<i>Ikzfl</i>	IKAROS family zinc finger 1	4.316494	6.71261E-06
<i>Igkv4-59</i>	Immunoglobulin kappa variable 4-59	5.134593	7.04713E-06
<i>Agbl1</i>	ATP/GTP binding protein-like 1	3.555864	7.04713E-06
<i>Traj21</i>	T cell receptor alpha joining 21	4.012677	7.15757E-06
<i>Actc1</i>	Actin, alpha, cardiac muscle 1	-2.702651	7.15757E-06
<i>Lbh</i>	Limb-bud and heart	3.365440	8.28182E-06
<i>Mpeg1</i>	Macrophage expressed gene 1	3.577967	8.91416E-06
<i>Igkv4-50</i>	Immunoglobulin kappa variable 4-50	4.836053	9.4246E-06
<i>Atp1b1</i>	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	3.017942	1.01881E-05
<i>H2-M2</i>	Histocompatibility 2, m region locus 2	4.329454	1.07827E-05
<i>Cmah</i>	Cytidine monophospho-n-acetylneuraminic acid hydroxylase	3.766801	1.11673E-05
<i>Ikzf3</i>	IKAROS family zinc finger 3	4.393939	1.131E-05
<i>Ralgps2</i>	Ral GEF with PH domain and SH3 binding motif 2	3.866063	1.21918E-05
<i>Igkv4-55</i>	Immunoglobulin kappa variable 4-55	3.617229	1.35831E-05
<i>Igh-VJ558</i>	Immunoglobulin heavy chain (J558 family)	4.327954	1.59541E-05
<i>Gm24411</i>	Predicted gene, 24411 [Source:MGI Symbol;Acc:MGI:5454188]	3.536678	1.7598E-05
<i>Igkv10-94</i>	Immunoglobulin kappa variable 10-94	4.260507	1.95558E-05
<i>Actn2</i>	Actinin alpha 2	2.493989	2.06104E-05
<i>Cd180</i>	CD180 antigen	4.626464	2.20686E-05
<i>Ugcg</i>	UDP-glucose ceramide glucosyltransferase	3.429754	2.20686E-05
<i>Lyz2</i>	Lysozyme 2	3.057866	2.4385E-05
<i>Ighv2-9</i>	Immunoglobulin heavy variable 2-9	3.281249	2.9176E-05
<i>Ighv1-62-3</i>	Immunoglobulin heavy variable 1-62-3	3.879713	3.12877E-05
<i>Gm10717</i>	Predicted gene 10717 [Source:MGI	-3.067450	3.26443E-05

	Symbol;Acc:MGI:3642031]		
<i>Ltb</i>	Lymphotoxin b	3.352646	3.66469E-05
<i>Itgb2</i>	Integrin beta 2	3.275341	3.75636E-05
<i>Igkv4-73</i>	Immunoglobulin kappa variable 4-73	3.521268	4.11459E-05
<i>Lgi1</i>	Leucine-rich repeat lgi family, member 1	4.068198	4.34605E-05
<i>P2ry10</i>	Purinergic receptor p2y, g-protein coupled 10	4.712475	4.36156E-05
<i>Gm24119</i>	Predicted gene, 24119 [source:mgi symbol;acc:mgi:5453896]	2.975052	4.79831E-05
<i>Ptpn22</i>	Protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	4.013887	4.79831E-05
<i>Ighv1-69</i>	Immunoglobulin heavy variable 1-69	4.604007	4.84353E-05
<i>Pip4k2a</i>	Phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	3.246961	4.87833E-05
<i>Nckap11</i>	NCK associated protein 1 like	3.319015	5.04094E-05
<i>Ptpn6</i>	Protein tyrosine phosphatase, non-receptor type 6	3.204957	5.88237E-05
<i>2310075C17</i> <i>Rik</i>	RIKEN cDNA 2310075C17 gene	2.996244	6.34617E-05
<i>Gm23444</i>	Predicted gene, 23444 [Source:MGI Symbol;Acc:MGI:5453221]	2.415221	7.79215E-05
<i>Gm24497</i>	Predicted gene, 24497 [Source:MGI Symbol;Acc:MGI:5454274]	2.415221	7.79215E-05
<i>Gm25939</i>	Predicted gene, 25939 [Source:MGI Symbol;Acc:MGI:5455716]	2.415221	7.79215E-05
<i>Gm23444</i>	Predicted gene, 23444 [Source:MGI Symbol;Acc:MGI:5453221]	2.415221	7.79215E-05
