

Supplementary Table S1. Immune cell populations from Sprague-Dawley and FSL rats.

antibody	Sprague-Dawley		FSL		p - value
	% of cells	SEM	% of cells	SEM	
CD3+	5.62	0.26	6.83	0.50	0.05
CD161a+	2.28	0.29	2.56	0.24	0.47
CD11b/c+	82.36	1.93	83.24	1.02	0.69
CD45+/CD11b/c+	3.15	0.31	3.67	0.20	0.19

Supplementary Table S2. All differentially regulated probe sets derived from the microarray analysis.

Probe.Set.ID	Gene.Title	Gene.Symbol	Log2(FC)
UP-REGULATED TRANSCRIPTS			
1368826_at	catechol-O-methyltransferase	Comt	6.14
1371970_at	family with sequence similarity 111, member A	Fam111a	5.51
1383211_at	---	---	5.26
1395020_at	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	Plekhh1	5.25
1387839_at	RT1 class Ib gene, H2-TL-like, grc region (N1) /// RT1 class Ib gene, H2-TL-like, grc region(N2) /// RT1 class Ib gene, H2-TL-like, grc region (N3)	RT1-N1 /// RT1-N2 /// RT1-N3	4.62
1391809_at	---	---	4.25
1397164_at	---	---	4.21
1369144_a_at	potassium voltage gated channel, Shal-related family, member 3	Kcnd3	3.61
1395703_at	---	---	3.53
1390777_at	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like	Sc5dl	2.69
1393842_at	coiled-coil domain containing 77	Ccdc77	2.54
1380577_at	ATP-binding cassette, sub-family G (WHITE), member 2	Abcg2	2.53
1378346_at	lipin 2	Lpin2	2.27
1387926_at	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like	Sc5dl	2.25
1383864_at	---	---	2.17
1396368_at	---	---	2.14
1380948_at	---	---	1.76
1390284_at	coiled-coil domain containing 77	Ccdc77	1.75
1396782_at	---	---	1.72
1384717_at	---	---	1.71
1377056_at	---	---	1.70
1372531_at	PTPRF interacting protein, binding protein 2 (liprin beta 2)	Ppfibp2	1.67
1396441_at	---	---	1.66
1384996_at	---	---	1.65
1396240_at	---	---	1.65
1368366_at	camello-like 1	Cml1	1.62
1374743_at	InaD-like (Drosophila)	Inadl	1.58
1396743_at	---	---	1.58
1396917_at	---	---	1.57
1397555_at	similar to leucine zipper protein 2	RGD1563838	1.56
1392586_at	MU-2/AP1M2 domain containing, death-inducing	Mudeng	1.55

