

SUPPLEMENTAL MATERIAL

Kurnellas et al., <http://www.jem.org/cgi/content/full/jem.20140107/DC1>

Cationic, readily form at all pH			Nonionizable hydrophobic		
<i>Tau 623-628</i>	Ac	V Q I V Y K CONH2 class 1	<i>Amyloid beta A4 protein 29-34</i>	Ac	G A I I G L CONH2 class 6
<i>Tau 623-628 D</i>	Ac	V q i v y k CONH2	<i>Amyloid beta A4 protein 35-40</i>	Ac	M V G G V V CONH2 class 8
<i>Serum amyloid P 213-218</i>	Ac	G Y V I I K CONH2	<i>Amyloid beta A4 protein 35-40 D</i>	Ac	m v g g v v CONH2
<i>Amyloid beta A4 protein 16-21</i>	Ac	K L V F F A CONH2 class 7	<i>Amyloid beta A4 protein 37-42</i>	Ac	G G V V I A CONH2 class 4
Nonionizable polar			<i>Amylin 24-29</i>	Ac	G A I L S S CONH2
<i>Apolipoprotein E 53-58</i>	Ac	S S Q V T Q CONH2	<i>Major prion protein 148-153</i>	Ac	S N Q N F CONH2 class 2
<i>Amylin 28-33</i>	Ac	S S T N V G CONH2 class 1	Anionic/cationic, requires neutralization of charge within interface		
<i>Ig Kappa chain 5-10</i>	Ac	S V S S Y CONH2	<i>HspB5 76-81</i>	Ac	S V N L D V CONH2
			<i>Insulin B chain 11-16</i>	Ac	V E A L Y L CONH2 class 7
			<i>Insulin A chain 12-17</i>	Ac	L Y Q L E N CONH2 class 7
			<i>HspB5 89-94</i>	Ac	L K V K V L CONH2
			<i>Amyloid beta A4 protein 27-32</i>	Ac	N K G A I I CONH2 class 7

Figure S1. Hexameric, amyloidogenic peptides segregated by composition and their propensity to form fibrils. Those peptides whose crystal structure has been published (Sawaya et al., 2007; Eisenberg and Jucker, 2012) are in italics with their denoted classes, with the hydrophobic amino acids highlighted in light gray, and acidic residues and basic amino acids in dark gray. Those peptides shown to be effective therapeutics for active EAE are listed in a bold font. D-amino acids are listed in lower case.

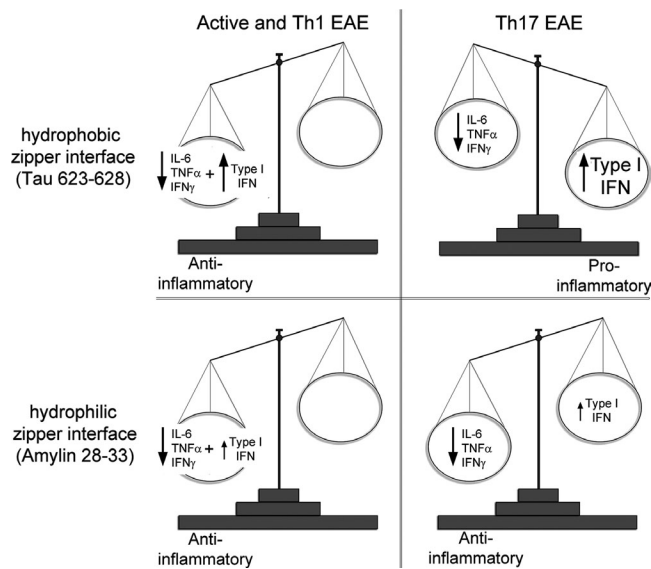


Figure S2. Schematic depiction of the relationship between the two pathways that are induced by the amyloid fibrils composed of the hexapeptides.