<i>Gm10719</i>	Predicted gene 10719 [Source:MGI Symbol;Acc:MGI:3641690]	-2.964225	7.79215E-05
<i>Traj12</i>	T cell receptor alpha joining 12	3.441697	7.89626E-05
<i>Snord13</i>	Small nucleolar RNA, C/D box 13	2.759410	9.10405E-05
<i>LOC100041034</i>	Sp110 nuclear body protein pseudogene	3.049790	9.77277E-05
<i>Fcgbp</i>	Fc fragment of IgG binding protein	-3.615312	9.98493E-05
<i>Lcp2</i>	Lymphocyte cytosolic protein 2	3.075050	0.000100617
<i>Rnu12</i>	RNA U12, small nuclear	2.843770	0.000104358
<i>Klhl6</i>	Kelch-like 6	3.495927	0.000112613
<i>Ankrd1</i>	Ankyrin repeat domain 1 (cardiac muscle)	2.872695	0.000122828
<i>Cd74</i>	CD74 antigen	2.826957	0.000130769
<i>Ighv1-7</i>	Immunoglobulin heavy variable V1-7	3.206801	0.000133321
<i>Pck1</i>	Phosphoenolpyruvate carboxykinase 1, cytosolic	-2.849344	0.000149194
<i>Ighm</i>	Immunoglobulin heavy constant mu	4.420838	0.000152748

<i>Gm25360</i>	Predicted gene, 25360 [Source:MGI Symbol;Acc:MGI:5455137]	2.381078	0.000194401
<i>Ccl22</i>	Chemokine (C-C motif) ligand 22	3.350961	0.000217941
<i>Taf1d</i>	TATA box binding protein (Tbp)-associated factor, RNA polymerase I, D	2.917272	0.00022316
<i>Cd79b</i>	CD79B antigen	3.397656	0.000261267
<i>Gm25813</i>	Predicted gene, 25813 [Source:MGI Symbol;Acc:MGI:5455590]	2.511858	0.000261267
<i>Gm23927</i>	Predicted gene, 23927 [Source:MGI Symbol;Acc:MGI:5453704]	2.771314	0.000269543
<i>Kctd12</i>	Potassium channel tetramerisation domain containing 12	2.919315	0.00027062
<i>LOC102636558</i>	Component of Sp100-rs-like	3.322214	0.000275081
<i>Hspb7</i>	Heat shock protein family, member 7 (cardiovascular)	2.676810	0.000321287
<i>Traj38</i>	T cell receptor alpha joining 38	3.641670	0.000322536
<i>Iglv3</i>	Immunoglobulin lambda variable 3	3.908649	0.000332243
<i>Trbj1-1</i>	T cell receptor beta joining 1-1	3.891955	0.000347005
<i>Muc15</i>	Mucin 15	-3.774315	0.000352101
<i>Csn3</i>	Casein kappa	-3.708305	0.000352101
<i>Igkv12-46</i>	Immunoglobulin kappa variable 12-46	3.499551	0.00040599
<i>Gm10719</i>	Predicted gene 10719 [Source:MGI Symbol;Acc:MGI:3641690]	-3.235211	0.00041192
<i>Stap1</i>	Signal transducing adaptor family member 1	3.754589	0.000431204
<i>Art2b</i>	ADP-ribosyltransferase 2b	4.133389	0.000436275
<i>Itgal</i>	Integrin alpha L	3.076969	0.000441262
<i>Igkv8-24</i>	Immunoglobulin kappa chain variable 8-24	4.110603	0.000540103
<i>Gm9800</i>	Predicted gene 9800 [Source:MGI Symbol;Acc:MGI:3710580]	2.606294	0.00054366
<i>Cpa3</i>	Carboxypeptidase A3, mast cell	2.769480	0.00054366
<i>Snora3</i>	Small nucleolar RNA, H/ACA box 3	2.565402	0.000596982
<i>H2-DMb2</i>	Histocompatibility 2, class II, locus Mb2	3.155919	0.000690586
<i>Traj27</i>	T cell receptor alpha joining 27	3.768081	0.000724914
<i>Cdh4</i>	Cadherin 4	-2.643226	0.000769449
<i>Ighm</i>	Immunoglobulin heavy constant mu	2.609150	0.000803644
<i>Igkv4-69</i>	Immunoglobulin kappa variable 4-69	3.795987	0.000832927
<i>Man1a</i>	Mannosidase 1, alpha	2.675837	0.00092214
<i>Aoc3</i>	Amine oxidase, copper containing 3	-2.610181	0.000982147