1389553_at	C-type lectin domain family 4, member a3	Clec4a3	1.54
1393084_at	HRAS-like suppressor	Hrasls	1.53
1388506_at	desmoplakin	Dsp	1.44
1374934_at	---	---	1.43
1367762_at	somatostatin	Sst	1.38
1390929_at	---	---	1.36
1380264_at	---	---	1.34
1385601_at	FSHD region gene 1-like	Frg11	1.33
1372917_at	peptidyl-tRNA hydrolase 2	Pth2	1.31
1389734_x_at	histocompatibility 2, T region locus 24	H2-T24	1.29
1388578_at	similar to B0432.8	LOC289378	1.27
1391776_at	COX assembly mitochondrial protein homolog (<i>S. cerevisiae</i>)	Cmc1	1.27
1376771_at	protein phosphatase 1 (formerly 2C)-like	Ppm11	1.24
1388182_at	DNA primase, p49 subunit	Prim1	1.24
1396381_at	hypothetical protein LOC688736	MGC116202	1.23
1368589_at	protein tyrosine phosphatase, receptor type, J	Ptpj	1.21
1371595_at	---	---	1.19
1382755_at	---	---	1.17
1368621_at	aquaporin 9	Aqp9	1.12
1374090_at	similar to DKFZP547E1010 protein	LOC361990	1.12
1380552_at	---	---	1.11
1388378_at	eukaryotic translation initiation factor 3, subunit C	Eif3c	1.11
1382134_at	olfactomedin-like 1	Olfml1	1.08
1379304_at	Prkr interacting protein 1 (IL11 inducible)	Prkrip1	1.08
1369743_a_at	purinergic receptor P2X, ligand-gated ion channel 4	P2rx4	1.08
1395719_at	Tu translation elongation factor, mitochondrial	Tufm	1.06
1387256_at	a disintegrin and metallopeptidase domain 1a	Adam1a	1.05
1398679_at	---	---	1.05
1377451_at	Similar to c-Mpl binding protein	RGD1305704	1.04
1390434_at	TNFRSF1A-associated via death domain	Tradd	1.02
1368064_a_at	dopa decarboxylase (aromatic L-amino acid decarboxylase)	Ddc	1.00
1372293_at	Similar to RIKEN cDNA 1110038F21	RGD1562059	0.98
1372119_at	ubiquitin-like modifier activating enzyme 5	Uba5	0.96
1371770_at	prefoldin 6	Pfdn6	0.96
1388617_at	biphenyl hydrolase-like (serine hydrolase)	Bphl	0.94
1397415_at	spastic paraplegia 3A homolog (human)	Spg3a	0.94
1395542_at	---	---	0.91
1395393_at	---	---	0.91
1383479_at	---	---	0.90
1372027_at	---	---	0.90
1370005_at	cytochrome b5 type B (outer mitochondrial membrane)	Cyb5b	0.90
1374992_at	---	---	0.89
1397628_at	similar to RIKEN cDNA 2900092E17	RGD1305592	0.88
1390185_at	decapping enzyme, scavenger	Dcps	0.88
1370061_at	RAB3B, member RAS oncogene family	Rab3b	0.88
1389166_at	calcium and integrin binding family member 2	Cib2	0.88
1378163_at	gremlin 2, cysteine knot superfamily, homolog (<i>Xenopus laevis</i>)	Grem2	0.87
1379717_at	similar to ATP-binding cassette, sub-family G (WHITE), member 3	LOC360997	0.87

1370576_at	dynein cytoplasmic 1 light intermediate chain 1	Dync1li1	0.87
1370144_at	GTP binding protein 4 /// similar to Nucleolar GTP-binding protein 1 (Chronic renal failure gene protein) (GTP-binding protein NGB) /// similar to isopentenyl diphosphate delta-isomerase type 2	Gtpbp4 /// LOC689842 /// RGD1560805	0.86
1392149_at	---	---	0.85
1370956_at	decorin	Dcn	0.83
1383598_at	WD repeat domain 91	Wdr91	0.83
1379641_at	Radixin	Rdx	0.83
1370831_at	monoglyceride lipase	Mgll	0.80
1386145_at	---	---	0.80
1373288_at	suppression of tumorigenicity 5	St5	0.80
1389360_at	FXVD domain-containing ion transport regulator 3	Fxyd3	0.79
1379338_at	phosphoglucomutase 2-like 1	Pgm2l1	0.79
1383058_at	---	---	0.79
1388153_at	acyl-CoA synthetase long-chain family member 1	Acs1l	0.79
1398303_s_at	tropomyosin 3, gamma	Tpm3	0.79
1369735_at	growth arrest specific 6	Gas6	0.78
1378394_at	metallophosphoesterase 1	Mppe1	0.77
1394625_at	transmembrane protein 144	Tmem144	0.77
1382193_at	CDGSH iron sulfur domain 2	Cisd2	0.76
1387370_at	tropomodulin 1	Tmod1	0.76
1384504_at	membrane associated guanylate kinase, WW and PDZ domain containing 1	Magi1	0.76
1394517_at	---	---	0.75
1376723_a_at	---	---	0.75
1383722_at	proline synthetase co-transcribed homolog (bacterial)	Prosc	0.75
1371251_at	galactose-1-phosphate uridylyltransferase	Galt	0.74
1379826_at	coiled-coil domain containing 107	Ccdc107	0.73
1392257_at	MIS12, MIND kinetochore complex component, homolog (yeast)	Mis12	0.73
1370829_at	farnesyltransferase, CAAX box, beta	Fntb	0.72
1369989_at	pyridoxine 5'-phosphate oxidase	Pnpo	0.72
1368658_at	ciliary neurotrophic factor	Cntf	0.71
1383624_at	similar to hypothetical protein LOC284018 isoform b	RGD1565033	0.70
1385093_at	similar to hypothetical protein LOC284018 isoform b	RGD1565033	0.69
1393073_at	---	---	0.69
1369651_at	Thy-1 cell surface antigen	Thy1	0.67
1369102_at	mitogen activated protein kinase 10	Mapk10	0.67
1375719_s_at	cadherin 13	Cdh13	0.67
1390977_at	suppression of tumorigenicity 7-like	St7l	0.67
1385546_at	IQ motif and WD repeats 1	Iqwd1	0.67
1391595_at	La ribonucleoprotein domain family, member 6	Larp6	0.66
1385887_at	---	---	0.66
1381871_at	---	---	0.66
1374756_at	similar to 1500031N24Rik protein	RGD1311188	0.66
1391079_at	---	---	0.66
1371130_at	solute carrier family 1 (glial high affinity glutamate transporter), member 3	Slc1a3	0.66
1372901_at	NHL repeat containing 3	Nhlrc3	0.66
1393480_at	protein phosphatase 1, regulatory (inhibitor) subunit 2	Ppp1r2	0.66

