

Genes differentially expressed in the PLN of 5 weeks old NOD mice according to E-IAA sub phenotype and adjusted *P*-values.

A. Genes up-regulated between E-IAA positive and negative PaLN

Entrez ID	Affymetrix Probeset	Gene name	Description	Log2 change	Fold change	Adj <i>p</i> -Value
19752	98041_at	Rnase1	Ribonuclease, RNase A family, 1 (pancreatic)	6,55	93,56	0
18946	92601_at	Pnliprp1	pancreatic lipase related protein 1	6,14	70,76	0
100040233	93208_at	Prss3	protease, serine, 3	6,09	68,26	0
19693	95786_at	Reg2	regenerating islet-derived 2	5,87	58,44	0
68416	95509_at	Sycn	syncollin	5,84	57,36	0
19692	162312_f_at, 160213_at	Reg1	regenerating islet-derived 1	5,83	57,02	0
109959	97523_i_at; 97524_f_at	Amy2-1	amylase 2-1, pancreatic	5,82	56,49	0
22074	101043_f_at	Try4	trypsin 4	5,73	52,90	0
22072	92873_f_at	Prss2	protease, serine, 2	5,61	48,73	0
16334	100150_f_at	Ins2	insulin II	5,52	45,73	0
18489	161890_f_at, 96009_s_at	Pap	pancreatitis-associated protein	5,51	45,63	0
12945	99479_at	Dmbt1	deleted in malignant brain tumors 1	5,37	41,28	0
12613	99939_at	Cel	carboxyl ester lipase	5,33	40,20	0
21785	93302_at	Tff2	trefoil factor 2 (spasmolytic protein 1)	5,32	39,97	0
16612	100061_f_at	Klk1	kallikrein 1	5,24	37,92	0
109901	93783_at	Ela1	elastase 1, pancreatic	5,13	34,91	0
109791	160132_at	Clps	colipase, pancreatic	5,09	33,99	0
109660	160744_r_at	Ctrl	chymotrypsin-like	5,09	33,97	0
66473	160421_r_at	Ctrb1	chymotrypsinogen B1	4,87	29,23	0
436522	101338_f_at	Try10	trypsin 10	4,83	28,39	0
19694	103954_at; 161642_f_at	Reg3a	regenerating islet-derived 3 alpha	4,81	28,09	0
13646	101289_f_at	Klk1b22	kallikrein 1-related peptidase b22	4,43	21,55	0
13648	94716_f_at	Klk1b9	kallikrein 1-related peptidase b9	4,30	19,71	0
16622	104495_f_at	Klk1b5	kallikrein 1-related peptidase b5	4,12	17,34	0
16333	97658_f_at, 97659_r_at	Ins1	insulin I	4,03	16,28	0
11722	101058_at	Amy1	amylase 1, salivary	3,77	13,63	0
16623	95775_f_at	Klk1b1	kallikrein 1-related peptidase b1	3,71	13,04	0
12425	92252_at	Cckar	cholecystokinin A receptor	3,57	11,91	0
13706	94037_at	Ela2A	elastase 2A	3,56	11,80	0
16433	162196_f_at	Cuzd1	CUB and zona pellucida-like domains 1	3,55	11,73	0
18947	160070_at	Pnliprp2	pancreatic lipase-related protein 2	3,48	11,15	0
13647	161637_f_at	Egfbp2	epidermal growth factor binding protein type B	3,36	10,26	0