<i>Ms4a4c</i>	Membrane-spanning 4-domains, subfamily A, member 4C	3.569248	0.000983903

<i>Stat4</i>	Signal transducer and activator of transcription 4	3.533126	0.000984191
<i>Dock11</i>	Dedicator of cytokinesis 11	2.789961	0.000984191
<i>Pla2g7</i>	Phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	-2.603766	0.001028025
<i>Lep</i>	Leptin	-2.621096	0.0010592
<i>Cytip</i>	Cytohesin 1 interacting protein	3.446782	0.001074213
<i>Slamf6</i>	SLAM family member 6	3.275000	0.001092862
<i>Enah</i>	Enabled homolog (Drosophila)	2.646976	0.00111811
<i>Ighv7-3</i>	Immunoglobulin heavy variable 7-3	3.895045	0.001134759
<i>Thrsp</i>	Thyroid hormone responsive	-2.587099	0.0011567
<i>Slfn9</i>	Schlafen 9	3.464999	0.0012256
<i>Lef1</i>	Lymphoid enhancer binding factor 1	3.183492	0.001229218
<i>Btla</i>	B and T lymphocyte associated	3.413153	0.001258718
<i>Mical2</i>	Microtubule associated monooxygenase, calponin and LIM domain containing 2	-2.510413	0.001358841
<i>Siglec1</i>	Sialic acid binding Ig-like lectin 1, sialoadhesin	2.928395	0.00144171
<i>Eml4</i>	Echinoderm microtubule associated protein like 4	2.781995	0.00167963
<i>Ighv1-19</i>	Immunoglobulin heavy variable V1-19	3.367330	0.001695767
<i>Actr3</i>	ARP3 actin-related protein 3	2.488222	0.001781265
<i>Tcrb-J</i>	T cell receptor beta, joining region	3.080586	0.001795145
<i>Cd27</i>	CD27 antigen	3.275897	0.001810382
<i>Gbp4</i>	Guanylate binding protein 4	2.815205	0.001955207
<i>Cd84</i>	CD84 antigen	2.883708	0.001965417
<i>BE692007</i>	Expressed sequence BE692007	3.687109	0.002064728
<i>Fhl1</i>	Four and a half LIM domains 1	2.551490	0.002097917
<i>Rac2</i>	RAS-related C3 botulinum substrate 2	2.585754	0.002214744
<i>Fcgr2a</i>	Fc receptor, IgE, low affinity II, alpha polypeptide	3.349603	0.002259893
<i>Srgn</i>	Serglycin	2.498791	0.002340615
<i>Ccr7</i>	Chemokine (C-C motif) receptor 7	2.873163	0.002340615
<i>Ptk2b</i>	PTK2 protein tyrosine kinase 2 beta	2.741604	0.002350974
<i>Hpse</i>	Heparanase	2.700338	0.002399199
<i>Traj20</i>	T cell receptor alpha joining 20	3.597588	0.002402298
<i>Ms4a6c</i>	Membrane-spanning 4-domains, subfamily A, member 6C	3.251015	0.002402298
<i>Apbb1ip</i>	Amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	2.773581	0.002402298
<i>Igkv15-103</i>	Immunoglobulin kappa chain variable 15-103	2.746025	0.002439022
<i>Tespa1</i>	Thymocyte expressed, positive selection associated 1	3.448371	0.002505782
<i>Plcg2</i>	Phospholipase C, gamma 2	2.783982	0.002576994

<i>Vav1</i>	Vav 1 oncogene	2.814786	0.002719009
<i>Gm18853</i>	GTPase, very large interferon inducible 1 pseudogene	2.520037	0.002847865
<i>Serpinb1a</i>	Serine (or cysteine) peptidase inhibitor, clade B, member 1a	2.742953	0.002883344
<i>Angptl4</i>	Angiopoietin-like 4	-2.615778	0.002902851
<i>Igsf6</i>	Immunoglobulin superfamily, member 6	2.910930	0.002999457
<i>Trim59</i>	Tripartite motif-containing 59	3.038133	0.002999564
<i>Mb</i>	Myoglobin	2.275329	0.003007459
<i>Lmcd1</i>	LIM and cysteine-rich domains 1	2.343687	0.003007459