1367612_at	microsomal glutathione S-transferase 1	Mgst1	0.65
1373672_at	Serine (or cysteine) peptidase inhibitor, clade B, member 9	Serpinb9	0.64
1392992_at	---	---	0.63
1380561_at	isoleucyl-tRNA synthetase 2, mitochondrial	Iars2	0.63
1383416_at	Acetyl-coenzyme A acetyltransferase 1	Acat1	0.62
1376669_at	---	---	0.59

DOWN-REGULATED TRANSCRIPTS

1391262_at	similar to SUMO/sentrin specific protease 5 /// SUMO/sentrin specific protease 5	RGD1564247 /// Semp5	-6.21
1393623_at	tripartite motif-containing 25	TRIM25	-5.72
1394620_at	---	---	-5.46
1383449_at	---	---	-5.31
1376302_at	tripartite motif-containing 25	TRIM25	-4.93
1397439_at	similar to diacylglycerol kinase epsilon	LOC497978	-4.81
1377133_at	Hypothetical protein LOC680687	LOC680687	-4.81
1372120_at	ubiquitin-like modifier activating enzyme 5	Uba5	-3.98
1377442_at	HtrA serine peptidase 4	HTRA4	-3.81
1368943_at	ribonuclease, RNase A family 4	Rnase4	-3.72
1395126_at	Fc receptor-like S, scavenger receptor	Fcrls	-3.66
1388071_x_at	RT1 class Ib, locus Aw2	RT1-Aw2	-3.43
1392954_at	---	---	-3.40
1392716_at	---	---	-3.33
1374583_at	---	---	-3.28
1390562_s_at	---	---	-3.17
1381770_at	---	---	-3.11
1376011_at	---	---	-3.03
1371475_at	ribonuclease, RNase A family 4	Rnase4	-2.92
1381840_at	---	---	-2.82
1388060_at	synaptotagmin XII	Syt12	-2.74
1377422_at	Myotubularin related protein 1	Mtmr1	-2.63
1390399_at	cAMP responsive element binding protein-like 2	Crebl2	-2.63
1389533_at	fibulin 2	Fbln2	-2.59
1378003_at	leucine rich repeat containing 8 family, member B	Lrrc8b	-2.55
1397364_at	---	---	-2.40
1388164_at	histocompatibility 2, T region locus 23	H2-T23	-2.35
1376685_at	---	---	-2.32
1384226_at	---	---	-2.28
1370176_at	trafficking protein, kinesin binding 2	Trak2	-2.25
1392202_at	---	---	-2.22
1374959_at	NAD(P)H dehydrogenase, quinone 2	Nqo2	-2.17
1367749_at	lumican	Lum	-2.17
1388212_a_at	histocompatibility 2, T region locus 23 /// histocompatibility 2, T region locus 24	H2-T23 /// H2-T24	-2.14
1394803_at	vacuolar protein sorting 52 homolog (S. cerevisiae)	Vps52	-2.13
1383075_at	cyclin D1	Cend1	-2.12
1388493_at	EGFR-coamplified and overexpressed protein	Ecop	-2.12
1369202_at	myxovirus (influenza virus) resistance 2	Mx2	-2.07