18478	95407_at	Pah	phenylalanine hydroxylase	3,28	9,73	0
18778	160120_i_at	Pla2g1b	phospholipase A2, group IB, pancreas	3,28	9,69	0
11657	94777_at	Alb	albumin	2,91	7,52	0
17748	93573_at	Mt1	metallothionein 1	2,77	6,81	0
56312	160108_at	Nupr1	nuclear protein 1	2,70	6,49	0
17750	101561_at	Mt2	metallothionein 2	2,61	6,11	0
20750	97519_at	Spp1	secreted phosphoprotein 1	2,51	5,68	0
17829	102918_at	Muc1	mucin 1, transmembrane	2,39	5,23	0
14590	93575_at	Ggh	gamma-glutamyl hydrolase	2,25	4,76	0
14570	102677_at	Arhgdig	Rho GDP dissociation inhibitor (GDI) gamma	1,95	3,85	0
69071	95137_at	Tmem97	transmembrane protein 97	1,92	3,78	1,5E-10
16427	98467_at	Itih4	inter alpha-trypsin inhibitor, heavy chain 4	1,90	3,73	0
14711	96828_at	Gnmt	glycine N-methyltransferase	1,86	3,62	0
16615	100719_f_at	Klk1b16	kallikrein 1-related peptidase b16	1,78	3,44	0
13112	101638_s_at	Cyp3a11	cytochrome P450, family 3, subfamily a, polypeptide 11	1,78	3,42	0,00637
11727	94392_f_at	Ang	angiogenin, ribonuclease, RNase A family, 5	1,77	3,42	3,1E-11
13180	99056_at	Pcbd1	pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 1	1,75	3,37	6,8E-13
16668	94270_at	Krt18	keratin 18	1,66	3,15	0
66120	97964_at	Fkbp11	FK506 binding protein 11	1,64	3,11	1,2E-09
14473	99197_at	Gc	group specific component	1,62	3,07	0,00096
15130	103534_at; 101869_s_at	Hbb-b2; Hbb-b1	hemoglobin, beta adult minor chain	1,59	3,02	1,4E-09
11625	99862_at	Ahsg	alpha-2-HS-glycoprotein	1,59	3,00	0,00807
110257	94781_at; 162457_f_at	Hba-a1 / Hba-a2	hemoglobin alpha, adult chain 1	1,49	2,82	9,9E-14
14161	101553_at	Fga	fibrinogen, alpha polypeptide	1,41	2,66	0,00035
100041156	103562_f_at	Gv-1	murine leukemia retrovirus	1,40	2,64	0,00647
14431	101408_at	Gamt	guanidinoacetate methyltransferase	1,33	2,52	2,4E-06
53322	102197_at	Nucb2	nucleobindin 2	1,31	2,48	3,8E-05
12931	161046_at	Crlf1	cytokine receptor-like factor 1	1,29	2,45	2,2E-05
435889	101339_at	Prss3	protease, serine, 3	1,28	2,43	3,4E-05
110695	97450_s_at	Aldh7a1	aldehyde dehydrogenase family 7, member A1	1,27	2,42	2,7E-05
26912	160628_at	Gcat	glycine C-acetyltransferase (2-amino-3-ketobutyrate-coenzyme A ligase)	1,27	2,40	0,0004
258051	102169_at	Olftr93	olfactory receptor 93	1,21	2,31	3,7E-05

16425	104519_at	Itih2	inter-alpha trypsin inhibitor, heavy chain 2	1,21	2,31	0,00111
20338	92871_at	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	1,18	2,27	2,3E-06
15451	160639_at	Hpn	hepsin	1,17	2,25	1,6E-06
17436	101082_at	Mod1	malic enzyme, supernatant	1,17	2,25	9E-07
12350	160375_at	Car3	carbonic anhydrase 3	1,16	2,23	0,00377
12260	162276_i_at	C1qb	complement component 1, q subcomponent, beta polypeptide	1,16	2,23	0,00035
67092	96336_at	Gatm	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	1,14	2,20	0,00416
67475	103531_f_at	Ero1lb	ERO1-like beta (S. cerevisiae)	1,13	2,20	0,00018
19662	96047_at	Rbp4	retinol binding protein 4, plasma	1,13	2,18	0,0144
16691	101009_at	Krt8	Keratin 8	1,11	2,15	0
22370	98549_at	Vtn	vitronectin	1,09	2,13	0,00065
11461	101578_f_at, 95705_s_at	Actb	actin, beta, cytoplasmic	1,09	2,13	7,2E-09
58809	96038_at	Rnase4	ribonuclease, RNase A family 4	1,08	2,12	0,0057
16612	100060_i_at	Klk1 Klk1b5	kallikrein 1	1,07	2,10	2,9E-07
18815	101985_at	Plg	plasminogen	1,06	2,08	0,0113
11656	92768_s_at	Alas2	aminolevulinic acid synthase 2, erythroid	1,05	2,06	0,00139
11537	99671_at	Cfd	complement factor D (adipsin)	1,00	2,00	0.0255
16618	102693_f_at	Klk1b26	kallikrein 1-related peptidase b26	0.99	1.98	0.00000338
56358	104143_at	Copz2	coatamer protein complex, subunit zeta 2	0.97	1.96	0.00282
14619	98423_at	Gjb2	gap junction membrane channel protein beta 2	0.97	1.96	0.00356
13645	102774_at	Egf	epidermal growth factor	0.96	1.94	0.00493
16976	100086_at	Lrpap1	low density lipoprotein receptor-related protein associated protein 1	0.96	1.94	0.0207
18534	160481_at	Pck1	phosphoenolpyruvate carboxykinase 1, cytosolic	0.95	1.93	0.00000148
18048	100060_i_at; 94773_at	Klk1b4	kallikrein 1-related peptidase b4	0.93	1.90	0.00000105
93721	103882_at	Cpn1	carboxypeptidase N, polypeptide 1	0.92	1.90	0.00181
21835	160306_at	Thrsp	thyroid hormone responsive SPOT14 homolog (Rattus)	0.91	1.88	0.000000584
14874	160350_at	Gstz1	glutathione transferase zeta 1 (maleylacetoacetate isomerase)	0.91	1.87	0.0171
16956	95611_at, 160083_at	Lpl	lipoprotein lipase	0.90	1.87	0.00144