REFERENCES

Eisenberg, D., and M. Jucker. 2012. The amyloid state of proteins in human diseases. *Cell*. 148:1188–1203. <http://dx.doi.org/10.1016/j.cell.2012.02.022>
Sawaya, M.R., S. Sambashivan, R. Nelson, M.I. Ivanova, S.A. Sievers, M.I. Apostol, M.J. Thompson, M. Balbirnie, J.J. Wiltzius, H.T. McFarlane, et al. 2007. Atomic structures of amyloid cross- β spines reveal varied steric zippers. *Nature*. 447:453–457. <http://dx.doi.org/10.1038/nature05695>

Table S1. NF- κ B and AP-1 pathways are inhibited when symptoms of EAE are reduced. Genes (65) that are part of the NF- κ B and/or AP-1 pathways (Ingenuity pathways) whose expression was reduced greater than twofold in PBCs from mice with EAE treated with Tau 623-628 compared with PBS-treated animals. The order is the same as in the heat map in Fig. 1 B.

Gene Symbol	Description	Probe	fold change day 3	fold change day 10
Ccl7	chemokine (C-C motif) ligand 7	A_51_P436652	2.07	-29.47
Tnfaip3	tumor necrosis factor, alpha-induced protein 3	A_55_P2053838	-1.74	-9.78
Ccl2	chemokine (C-C motif) ligand 2	A_51_P286737	1.49	-13.87
Saa3	serum amyloid A3	A_55_P1953169	-2.72	-8.74
Ccr2	chemokine (C-C motif) receptor 2	A_51_P245989	-1.06	-10.16
Myb	myeloblastosis oncogene	A_55_P2017826	-1.19	-2.76
Thbs1	thrombospondin 10]	A_55_P2017636	-2.07	-3.63
Camp	cathelicidin antimicrobial peptide	A_55_P2039699	1.20	-2.95
Camp	cathelicidin antimicrobial peptide	A_55_P2158102	1.58	-3.35
Cxcl10	chemokine (C-X-C motif) ligand 10	A_55_P2016462	1.98	-6.57
Fcgr1	Fc receptor, IgG, high affinity I	A_55_P2008740	1.39	-5.39
Tmpt	thymopoietin	A_52_P387564	-1.15	-3.87
Mmp8	matrix metalloproteinase 8	A_51_P231320	-2.57	-3.15
Irg1	immunoresponsive gene 1	A_51_P123625	-1.17	-8.28
Lgals3	lectin, galactose binding, soluble 3	A_55_P2171116	-1.24	-3.31
Anxa1	annexin A1 (Anxa1), [NM_010730	A_66_P120567	-1.31	-3.09
Cks1b	CDC28 protein kinase 1b	A_51_P227004	-2.33	-3.00
Icam1	intercellular adhesion molecule 1	A_52_P613241	1.07	-3.75
Ltbp1	latent transforming growth factor beta binding protein 1	A_55_P1973033	1.84	-6.18
Cd24a	CD24a antigen	A_52_P244193	1.18	-2.79
Eif3a	eukaryotic translation initiation factor 3, subunit A	A_52_P524895	-1.38	-2.77
Csf2ra	colony stimulating factor 2 receptor, alpha	A_51_P341465	-1.08	-3.25
Traf3	TNF receptor-associated factor 3	A_55_P2092968	1.35	-2.74
Icos	inducible T-cell co-stimulator	A_55_P1991773	1.05	-3.06
Ccl4	chemokine (C-C motif) ligand 4	A_51_P509573	-1.85	-4.28