1385521_at	---	---	-2.05
1394477_at	similar to nucleolar protein with MIF4G domain 1	LOC682058	-2.04
1368753_at	calcium/calmodulin-dependent protein kinase kinase 2, beta	Camkk2	-1.98
1398229_at	---	---	-1.98
1380386_at	---	---	-1.95
1370667_at	solute carrier family 9 (sodium/hydrogen exchanger), member 4	Slc9a4	-1.93
1373410_at	myocyte enhancer factor 2C	Mef2c	-1.92
1390063_at	microfibrillar-associated protein 3	Mfap3	-1.90
1394425_at	---	---	-1.87
1384126_a_at	---	---	-1.87
1387376_at	aldehyde oxidase 1	Aox1	-1.84
1391202_at	---	---	-1.78
1382349_at	TBCC domain containing 1	Tbccd1	-1.76
1397795_at	Advillin	Avil	-1.72
1390810_at	---	---	-1.70
1379747_at	Protease, serine, 35	Prss35	-1.69
1397844_at	---	---	-1.68
1397706_at	---	---	-1.68
1398097_at	---	---	-1.65
1380431_at	similar to KIAA0564 protein	RGD1308772	-1.62
1374786_at	---	---	-1.59
1377015_at	---	---	-1.57
1383242_a_at	---	---	-1.56
1379188_at	AT rich interactive domain 2 (Arid-rfx like)	Arid2	-1.55
1391673_at	Rho GTPase activating protein 20	Arhgap20	-1.52
1398445_at	---	---	-1.50
1371123_x_at	histocompatibility 2, T region locus 23 /// histocompatibility 2, T region locus 24	H2-T23 /// H2-T24	-1.49
1394511_at	myb-like, SWIRM and MPN domains 1	Mysm1	-1.47
1378802_at	pyridine nucleotide-disulphide oxidoreductase domain 2	Pyroxd2	-1.46
1379899_at	---	---	-1.46
1377475_at	---	---	-1.45
1391047_at	---	---	-1.44
1396330_at	---	---	-1.39
1383393_at	---	---	-1.37
1377051_at	---	---	-1.36
1389469_at	chromodomain helicase DNA binding protein 1-like	Chd11	-1.36
1375099_at	---	---	-1.32
1375519_at	globin, alpha	LOC287167	-1.31
1398411_at	---	---	-1.30
1375986_at	---	---	-1.30
1396855_at	---	---	-1.29
1371079_at	Fc fragment of IgG, low affinity IIb, receptor (CD32)	Fcgr2b	-1.28
1368000_at	complement component 3	C3	-1.25
1393250_at	---	---	-1.24
1392576_at	similar to protein C33A12.3	RGD1359508	-1.23
1399073_at	OTU domain, ubiquitin aldehyde binding 1	Otub1	-1.23
1374962_at	reticulon 4 interacting protein 1	Rtn4ip1	-1.23