<i>Inpp4b</i>	Inositol polyphosphate-4-phosphatase, type II	2.627672	0.003007459
<i>Gm10267</i>	Predicted gene 10267	3.319325	0.003018581
<i>Ccdc88a</i>	Coiled coil domain containing 88A	2.548326	0.003365085
<i>Wdfy4</i>	WD repeat and FYVE domain containing 4	2.708596	0.003365085
<i>Itga4</i>	Integrin alpha 4	2.557386	0.003365085
<i>Cd3e</i>	CD3 antigen, epsilon polypeptide	2.555924	0.00337812
<i>Gm10718</i>	Predicted gene 10718 [Source:MGI Symbol;Acc:MGI:3642028]	-2.415832	0.003535879
<i>Prg4</i>	Proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein)	2.631609	0.00356826
<i>Pydc4</i>	Pyrin domain containing 4	3.311053	0.003585987
<i>Traj30</i>	T cell receptor alpha joining 30	3.432632	0.003659721
<i>Gm8989</i>	Very large inducible GTPase 1 pseudogene	2.457148	0.003666822
<i>Gm24525</i>	Predicted gene, 24525 [Source:MGI Symbol;Acc:MGI:5454302]	2.497172	0.003733774
<i>Ltf</i>	Lactotransferrin	-3.050276	0.003733774
<i>Gm24588</i>	Predicted gene, 24588 [Source:MGI Symbol;Acc:MGI:5454365]	3.162356	0.003830879
<i>Cd96</i>	CD96 antigen	3.492633	0.003834672
<i>Fasn</i>	Fatty acid synthase	-2.237635	0.004242857
<i>Arhgdib</i>	Rho, GDP dissociation inhibitor (GDI) beta	2.615941	0.004321403
<i>Cfh</i>	Complement component factor h	2.397357	0.004412941
<i>Cyth4</i>	Cytohesin 4	2.452180	0.004929348
<i>Cyfp2</i>	Cytoplasmic FMR1 interacting protein 2	2.555021	0.005254131
<i>Sat1</i>	Spermidine/spermine N1-acetyl transferase 1	2.430874	0.005520293
<i>Igh-V7183</i>	Immunoglobulin heavy chain (V7183 family)	3.430788	0.005555156
<i>Lgals12</i>	Lectin, galactose binding, soluble 12	-2.376099	0.005680479
<i>Gm8979</i>	Very large inducible GTPase 1 pseudogene	2.371328	0.005747562
<i>Csn1s2a</i>	Casein alpha s2-like A	-3.203280	0.005874172
<i>Mir5099</i>	MicroRNA 5099	-1.657036	0.005876739

<i>Prkag3</i>	Protein kinase, AMP-activated, gamma 3 non-catalytic subunit	-2.362444	0.005895163
<i>Lcn2</i>	Lipocalin 2	-2.519697	0.005913239
<i>Igkv5-43</i>	Immunoglobulin kappa chain variable 5-43	3.207857	0.006163646
<i>Akna</i>	AT-hook transcription factor	2.625396	0.006281686
<i>Gm10715</i>	Predicted gene 10715 [Source:MGI Symbol;Acc:MGI:3642376]	-2.351555	0.006347041
<i>Cxcr5</i>	Chemokine (C-X-C motif) receptor 5	2.742678	0.006354229
<i>St3gal5</i>	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	2.379775	0.006500756
<i>Snora7a</i>	Small nucleolar RNA, H/ACA box 7A	2.343346	0.006521848
<i>Igkv4-79</i>	Immunoglobulin kappa variable 4-79	2.546119	0.006547125
<i>Ptpn3</i>	Protein tyrosine phosphatase, non-receptor type 3	2.352541	0.007310712
<i>Dock8</i>	Dedicator of cytokinesis 8	2.459065	0.007723878
<i>Igkv8-21</i>	Immunoglobulin kappa variable 8-21	2.989274	0.008329242
<i>Ifi203</i>	Interferon activated gene 203	2.439668	0.00841883
<i>Rapgef6</i>	Rap guanine nucleotide exchange factor (GEF) 6	2.470144	0.00841883
<i>AI504432</i>	Expressed sequence AI504432	3.251240	0.008540969
<i>Baz1a</i>	Bromodomain adjacent to zinc finger domain 1A	2.446255	0.008631044