26358	94778_at	Aldh1a7	aldehyde dehydrogenase family 1, subfamily A7	0.90	1.86	0.00198
19218	96588_at	Ptger3	prostaglandin E receptor 3 (subtype EP3)	0.89	1.86	0.0000157
12583	96346_at	Cdo1	cysteine dioxygenase 1, cytosolic	0.88	1.84	0.0000323
27053	161221_f_at, 95133_at	Asns	asparagine synthetase	0.88	1.84	0.0268
14365	98169_s_at	Fzd3	frizzled homolog 3 (Drosophila)	0.88	1.84	0.0447
20202	103887_at	S100a9	S100 calcium binding protein A9 (calgranulin B)	0.86	1.81	0.000316
109620	94247_at	Dsp	desmoplakin	0.85	1.80	0.0000157
16816	103023_at	Lcat	lecithin cholesterol acyltransferase	0.84	1.78	0.00318
19695	96064_at	Reg3g	regenerating islet-derived 3 gamma	0.83	1.77	0.0113
11475	93100_at	Acta2	actin, alpha 2, smooth muscle, aorta	0.82	1.77	0.00329
15377	98324_at	Foxa3	forkhead box A3	0.82	1.76	0.0056
99887	103257_at	Tmem56	transmembrane protein 56	0.82	1.76	0.00182
193740	93875_at	Hspa1a	heat shock protein 1A	0.81	1.75	0.00693
69581	96747_at	Rhou	ras homolog gene family, member U	0.80	1.74	0.0187
57264	102366_at	Retn	resistin	0.79	1.73	0.0253
AV349686	161610_at	Ndrp2 similar	N-myc Downstream regulated 2	0.70	1.62	0.0123
213742	99126_at	Xist	inactive X specific transcripts	0.68	1.60	0.000767
104158	101539_f_at	Ces3	carboxylesterase 3	0.66	1.58	0.000143
30956	103389_at	Aass	aminoadipate-semialdehyde synthase	0.61	1.52	0.0113
18054	96153_at	Ngp	neutrophilic granule protein	0.58	1.50	0.0389
20201	103448_at	S100a8	S100 calcium binding protein A8 (calgranulin A)	0.58	1.49	0.0434
22626	161149_r_at	Slc23a3	solute carrier family 23 (nucleobase transporters), member 3	0.56	1.48	0.0255
14600	99108_s_at	Ghr	growth hormone receptor	0.52	1.44	0.0389
235320	92202_g_at	Zbtb16	zinc finger and BTB domain containing 16	0.51	1.42	0.0216
238257	96749_f_at	Tmem30b	transmembrane protein 30B	0.47	1.38	0.0243
13106	93996_at	Cyp2e1	cytochrome P450, family 2, subfamily e, polypeptide 1	0.42	1.33	0.0337