1377963_at	---	---	-1.23
1397375_at	Acyl-CoA synthetase long-chain family member 5	Acs15	-1.23
1377338_at	RAD1 homolog (<i>S. pombe</i>)	Rad1	-1.22
1380430_at	---	---	-1.22
1376843_at	bone morphogenetic protein receptor, type II (serine/threonine kinase)	Bmpr2	-1.21
1374734_at	Hypothetical protein LOC680254	LOC680254	-1.20
1377899_at	similar to RIKEN cDNA 2810025M15	RGD1304982	-1.20
1370850_at	sodium channel, voltage-gated, type III, beta	Scn3b	-1.19
1389467_at	transmembrane protein 100	Tmem100	-1.17
1367577_at	heat shock protein 1	Hspb1	-1.17
1394386_s_at	vacuolar protein sorting 52 homolog (<i>S. cerevisiae</i>)	Vps52	-1.16
1381993_at	chloride intracellular channel 2	Clic2	-1.16
1379433_at	phosphoinositide-3-kinase, class 2, alpha polypeptide	Pik3c2a	-1.16
1380332_at	---	---	-1.16
1367899_at	coagulation factor II (thrombin) receptor	F2r	-1.15
1384127_at	---	---	-1.14
1373964_at	glutaredoxin-like protein	LOC100174910	-1.14
1388213_a_at	histocompatibility 2, T region locus 23 /// histocompatibility 2, T region locus 24	H2-T23 /// H2-T24	-1.14
1390685_at	---	---	-1.13
1370806_at	retinol saturase (all trans retinol 13,14 reductase)	Retsat	-1.13
1396117_at	similar to leucine zipper protein 2	RGD1563838	-1.13
1396259_at	FRAS1 related extracellular matrix 3	Frem3	-1.12
1380383_at	ADP-ribosylation factor 4-like	Arf4l	-1.11
1372423_at	PERP, TP53 apoptosis effector	Perp	-1.10
1375862_at	peroxidasin homolog (<i>Drosophila</i>)	Pxdn	-1.09
1392582_at	leucine rich repeat containing 4C	Lrrc4c	-1.08
1390502_at	similar to RIKEN cDNA 1700025G04 gene	RGD1309104	-1.07
1374173_at	---	---	-1.07
1392785_at	---	---	-1.06
1385706_at	---	---	-1.05
1393339_at	---	---	-1.04
1379486_at	---	---	-1.03
1393641_at	B-cell linker	Blnk	-1.03
1370937_a_at	integrin alpha 7	Itga7	-1.00
1394097_at	---	---	-1.00
1387279_at	F11 receptor	F11r	-0.99
1375600_at	phosphatidylinositol glycan anchor biosynthesis, class O	Pigo	-0.99
1392863_at	---	---	-0.97
1391406_at	---	---	-0.97
1383248_at	flavin containing monooxygenase 5	Fmo5	-0.96
1397349_at	UBX domain containing 6	Ubx6	-0.95
1390243_at	---	---	-0.95
1383401_at	testis derived transcript	Tes	-0.93
1390637_at	---	---	-0.93
1394392_at	fat storage-inducing transmembrane protein 2	Fitm2	-0.92
1389419_at	---	---	-0.91