<i>Rock1</i>	Rho-associated coiled-coil containing protein kinase 1	2.312855	0.0088963
<i>Fam111a</i>	Family with sequence similarity 111, member A	2.724582	0.0088963
<i>Lyve1</i>	Lymphatic vessel endothelial hyaluronan receptor 1	2.356050	0.009002276
<i>Igkv17-127</i>	Immunoglobulin kappa variable 17-127	3.261849	0.009027763
<i>Arhgap30</i>	Rho GTPase activating protein 30	2.467782	0.009376338
<i>Traj22</i>	T cell receptor alpha joining 22	2.996711	0.010071581
<i>Igkv6-20</i>	Immunoglobulin kappa variable 6-20	2.798250	0.010071581
<i>Cxcr4</i>	Chemokine (C-X-C motif) receptor 4	2.420030	0.010165808
<i>Arhgap25</i>	Rho GTPase activating protein 25	2.625551	0.010440601
<i>6330407A03</i> <i>Rik</i>	RIKEN cDNA 6330407A03 gene	2.778295	0.010508163
<i>Lrrn1</i>	Leucine rich repeat protein 1, neuronal	2.547011	0.010509001
<i>Gm26440</i>	Predicted gene, 26440 [Source:MGI Symbol;Acc:MGI:5456217]	2.271515	0.010746776
<i>Dpp4</i>	Dipeptidylpeptidase 4	2.436162	0.010785965
<i>F8</i>	Coagulation factor VIII	2.822336	0.01094913
<i>Cacng1</i>	Calcium channel, voltage-dependent, gamma subunit 1	-2.242635	0.011240559
<i>Traj2</i>	T cell receptor alpha joining 2	3.174908	0.011240559
<i>Sncg</i>	Synuclein, gamma	-2.273886	0.011378523
<i>Myh1</i>	Myosin, heavy polypeptide 1, skeletal muscle, adult	1.777057	0.011441903

<i>Fcrl1</i>	Fc receptor-like 1	2.774110	0.011441903
<i>Gm17757</i>	GTPase, very large interferon inducible 1 pseudogene	2.315671	0.011441903
<i>Orml</i>	Orosomucoid 1	-2.376931	0.011692644
<i>Bcl11a</i>	B cell CLL/lymphoma 11A (zinc finger protein)	2.791131	0.011820853
<i>Stat1</i>	Signal transducer and activator of transcription 1	2.260442	0.012104993
<i>Ptbp3</i>	Polypyrimidine tract binding protein 3	2.278801	0.012104993
<i>Id2</i>	Inhibitor of DNA binding 2	2.426909	0.012555446
<i>Gm22973</i>	Predicted gene, 22973 [Source:MGI Symbol;Acc:MGI:5452750]	2.609394	0.012571734
<i>Snora74a</i>	Small nucleolar RNA, H/ACA box 74A	2.234853	0.012919013
<i>Hmha1</i>	Histocompatibility (minor) HA-1	2.421129	0.013346186
<i>Tcf7</i>	Transcription factor 7, T cell specific	2.380336	0.01384378
<i>Traj43</i>	T cell receptor alpha joining 43	2.460199	0.014085245
<i>Tnc</i>	Tenascin C	2.536132	0.014119702
<i>Traj36</i>	T cell receptor alpha joining 36	3.175844	0.014229073
<i>Ifi44</i>	Interferon-induced protein 44	2.298990	0.014419417
<i>Gm4759</i>	GTPase, very large interferon inducible 1 pseudogene	3.160680	0.014857094
<i>LOC101055663</i>	Component of Sp100-rs-like	3.163705	0.014909621
<i>Gys2</i>	Glycogen synthase 2	-2.527472	0.015019358
<i>Dnase1l3</i>	Deoxyribonuclease 1-like 3	2.804201	0.015116738
<i>Sim2</i>	Single-minded homolog 2 (Drosophila)	-2.225454	0.015235525
<i>Gpr65</i>	G-protein coupled receptor 65	2.788038	0.015883464
<i>Igkv12-44</i>	Immunoglobulin kappa variable 12-44	2.704946	0.016083404
<i>Aff3</i>	AF4/FMR2 family, member 3	2.413924	0.01616958
<i>Ly6c2</i>	Lymphocyte antigen 6 complex, locus C2	2.323758	0.016384861
<i>Ifi30</i>	Interferon gamma inducible protein 30	2.229639	0.017229862