Cd44	CD44 antigen	A_55_P2166488	1.40	-2.89
Cd68	CD68 antigen	A_55_P2067583	3.66	-3.32
Ccna2	cyclin A2	A_51_P481920	-1.09	-2.81
Serpine1	serine (or cysteine) peptidase inhibitor, clade E	A_55_P2119257	-1.78	-3.70
Plk1	polo-like kinase 1	A_51_P344566	1.22	-3.15
Cxcr7	chemokine (C-X-C motif) receptor 7	A_52_P675395	-4.58	-3.94
Tlr13	toll-like receptor 13	A_55_P2048279	-1.46	-2.88
Ifng	interferon gamma	A_52_P68893	2.18	-18.89
Birc5	baculoviral IAP repeat-containing 5	A_55_P1983773	1.32	-2.89
Mmp7	matrix metalloproteinase 7	A_51_P426096	-4.88	-3.20
Tnfsf10	tumor necrosis factor superfamily, member 10	A_55_P2018017	2.17	-5.01
Vim	vimentin	A_51_P392687	-1.90	-2.81
Traf1	TNF receptor-associated factor 1	A_51_P343833	-3.02	-4.80
Cxcl9	chemokine (C-X-C motif) ligand 9	A_55_P1977038	2.07	-8.44
Ptpro	protein tyrosine phosphatase, receptor type, O	A_55_P2227355	-2.61	-3.06
Il11	interleukin 11	A_51_P267783	-1.45	-2.88
Gzmb	granzyme B	A_51_P333274	-1.23	-3.87
FasL	Fas ligand	A_55_P2016114	1.28	-3.19
Nos2	nitric oxide synthase 2, inducible	A_55_P2158741	1.21	-16.45
Cd40	CD40 antigen	A_55_P2036693	1.25	-2.86
Tnf	tumor necrosis factor	A_51_P385099	-1.45	-4.70
Cdc20	cell division cycle 20 homolog	A_55_P1996946	-1.02	-4.01
Serpina3g	serine (or cysteine) peptidase inhibitor	A_51_P326191	1.09	-4.29
Ccl3	chemokine (C-C motif) ligand 3	A_51_P140710	-1.29	-3.08
Foxm1	forkhead box M1	A_55_P2163428	1.97	-3.23
Ccl12	chemokine (C-C motif) ligand 12	A_55_P1984556	2.21	-2.80
Cxcl5	chemokine (C-X-C motif) ligand 5	A_55_P1990032	1.92	-3.37
Tap1	transporter 1, ATP-binding cassette, sub-family B	A_51_P100327	2.08	-4.96
Gsta1	glutathione S-transferase, alpha 1	A_55_P2032946	-3.22	-10.84
Cd274	CD274 antigen	A_51_P248666	1.77	-6.30
Col24a1	collagen, type XXIV, alpha 1	A_51_P408430	1.18	-2.81
Krt19	keratin 19	A_51_P356642	-1.49	-2.80
Socs1	suppressor of cytokine signaling 1	A_51_P279606	-1.38	-7.01
Serpib9	serine (or cysteine) peptidase inhibitor	A_55_P2134246	1.48	-2.72
Cxcl9	chemokine (C-X-C motif) ligand 9	A_51_P461665	1.65	-5.84
Il22	interleukin 22	A_55_P2199202	1.79	-3.01
Ccl5	chemokine (C-C motif) ligand 5	A_52_P638459	-1.60	-3.00
Foxp3	forkhead box P3	A_55_P2032703	1.74	-2.90
Nod2	nucleotide-binding oligomerization domain containing 2	A_55_P2359797	1.08	-2.79
Cav3	caveolin 3	A_51_P255304	1.57	-3.39
Cyp2c55	cytochrome P450, family 2, subfamily c, polypeptide 55	A_51_P447785	-2.36	-3.25