1379435_at	deoxyguanosine kinase	Dguok	-0.91
1369965_at	mutL homolog 1 (E. coli)	Mlh1	-0.90
1390046_at	tubulin, gamma complex associated protein 2	Tubgcp2	-0.90
1383933_at	Similar to KIAA0564 protein	RGD1308772	-0.89
1378440_at	---	---	-0.88
1380981_at	Stonin 2	Ston2	-0.88
1383124_at	---	---	-0.88
1392539_at	biliverdin reductase B (flavin reductase (NADPH))	Blvrb	-0.87
1378561_at	---	---	-0.87
1369408_at	deleted in bladder cancer 1 (human)	Dbc1	-0.85
1387163_at	hypocretin	Hcrt	-0.84
1377792_at	---	---	-0.83
1378471_at	ribonucleoprotein, PTB-binding 2	Raver2	-0.81
1376652_at	complement component 1, q subcomponent, alpha polypeptide	C1qa	-0.81
1376885_at	---	---	-0.81
1392715_at	peroxisome proliferator-activated receptor gamma, coactivator 1 beta	Ppargc1b	-0.81
1391125_at	---	---	-0.80
1396383_at	aldehyde dehydrogenase 3 family, member B1	Aldh3b1	-0.80
1391998_at	PHD finger protein 20-like 1	Phf2011	-0.79
1380850_at	---	---	-0.79
1384310_at	---	---	-0.79
1394179_s_at	---	---	-0.78
1396232_at	---	---	-0.78
1380824_at	Hook homolog 3 (Drosophila)	Hook3	-0.78
1393176_at	---	---	-0.77
1371023_at	multiple EGF-like-domains 8	Megf8	-0.77
1368696_at	FXYD domain-containing ion transport regulator 7	Fxyd7	-0.77
1372758_at	---	---	-0.76
1367940_at	chemokine (C-X-C motif) receptor 7	Cxcr7	-0.76
1389701_at	---	---	-0.76
1381008_at	---	---	-0.75
1368162_at	cystatin E/M	Cst6	-0.75
1389585_at	---	---	-0.74
1376790_at	---	---	-0.74
1388919_at	zinc finger protein 541	Znf541	-0.74
1381515_at	---	---	-0.74
1395087_at	---	---	-0.74
1387973_at	cytochrome P450, family 4, subfamily f, polypeptide 4	Cyp4f4	-0.74
1387493_at	A kinase (PRKA) anchor protein 5	Akap5	-0.74
1368817_at	proteasome (prosome, macropain) activator subunit 4	Psme4	-0.74
1378580_at	---	---	-0.73
1391889_at	---	---	-0.73
1389735_at	ribosomal protein S6 kinase polypeptide 6	Rps6ka6	-0.73
1384250_a_at	---	---	-0.72
1367994_at	dihydropyrimidine dehydrogenase	Dpyd	-0.72
1393302_at	---	---	-0.71
1375640_at	FK506 binding protein 9, 63 kDa	Fkbp9	-0.71
1373204_at	transmembrane protein 176A	Tmem176a	-0.71

1368207_at	FXYD domain-containing ion transport regulator 5	Fxyd5	-0.71
1394961_at	---	---	-0.71
1373440_at	LYR motif containing 2 /// midasin homolog (yeast)	Lyrm2 /// Mdn1	-0.70
1392947_at	---	---	-0.70
1368426_at	carnitine O-octanoyltransferase	Crot	-0.70
1376710_at	---	---	-0.70
1391037_at	von Willebrand factor A domain containing 5B2	Vwa5b2	-0.70
1393230_s_at	Similar to KIAA0564 protein	RGD1308772	-0.69
1372958_at	OTU domain, ubiquitin aldehyde binding 1	Otub1	-0.69
1371018_at	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	Celsr2	-0.69
1368954_at	phospholipase D2	Pld2	-0.68
1372037_at	PDZ and LIM domain 7	Pdlim7	-0.68
1381311_at	EGF-like module containing, mucin-like, hormone receptor-like 1	Emr1	-0.68
1374732_at	hexamethylene bis-acetamide inducible 2	Hexim2	-0.68
1388344_at	SAP domain containing ribonucleoprotein	Sarnp	-0.68
1385442_at	---	---	-0.68
1397879_at	---	---	-0.67
1368438_at	phosphodiesterase 10A	Pde10a	-0.67
1370891_at	Cd48 molecule	Cd48	-0.67
1384780_at	copine IV	Cpne4	-0.67
1393559_at	---	---	-0.67
1369655_at	phosphoinositide-3-kinase, class 3	Pik3c3	-0.67
1368467_at	cytochrome P450, family 4, subfamily f, polypeptide 1	Cyp4f1	-0.66
1376562_at	similar to Traf2 and NCK interacting kinase, splice variant 4	RGD1561817	-0.66
1389908_at	---	---	-0.66
1390232_at	similar to RIKEN cDNA 1810055G02	RGD1311946	-0.66
1395344_at	myotubularin related protein 1	Mtmr1	-0.66
1389617_at	ELK3, member of ETS oncogene family	Elk3	-0.66
1396392_at	Dynactin 6	Dctn6	-0.65
1384291_at	---	---	-0.65
1392702_at	---	---	-0.64
1367995_at	catalase	Cat	-0.64
1381612_at	---	---	-0.63
1384163_at	---	---	-0.63
1384541_at	hyaluronan and proteoglycan link protein 1	Hapln1	-0.63
1370259_a_at	parathyroid hormone receptor 1	Pthr1	-0.62
1376956_at	---	---	-0.62
1397528_at	Splicing factor, arginine/serine-rich 2, interacting protein	Sfrs2ip	-0.62
1372799_at	deoxyguanosine kinase	Dguok	-0.62
1391383_at	cartilage acidic protein 1	Crtac1	-0.61
1393214_at	---	---	-0.60
1382204_at	thyrotropin-releasing hormone degrading enzyme	Trhde	-0.60
1377856_at	---	---	-0.60
1373146_at	synovial sarcoma, X breakpoint 2 interacting protein	Ssx2ip	-0.60
1376576_at	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	Dusp11	-0.59
1382270_at	---	---	-0.59