<i>B3gnt5</i>	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	2.829555	0.017694507
<i>Gm22155</i>	Predicted gene, 22155 [Source:MGI Symbol;Acc:MGI:5451932]	2.212604	0.017815488
<i>Plek</i>	Pleckstrin	2.460634	0.01804354
<i>Spink11</i>	Serine peptidase inhibitor, Kazal type 11	3.049093	0.018146645
<i>Fabp3-ps1</i>	Fatty acid binding protein 3, muscle and heart, pseudogene 1	2.182830	0.018266666
<i>Inpp5d</i>	Inositol polyphosphate-5-phosphatase D	2.507283	0.018856792
<i>Trbv31</i>	T cell receptor beta, variable 31	2.645976	0.019839065
<i>F2r</i>	Coagulation factor II (thrombin) receptor	2.256513	0.020547361
<i>Gm22676</i>	Predicted gene, 22676 [Source:MGI	2.378653	0.020870804

	Symbol;Acc:MGI:5452453]		
<i>Cd8b1</i>	CD8 antigen, beta chain 1	2.698308	0.021186091
<i>Gm20506</i>	Predicted gene 20506	3.068886	0.021451884
<i>Smc4</i>	Structural maintenance of chromosomes 4	2.221293	0.021547268
<i>Rap1b</i>	RAS related protein 1b	2.158666	0.021951174
<i>Ogn</i>	Osteoglycin	2.159092	0.021986785
<i>St6gal1</i>	Beta galactoside alpha 2,6 sialyltransferase 1	2.493384	0.022032063
<i>Pik3ap1</i>	Phosphoinositide-3-kinase adaptor protein 1	2.293355	0.02256013
<i>Elf1</i>	E74-like factor 1	2.206845	0.023460381
<i>LOC1026336</i> 27	Tropomyosin alpha-4 chain pseudogene	2.185222	0.023653378
<i>Kif21b</i>	Kinesin family member 21B	2.402689	0.024154052
<i>Mir703</i>	MicroRNA 703	2.170541	0.024154052
<i>Pdk4</i>	Pyruvate dehydrogenase kinase, isoenzyme 4	1.917657	0.024332586
<i>Plin1</i>	Perilipin 1	-2.159175	0.024544784
<i>Cnn2</i>	Calponin 2	2.208329	0.024903186
<i>Ighv1-43</i>	Immunoglobulin heavy variable V1-43	2.960016	0.025124966
<i>Lepr</i>	Leptin receptor	2.795265	0.026147544
<i>Syk</i>	Spleen tyrosine kinase	2.351310	0.026443134
<i>Scarna8</i>	Small Cajal body-specific RNA 8	2.319912	0.026611121
<i>Cd69</i>	CD69 antigen	2.838945	0.026809801
<i>Klhl34</i>	Kelch-like 34	2.244789	0.027172552
<i>Krt18</i>	Keratin 18	-2.600385	0.027432055
<i>St8sia4</i>	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	2.221501	0.027505724
<i>Ptma</i>	Prothymosin alpha	2.126455	0.027538095
<i>Fyb</i>	FYN binding protein	2.831281	0.027815978
<i>Cxcl12</i>	Chemokine (C-X-C motif) ligand 12	2.134569	0.02892272
<i>Smox</i>	Spermine oxidase	-2.137130	0.029459765
<i>Marco</i>	Macrophage receptor with collagenous structure	2.269029	0.02989193
<i>Rassf2</i>	Ras association (RalGDS/AF-6) domain family member 2	2.266938	0.030419582
<i>Aim2</i>	Absent in melanoma 2	2.843504	0.030732924
<i>Tecr</i>	Trans-2,3-enoyl-CoA reductase	-1.998289	0.030878007
<i>Rasa13</i>	RAS protein activator like 3	2.363967	0.031055549
<i>Ccl8</i>	Chemokine (C-C motif) ligand 8	2.296489	0.031137278
<i>Grap2</i>	GRB2-related adaptor protein 2	2.455046	0.031159485
<i>Pdlim1</i>	PDZ and LIM domain 1 (elfin)	2.137582	0.031159485
<i>Zdhhc20</i>	Zinc finger, DHHC domain containing 20	2.250889	0.031858775
<i>Six2</i>	Sine oculis-related homeobox 2	-2.416577	0.031858775

<i>Bach2</i>	BTB and CNC homology 2	2.437268	0.031858775