Table S2. Expression of a set of neutrophil genes is inhibited prior to reduction of symptoms. Neutrophil genes (Ingenuity pathways) whose expression was reduced greater than two fold in PBCs from mice with EAE treated with three daily injections of Tau 623-628 compared with PBS-treated animals. The order is the same as in the heat map in Fig. 1 D.

GeneSymbol	Description	ProbeName	Fold change day 3
Defa23	defensin, alpha, 23	A_55_P2104071	-454.18
Defa1	defensin, alpha 1	A_55_P1999108	-357.22
Defa3	defensin, alpha, 3	A_55_P2064913	-322.02
Chgb	chromogranin B	A_51_P191669	-256.82
Defa3	defensin, alpha, 3	A_55_P2077649	-152.20
Defa-rs1	defensin, alpha, related sequence 1	A_55_P1979007	-136.23
Defa3	defensin, alpha, 3	A_55_P1961410	-90.35
Npy	neuropeptide Y	A_51_P454873	-60.58
Zg16	zymogen granule protein 168]	A_51_P140429	-51.93
Defa1	defensin, alpha 1	A_55_P1999110	-47.66
Reg3g	regenerating islet-derived 3 gamma	A_51_P354126	-36.99
Reg3b	regenerating islet-derived 3 beta	A_51_P169671	-27.13
Chga	chromogranin A	A_51_P358316	-24.26
Defa21	defensin, alpha, 21	A_55_P1971928	-20.87
Scg2	secretogranin II	A_55_P1992490	-20.56
Defa23	defensin, alpha, 23	A_52_P476535	-10.86
Cpe	carboxypeptidase E	A_55_P2024704	-9.10
Defa-rs2	defensin, alpha, related sequence 2	A_55_P2018869	-8.63
Cd14	CD14 antigen	A_51_P172853	-6.34
Arg2	arginase type II	A_52_P374897	-5.60
Cpe	carboxypeptidase E	A_55_P2025038	-5.15
Try4	trypsin 4]	A_55_P2101290	-5.00
Mmp7	matrix metalloproteinase 7	A_51_P426096	-4.88
Prss2	protease, serine, 2	A_51_P418901	-3.78
Cxcl13	chemokine (C-X-C motif) ligand 13	A_51_P378789	-3.76
Gbp1	guanylate binding protein 1	A_55_P2097219	-3.76
Fpr2	formyl peptide receptor 2	A_51_P288138	-3.55
Il1r2	interleukin 1 receptor, type II	A_51_P470079	-3.53
Id1	inhibitor of DNA binding 1	A_55_P2052563	-3.40
Ppap2a	phosphatidic acid phosphatase type 2A	A_55_P2236291	-3.40
Cd38	CD38 antigen	A_66_P101835	-3.23
Vgf	VEGF nerve growth factor inducible	A_55_P2085060	-3.14
Maff	v-maf musculoaponeurotic fibrosarcoma oncogene	A_52_P608322	-3.13
Fpr1	formyl peptide receptor 1	A_51_P312485	-2.81
Tlr7	toll-like receptor 7	A_55_P2129047	-2.80
Saa3	serum amyloid A 3	A_55_P1953169	-2.72
Ripk1	receptor (TNFRSF)-interacting serine-threonine kinase 1	A_52_P174775	-2.59
Gp49a	glycoprotein 49 A	A_55_P2063736	-2.58
Rac1	RAS-related C3 botulinum substrate 1]	A_51_P513254	-2.58
Mmp8	matrix metalloproteinase 8	A_51_P231320	-2.57
Nrgn	neurogranin	A_55_P2172470	-2.56
Aldh1a2	aldehyde dehydrogenase family 1	A_52_P58145	-2.54
Stfa2l1	stefin A2 like 1	A_52_P398925	-2.53
Clca3	chloride channel calcium activated 3	A_51_P422751	-2.45
Aplp1	amyloid beta (A4) precursor-like protein 1	A_55_P1991605	-2.45
Bcl10	B-cell leukemia/lymphoma 10	A_51_P209527	-2.44
Pcsk5	proprotein convertase subtilisin/kexin type 5	A_52_P544043	-2.41
Ccl17	chemokine (C-C motif) ligand 17	A_51_P114462	-2.38
Scg5	secretogranin V	A_55_P1981929	-2.34
Apcs	serum amyloid P-component	A_51_P354165	-2.24
Bmp1	bone morphogenetic protein 1	A_55_P2006698	-2.24
Nr4a1	nuclear receptor subfamily 4, group A, member 1	A_51_P239654	-2.21
Itgb2	integrin beta 2	A_51_P262208	-2.19
Cd83	CD83 antigen	A_51_P199135	-2.19
Ctsk	cathepsin K2]	A_55_P1961335	-2.16
Procr	protein C receptor, endothelial	A_51_P382152	-2.15
Cth	cystathionase	A_55_P1959923	-2.13
Ear2	eosinophil-associated, ribonuclease A family, member 2	A_55_P1952618	-2.12
Fos	FBJ osteosarcoma oncogene	A_52_P262219	-2.11
Rgs1	regulator of G-protein signaling 1	A_51_P260683	-2.09
Cd69	CD69 antigen	A_51_P181286	-2.07
Jag1	jagged 1	A_52_P634090	-2.04
Rhob	ras homolog gene family, member B	A_52_P89567	-2.04
Relb	avian reticuloendotheliosis viral (v-rel) oncogene related B	A_55_P2168736	-2.04
Amy1	amylase 1, salivary]	A_55_P1983418	-2.03
Ctss	cathepsin S	A_55_P2024888	-2.00

Table S3. Gene expression patterns consistent with activation of type 1 IFN pathway before reduction of symptoms. Genes that are part of the type 1 IFN pathway (Ingenuity pathways) whose expression was increased or reduced greater than two fold, consistent with the activation of the pathway, in PBCs from mice with EAE treated with three daily injections of Tau 623-628 compared with PBS-treated animals. The order is the same as in the heat map in Fig. 1 E.

