

## Additional file 6

Custom-made glass oligomer chip results from RNA samples, prepared from inguinal lymph nodes of five naïve DA rats and five naïve E3 rats. The DA rat RNA samples were prepared and analyzed individually in comparison with a pool of RNA from the five E3 rats. The differentially expressed genes are presented as DA versus E3 rats. The data were analyzed statistically using Statview software. All genes with  $t$ -test  $P < 0.05$  are regarded as differentially expressed in this method, and genes with  $P > 0.05$  but  $< 0.1$  are regarded as genes with a tendency toward differential expression.

Down-regulated genes				
DAvsE3, LN, d0				
Accession No	Gene ID	Mean Fold Change	t-Value	P-Value
s81289	IgM kappa chain variable region	-1.6	-10.6	0
j00710	rat casein-alpha	-2.1	-4.5	0.01
Up-regulated genes				
DAvsE3, LN, d0				
Accession No	Gene ID	Mean Fold Change	t-Value	P-Value
x160581	Interleukin-4	1.6	5.2	0.01
u097931	p21 (c-Ki-ras)	1.4	4.7	0.01
s49003	short isoform growth hormone receptor	1.5	4.2	0.01
x139051	ras-related rab1B protein	1.3	4.1	0.02
u323141	pyruvate carboxylase mRNA	1.2	4.1	0.02
af0256711	caspase 2 (Ich1)	1.6	3.8	0.02
m258231	Leukocyte common antigen CD45RC	1.9	3.7	0.02
d497851	protein kinase (MUK)	1.6	3.6	0.02
j046291	(Na+, K+)-ATPase-beta-2 subunit	1.7	3.6	0.02
x867891	sensory neuron synuclein	1.5	3.4	0.03
m340971	natural killer (NK) cell protease 1 (RNKP-1)	1.7	3.4	0.03
aj1318481	collagen alpha 1 type X	1.9	3.1	0.04
nm_0131211	CD28	1.3	3	0.04
j025851	liver stearyl-CoA desaturase mRNA	1.5	3	0.04
x004611	alpha-lactalbumin	1.3	2.9	0.04
d107701	beta isoform of catalytic subunit of cAMP-dependent protein kinase	1.6	2.8	0.05
x99121	RT6 gene	1.4	2.8	0.05
m340831	lactogen receptor	2.1	2.8	0.05
d004031	interleukin-1 alpha	1.3	2.7	0.05
u409991	retinal protein (RRG4)	1.4	2.7	0.06
u103571	pyruvate dehydrogenase kinase 2 subunit p45 (PDK2)	1.4	2.6	0.06
d851001	very-long-chain acyl-CoA synthetase	3	2.6	0.06
u826231	cytocentrin	1.5	2.6	0.06
u313301	B7.2	1.6	2.6	0.06
z838691	serine/threonine kinase MARK2	1.4	2.6	0.06
af0104661	interferon gamma	1.8	2.6	0.06
l208691	pancreatitis associated protein III (PAPIII0)	1.4	2.5	0.06
ab0057431	fatty acid transporter	1.3	2.5	0.07
s72506	glutathione S-transferase Yc2 subunit	1.5	2.5	0.07
u047401	platelet-activating factor receptor	1.5	2.4	0.07
u789771	putative ATPase mRNA	1.2	2.4	0.08
s677221	cyclooxygenase isoform COX-2	1.7	2.4	0.08
d285121	Synaptotagmin III	1.8	2.4	0.08
m828261	leucopus neurofibromatosis protein type I	1.6	2.3	0.08
u034701	FAS ligand	3.2	2.3	0.08
d252901	K-cadherin	1.5	2.2	0.09
nm_0192951	Lymphocyte antigen CD5	1.5	2.2	0.09
u244411	gelatinase B (GelB) mRNA	1.6	2.2	0.09
ab0106351	carboxylesterase precursor	2.1	2.1	0.1
l321321	lipopolysaccharide binding protein	2.1	2.1	0.1
d144191	PP2A B $\beta$ mRNA for B regulatory subunit of protein phosphatase 2A	1.6	2.1	0.1
d263931	HK2 gene for type II hexokinase, exon1 and promoter region ***	2.2	2.1	0.1
m15402	Ig active kappa-chain	1.7	2.1	0.1
af0533121	CC chemokine ST38 precursor	1.6	2.1	0.1
m61725	transcription factor UBF2	1.8	2.1	0.1
l120251	tumor-associated glycoprotein E4 (Tage4) mRNA	1.8	2.1	0.1
aa685903	similar to Glucose regulated protein, 94 kDa (GRP94)	1.3	2.1	0.1
s875221	leukotriene A4 hydrolase	1.3	2	0.1
x985171	macrophage metalloelastase (MME)	1.5	1.9	0.1
x00923	immunoglobulin epsilon heavy chain	1.9	1.9	0.1
l07399	immunoglobulin rearranged gamma-chain (V) region	2	1.9	0.1
m271511	muscle regulatory factor mRNA MRF4	1.4	1.9	0.1
y077041	BEST5 mRNA for hypothetical protein	1.5	1.9	0.1
af0139851	CD40 ligand	1.3	1.9	0.1
d499551	bone marrow stromal cell antigen 1 (BST-1)	2	1.9	0.1