<i>Ddx60</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	2.815312	0.031858775
<i>Tmem123</i>	Transmembrane protein 123	2.102186	0.032142539
<i>Rasd2</i>	RASD family, member 2	-2.129021	0.032512135
<i>Gm8369</i>	Predicted gene 8369	2.828927	0.032515215
<i>Gm26384</i>	Predicted gene, 26384 [Source:MGI Symbol;Acc:MGI:5456161]	2.058302	0.032659623
<i>Agpat2</i>	1-acylglycerol-3-phosphate O-acyltransferase 2	-2.113157	0.033084523
<i>Pcd10</i>	Programmed cell death 10	2.248511	0.033084523
<i>Fchsd2</i>	FCH and double SH3 domains 2	2.200689	0.03419107
<i>Ces1d</i>	Carboxylesterase 1D	-2.199751	0.034210236
<i>Vcam1</i>	Vascular cell adhesion molecule 1	2.205598	0.034362706
<i>Aqp4</i>	Aquaporin 4	2.115348	0.037167255
<i>Slamf7</i>	SLAM family member 7	2.618354	0.03718661
<i>Oub2</i>	OTU domain, ubiquitin aldehyde binding 2	-2.179882	0.03718661
<i>Traj44</i>	T cell receptor alpha joining 44	2.316738	0.03718661
<i>Ifi2712a</i>	Interferon, alpha-inducible protein 27 like 2A	-2.092931	0.037446662
<i>Tshr</i>	Thyroid stimulating hormone receptor	-2.207281	0.038586986
<i>Mki67</i>	Antigen identified by monoclonal antibody Ki 67	2.328103	0.038586986
<i>Ciita</i>	Class II transactivator	2.261665	0.03868402
<i>Gm10719</i>	Predicted gene 10719 [Source:MGI Symbol;Acc:MGI:3641690]	-2.038729	0.039130352
<i>Gm23947</i>	Predicted gene, 23947 [Source:MGI Symbol;Acc:MGI:5453724]	2.354442	0.039276033
<i>Rspo3</i>	R-spondin 3	2.468535	0.039368285
<i>Laptm5</i>	Lysosomal-associated protein transmembrane 5	2.396087	0.041412858
<i>Snora73b</i>	Small nucleolar RNA, H/ACA box 73b	2.060844	0.042473778
<i>Gimap3</i>	GTPase, IMAP family member 3	2.287592	0.042473778
<i>Mir675</i>	MicroRNA 675	2.058131	0.042473778
<i>Arhgap11a</i>	Rho GTPase activating protein 11A	2.462272	0.042714463
<i>Gpr174</i>	G protein-coupled receptor 174	2.723874	0.044231361
<i>Itk</i>	IL2 inducible T cell kinase	2.515421	0.044394491
<i>Tceb2</i>	Transcription elongation factor B (SIII), polypeptide 2	-1.906908	0.044394491
<i>Gpr18</i>	G protein-coupled receptor 18	2.344280	0.044472279
<i>Gm26175</i>	Predicted gene, 26175 [Source:MGI Symbol;Acc:MGI:5455952]	2.047417	0.044964432
<i>Crlf3</i>	Cytokine receptor-like factor 3	2.182089	0.04540695
<i>Spib</i>	Spi-B transcription factor (Spi-1/PU.1 related)	2.672787	0.045496053

<i>Apls2</i>	Adaptor-related protein complex 1, sigma 2 subunit	2.084751	0.045534376
<i>Bdh1</i>	3-hydroxybutyrate dehydrogenase, type 1	2.310980	0.045804464
<i>Gm10801</i>	Predicted gene 10801 [Source:MGI Symbol;Acc:MGI:3641656]	-2.825870	0.045880636
<i>Igkv4-78</i>	Immunoglobulin kappa variable 4-78	2.435157	0.045970345
<i>Spinkl</i>	Serine protease inhibitor, Kazal type-like	2.423152	0.046480226
<i>Cetn3</i>	Centrin 3	2.228163	0.046763599
<i>Phf11b</i>	PHD finger protein 11B	2.192398	0.046763599
<i>P3h2</i>	Prolyl 3-hydroxylase 2	2.194877	0.047016456
<i>Acly</i>	ATP citrate lyase	-2.058096	0.047110874
<i>Tmem71</i>	Transmembrane protein 71	2.234226	0.049568619