GeneSymbol	Description	ProbeName	Prediction	Fold Change
Ifnab	interferon alpha B	A_55_P2030077	Activated	12.45
Ifit1	interferon-induced protein with tetratricopeptide repeats 1]	A_51_P327751	Activated	9.61
Ifit2	interferon-induced protein with tetratricopeptide repeats 2	A_51_P161021	Activated	7.91
Oasl1	2'-5' oligoadenylate synthetase-like 1	A_55_P2086433	Activated	6.32
Gas7	growth arrest specific 7	A_55_P2057537	Activated	6.30
Sifn10-ps	schlafen 10, pseudogene	A_55_P2135200	Activated	5.86
Cmpk2	cytidine monophosphate (UMP-CMP) kinase 2	A_55_P2158404	Activated	5.67
Rasa1	RAS p21 protein activator 1	A_55_P1968778	Affected	5.61
Itgam	integrin alpha M	A_55_P1977934	Activated	5.43
Mx1	myxovirus (influenza virus) resistance 1]	A_55_P2118441	Activated	5.42
Ifit3	interferon-induced protein with tetratricopeptide repeats 3	A_51_P359570	Activated	5.15
H2-Q10	histocompatibility 2, Q region locus 10	A_55_P2037343	Activated	4.71
Itgam	integrin alpha M	A_55_P1977926	Activated	4.68
Zbp1	Z-DNA binding protein 1	A_66_P139683	Activated	4.53
Dhx58	DEXH (Asp-Glu-X-His) box polypeptide 58	A_52_P223809	Activated	4.20
Ifi44	interferon-induced protein 44	A_51_P487690	Activated	3.92
Aim2	absent in melanoma 2	A_55_P2080130	Activated	3.83
Usp18	ubiquitin specific peptidase 18	A_55_P2114953	Activated	3.82
Ly6i	lymphocyte antigen 6 complex, locus I	A_55_P2087118	Activated	3.71
Muc4	mucin 4	A_55_P2029603	Activated	3.65
Hbb-bh1	hemoglobin Z, beta-like embryonic chain	A_55_P2005828	Affected	3.45
B4gal5	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5	A_51_P324535	Activated	3.38
Sort1	sortilin-related receptor, LDLR class A repeats-containing	A_55_P2151609	Affected	3.24
Rtp4	receptor transporter protein 4	A_51_P304170	Activated	3.24
Cdh11	cadherin 11	A_55_P2181356	Affected	3.22
Ahnak	AHNAK nucleoprotein (desmoyokin)	A_55_P2153621	Activated	3.22
Ifi27l2a	interferon, alpha-inducible protein 27 like 2A	A_52_P90363	Activated	3.17
Rarb	retinoic acid receptor, beta	A_55_P1962154	Affected	3.09
Oas1a	2'-5' oligoadenylate synthetase 1A	A_55_P1998943	Activated	3.08
Nr3c1	nuclear receptor subfamily 3, group C	A_52_P254174	Activated	2.78
Zbp1	Z-DNA binding protein 1	A_55_P1994042	Activated	2.75
Casp3	caspase 3	A_52_P117576	Activated	2.75
Rsad2	radical S-adenosyl methionine domain containing 2	A_52_P670026	Activated	2.67
Usp8	ubiquitin specific peptidase 8	A_55_P2006950	Activated	2.63
Oasl2	2'-5' oligoadenylate synthetase-like 2	A_51_P387123	Activated	2.61
Il18r1	interleukin 18 receptor 1	A_51_P505617	Activated	2.59
Ms4a4c	membrane-spanning 4-domains, subfamily A, member 4C]	A_66_P106388	Activated	2.54
Pyhin1	pyrin and HIN domain family, member 1	A_55_P1974178	Activated	2.54
Ptges	prostaglandin E synthase]	A_55_P1974189	Affected	2.53
Sifn4	schlafen 40]	A_51_P183812	Activated	2.53
Uba7	ubiquitin-like modifier activating enzyme 7	A_55_P2026233	Activated	2.53
Plag1	pleiomorphic adenoma gene 1	A_55_P2030025	Affected	2.51
Il15	interleukin 15	A_52_P15461	Activated	2.44
Sp110	Sp110 nuclear body protein	A_55_P2037235	Activated	2.42
Tert	telomerase reverse transcriptase	A_51_P433778	Inhibited	2.40
Gbp11	guanylate binding protein 11	A_55_P2042813	Activated	2.39
Fgf1	fibroblast growth factor 1	A_52_P538673	Affected	2.38
Adar	adenosine deaminase, RNA-specific	A_52_P183181	Activated	2.37
Itgb1	integrin beta 1	A_52_P351816	Activated	2.36
Jun	Jun oncogene	A_55_P2158990	Affected	2.30
Pyhin1	pyrin and HIN domain family, member 1	A_55_P2035509	Activated	2.29
Irf1	interferon regulatory factor 1	A_55_P2000062	Activated	2.26
Birc5	baculoviral IAP repeat-containing 5	A_55_P1983768	Affected	2.24
Prkce	protein kinase C, epsilon	A_55_P2007944	Activated	2.24
Mmp3	matrix metalloproteinase 3	A_51_P255699	Inhibited	2.23
Pomc	pro-opiomelanocortin-alpha	A_52_P671543	Inhibited	2.23
Typr1	tyrosinase-related protein 1]	A_55_P1953573	Affected	2.23
Ctla4	cytotoxic T-lymphocyte-associated protein 4	A_55_P2147712	Activated	2.23
Cdkn1a	cyclin-dependent kinase inhibitor 1A	A_55_P1976204	Activated	2.22
Cdkn1a	cyclin-dependent kinase inhibitor 1A	A_51_P363947	Activated	2.22
Ccl12	chemokine (C-C motif) ligand 12	A_55_P1984556	Activated	2.21