B. Genes down-regulated in E-IAA positive PaLN

387524	99574_at	Znrf2	zinc and ring finger 2	-1.43	-2.69	0.000000305
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380794	102824_g_at	Ighg	Immunoglobulin heavy chain (gamma polypeptide)	-1.11	-2.17	0.00867
664944	102818_at	Slx, Xmr	Xmr protein	-1.10	-2.14	0.0142
67203	94910_at	Nde1	nuclear distribution gene E homolog 1 (A nidulans)	-1.08	-2.12	0.00264
15312	96699_at	Hmgn1	high mobility group nucleosomal binding domain 1	-1.00	-2.00	0.0469
16142	93638_s_at	Igl-V1	immunoglobulin lambda chain, variable 1	-0.97	-1.96	0.0164
380795	102721_at	IgG1c	expressed sequence A1324046	-0.89	-1.85	0.0123
21974	99462_at	Top2b	topoisomerase (DNA) II beta	-0.86	-1.81	0.000353
668838	100048_at	Rap1a	RAS-related protein-1a	-0.86	-1.81	0.0418
230484	160234_at	Usp1	ubiquitin specific peptidase 1	-0.85	-1.80	0.0123
14017	98025_at	Evi2a	ecotropic viral integration site 2a	-0.84	-1.79	0.0374
69774	97322_at	Ms4a6b	membrane-spanning 4-domains, subfamily A, member 6B	-0.83	-1.78	0.00389
66949	99149_at	Trim59	similar to mouse RING finger 1	-0.83	-1.77	0.0216
105439	160236_at	Slain1	SLAIN motif family, member 1	-0.82	-1.76	0.0152
74326	97491_at	Hnrpr	heterogeneous nuclear ribonucleoprotein R	-0.81	-1.76	0.0179
22194	92660_f_at	Ube2e1	ubiquitin-conjugating enzyme E2E 1, UBC4/5 homolog (yeast)	-0.80	-1.74	0.0156
100046793	96971_f_at	Similar to IgG	Immunoglobulin kappa chain variable 28 (V28)	-0.76	-1.73	0.0116
18538	101065_at	Pcna	proliferating cell nuclear antigen	-0.79	-1.73	0.0408
20728	103454_at	Spic	Spi-C transcription factor (Spi-1/PU.1 related)	-0.76	-1.69	0.0064
54394	98415_at	Crlf3	cytokine receptor-like factor 3	-0.76	-1.69	0.0439
14910	160620_at	Gt(ROSA)26Sor	gene trap ROSA 26, Philippe Soriano	-0.75	-1.68	0.00501
234069	96545_s_at	Pcid2	PCI domain containing 2	-0.73	-1.65	0.0141
13136	103617_at	Cd55	CD55 antigen	-0.72	-1.65	0.0251
15381	160199_at	Hnrpc	heterogeneous nuclear ribonucleoprotein C	-0.69	-1.62	0.0355
50790	102381_at	Acsl4	acyl-CoA synthetase long-chain family member 4	-0.67	-1.59	0.0355
13025	103518_at	Ctla2b	cytotoxic T lymphocyte-associated protein 2 beta	-0.64	-1.56	0.0355
12479	103422_at	Cd1d1	CD1d1 antigen	-0.62	-1.53	0.0398
17918	98968_at	Myo5a	myosin Va	-0.58	-1.49	0.0056

27050	101137_at	Rps3	ribosomal protein S3	-0.52	-1.44	0.0243
16149	101054_at	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	-0.50	-1.42	0.00298
20688	92992_i_at	Sp4	trans-acting transcription factor 4	-0.44	-1.36	0.000425
100046552	93086_at	Cr1	immunoglobulin kappa chain, constant region	-0.44	-1.36	0.0000559
100041965	161360_at	Oaz1	ornithine decarboxylase antizyme	-0.40	-1.32	0.0305
13627	94766_at	Eef1a1	eukaryotic translation elongation factor 1 alpha 1	-0.33	-1.25	0.00858

C. Expressed Sequence Tags (EST)

67373	100103_f_at; 100104_r_at	RIKEN 2210010C04	Trypsinogen 7 similar	4.32	20.03	0
69036	160145_at	Splign similar EST unknown	RIKEN cDNA 1810010M01 gene	5.40	42.36	0
V00829	100681_f_at	MGK2 fragment---	Similar to KIKb9---	3.84	14.27	0
73626	92712_at	TCRVb, 1810009J06Rik	RIKEN cDNA 1810009J06 gene	1.99	3.96	0
AV171666	161677_r_at	EST Unknown-	cDNA sequence BC003494	1.39	2.63	0.000000256
AE000663	101336_at	EST unknown	TCR V beta locus EST or dopamine beta-hydroxylase type 1	1.18	2.26	0.000058
AV250694	161131_r_at	EST	Unknown	0.90	1.87	0.00528
AW049643	160250_at	Sec11c Homologue EST	RIKEN 1810029G24	0.79	1.73	0.0384
AV067171	161641_at	EST Unknown	cDNA sequence BC008155	0.65	1.57	0.0384
224171	160973_at	RTRtv	RIKEN C330027C09	-0.53	-1.44	0.0173
67922	97866_at	EST Unknown	RIKEN cDNA 2510049I19 gene	-0.72	-1.64	0.0275
104457	95634_at	EST Unknown	RIKEN cDNA 0610010K14 gene	-1.08	-2.11	0.00245