1388337_at	nucleoside phosphorylase	Np	-0.59
1376635_at	---	---	-0.59
1387345_at	proteasome (prosome, macropain) activator subunit 4	Psme4	-0.59
1389144_at	COMM domain containing 6	Commd6	-0.59
1368291_at	baculoviral IAP repeat-containing 2	Birc2	-0.59
1390966_at	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransferase, zeta)	Agpat6	-0.59

Supplementary Table S3. Relative quantitation of gene expression using quantitative real-time PCR.

Gene	$\Delta\Delta\text{Ct}$ SD	$\Delta\Delta\text{Ct}$ FSL	p value
C3	1.13 ± 0.07	0.72 ± 0.11	0.02
Tradd	0.54 ± 0.06	1.18 ± 0.06	< 0.001
Acs11	0.81 ± 0.56	1.00 ± 0.05	0.04
Rnase4	1.79 ± 0.12	0.34 ± 0.03	< 0.001

Real-time reverse transcription-polymerase chain reaction (RT-PCR) was used to confirm microarray results for a subset of selected genes from those demonstrating differential expression in the microarray analysis. mRNA was isolated as described in the materials and methods section. Samples were treated with DNase (RQ1 RNase-Free DNase; Promega Corporation, Madison, WI 53711 USA) for 30 minutes at 37°C. Next, 1 μl of DNase Stop Solution was added to terminate to inactivate the DNase (10 minutes at 65°C). Reverse transcription of 1 μg of each sample was performed with Applied Biosystems (Life Technologies Corporation, Carlsbad, CA, USA) High-Capacity cDNA reverse transcription kit according to the manufacturer's protocol. Quantitative PCR was carried out using Taqman probes and Taqman Universal PCR Master Mix from Applied Biosystems (Life Technologies Corporation, Carlsbad, CA, USA) on the ABI 7500 Real Time PCR system using the relative quantification ($\Delta\Delta\text{Ct}$) method, with Gapdh RNA as the internal control. Data analysis of gene expression in Sprague-Dawley (SD; n = 4) and Flinder's Sensitive Line (n = 5) rats was carried out using the 7500 System SDS Software, with data normalized to a sample containing cDNA from all of the samples studied. Data from one SD animal was excluded as an outlier. Statistical comparisons were carried out by comparing $\Delta\Delta\text{Ct}$ values for each group using two-tailed, unpaired t-tests.

Supplementary Table S4. BDI-II items that comprise the Cognitive-Affective and Somatic factors.

Cognitive-Affective Factor	Somatic Factor
1. Sadness	15. Loss of energy
2. Pessimism	16. Changes in sleeping pattern
3. Past failure	17. Irritability
5. Guilty feelings	18. Changes in appetite
6. Punishment feelings	19. Concentration difficulty
7. Self-dislike	20. Tiredness or fatigue
8. Self-criticalness	21. Loss if interest in sex
9. Suicidal thoughts	
10. Crying	
11. Agitation	
14. Worthlessness	