Table S3 (cont.)

	Description	ProbeName	Prediction	Fold Change
Cxcl11	chemokine (C-X-C motif) ligand 11	A_55_P2160387	Activated	2.20
Ifng	interferon gamma	A_52_P68893	Activated	2.19
Itga2b	integrin alpha 2b	A_52_P459564	Activated	2.18
Il2	interleukin 2	A_55_P2367803	Activated	2.18
Oas3	2'-5' oligoadenylate synthetase 3	A_51_P472867	Activated	2.18
Tnfsf10	tumor necrosis factor (ligand) superfamily, member 10]	A_55_P2018017	Activated	2.17
Tap2	transporter 2, ATP-binding cassette, sub-family B	A_55_P2017645	Activated	2.16
Emid1	EMI domain containing 1	A_55_P1954277	Affected	2.15
Vcam1	vascular cell adhesion molecule 1	A_52_P520495	Activated	2.15
Prl	prolactin	A_55_P2160168	Activated	2.15
Psmb9	proteasome (prosome, macropain) subunit, beta type 9	A_51_P369803	Activated	2.15
Stat1	signal transducer and activator of transcription 1	A_55_P1955906	Activated	2.14
Cd8a	CD8 antigen, alpha chain	A_52_P443334	Activated	2.12
Ccr1	chemokine (C-C motif) receptor 1	A_52_P616356	Activated	2.10
Tap1	transporter 1, ATP-binding cassette, sub-family B	A_51_P100327	Activated	2.08
Ccl7	chemokine (C-C motif) ligand 7	A_51_P436652	Activated	2.07
Cxcl9	chemokine (C-X-C motif) ligand 9	A_55_P1977038	Activated	2.07
Crem	cAMP responsive element modulator	A_55_P2044257	Activated	2.06
Oas2	2'-5' oligoadenylate synthetase 2	A_55_P2019719	Activated	2.06
Klrl1	killer cell lectin-like receptor subfamily K, member 1	A_52_P272778	Activated	2.05
Il2ra	interleukin 2 receptor, alpha chain	A_55_P1980796	Activated	2.04
Ifna4	interferon alpha 4	A_51_P355829	Activated	2.04
F3	coagulation factor III	A_65_P08971	Activated	2.04
Cish	cytokine inducible SH2-containing protein	A_51_P470715	Affected	2.02
Cyp2d34	cytochrome P450, family 2, subfamily d, polypeptide 34	A_55_P2041350	Affected	2.02
Csn2	casein beta	A_51_P446395	Affected	2.02
Nt5c3	5'-nucleotidase, cytosolic III	A_55_P2035504	Inhibited	-2.00
F13b	coagulation factor XIII, beta subunit	A_51_P113205	Affected	-2.02
Sap30	sin3 associated polypeptide	A_51_P432199	Inhibited	-2.07
Wars	tryptophanyl-tRNA synthetase	A_55_P2082902	Inhibited	-2.08
Mrc1	mannose receptor, C type 1	A_55_P1988108	Inhibited	-2.08
Fos	FBJ osteosarcoma oncogene	A_52_P262219	Inhibited	-2.11
Ly96	lymphocyte antigen 96	A_51_P476601	Inhibited	-2.12
Il1r1	interleukin 1 receptor, type I	A_51_P271503	Affected	-2.13
Mcl1	myeloid cell leukemia sequence 1	A_52_P93933	Inhibited	-2.13
Runx1	runt related transcription factor 1	A_55_P2183438	Inhibited	-2.15
Topbp1	topoisomerase (DNA) II binding protein 1	A_51_P302651	Inhibited	-2.16
Rnasel	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	A_51_P377760	Inhibited	-2.18
Cd83	CD83 antigen	A_51_P199135	Inhibited	-2.19
Pdcd2	programmed cell death 2	A_51_P456187	Inhibited	-2.19
Sgsm3	small G protein signaling modulator 3	A_52_P351418	Affected	-2.20
Slc6a4	solute carrier family 6 (neurotransmitter transporter, serotonin)	A_55_P2074942	Affected	-2.24
Serpina3n	serine (or cysteine) peptidase inhibitor, clade A	A_51_P159453	Affected	-2.34
Irf5	interferon regulatory factor 5	A_51_P346668	Affected	-2.37
Il18r1	interleukin 18 receptor 1	A_55_P2092492	Affected	-2.40
Casp6	caspase 6	A_51_P215922	Inhibited	-2.41
Itgam	integrin alpha M	A_55_P1977929	Affected	-2.52
Ripk1	receptor (TNFRSF)-interacting serine-threonine kinase 1	A_52_P174775	Inhibited	-2.59
Csf2rb	colony stimulating factor 2 receptor, beta	A_52_P52618	Affected	-2.65
Nampt	nicotinamide phosphoribosyltransferase	A_51_P387235	Inhibited	-2.67
Ccr5	chemokine (C-C motif) receptor 5	A_52_P578732	Inhibited	-2.74
Tlr7	toll-like receptor 7	A_55_P2129047	Inhibited	-2.80
Tmpo	thymopoietin	A_65_P10450	Inhibited	-2.87
Traf1	TNF receptor-associated factor 1]	A_51_P343833	Inhibited	-3.02
Pim2	proviral integration site 2	A_52_P608255	Inhibited	-3.06
Cd38	CD38 antigen	A_66_P101835	Inhibited	-3.23
Cyp2c38	cytochrome P450, family 2, subfamily c, polypeptide 38	A_52_P468564	Affected	-3.40
Cyp4a31	cytochrome P450, family 4, subfamily a, polypeptide 310]	A_55_P2024033	Affected	-3.67
Auts2	autism susceptibility candidate 2	A_51_P398191	Inhibited	-3.69
Pim1	proviral integration site 1	A_52_P530291	Inhibited	-3.75
Gbp1	guanylate binding protein 1	A_55_P2097219	Inhibited	-3.76
Tlr1	toll-like receptor 1	A_51_P495581	Inhibited	-3.79
Arg2	arginase type II	A_52_P374897	Inhibited	-5.61
Cd14	CD14 antigen	A_51_P172853	Inhibited	-6.35