

Supplementary Table 4. Genes differentially expressed in LSK cells between D.B Chr3 and D2 strains.

Genes upregulated in D.B Chr3 LSK cells are in black, and down-regulated are in red

Probe Set ID	Gene Title	Gene Symbol	Chromosomal Location	Entrez Gene
100986_at	four and a half LIM domains 2	Fhl2	1 C1.1	14200
101209_at	Fc receptor, IgE, high affinity I, alpha polypeptide	Fcer1a	1 H3 1 94.2 cM	14125
103761_at	transcription factor CP2-like 1	Tcfcp2l1	1 E2	81879
92440_at	interferon regulatory factor 6	Irf6	1 H6	54139
94480_at	DNA segment, Chr 1, ERATO Doi 161, expressed	D1Ertd161e	1 C4 1 41.0 cM	52231
102260_at	growth factor independent 1B	Gfi1b	2 A3	14582
103257_at	RIKEN cDNA 4930577M16 gene	4930577M16Rik	3 G1	99887
160150_f_at	calponin 3, acidic	Cnn3	3 G1	71994
160335_at	glutamate-cysteine ligase , modifier subunit	Gclm	3 H1-3 3 53.5 cM	14630
92581_at	acetyl-Coenzyme A dehydrogenase, medium chain	Acadm	3 H3 3 73.6 cM	11364
92694_at	chitinase 3-like 3	Chi3l3	3 F2.2 3 50.5 cM	12655
93491_f_at	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	Ube2d3	3 G3	66105
96065_at	latexin	Lxn	3 E1 3 31.6 cM	17035
98600_at	S100 calcium binding protein A11 (calizzarin)	S100a11	3 E-F	20195
99097_at	eukaryotic translation initiation factor 4E	Eif4e	3 H1 12 25.0 cM	13684
102368_at	RIKEN cDNA 2610208E05 gene	2610208E05Rik	4 A5	108755
104413_at	EST	EST	4 102Mb	AI834976
97921_at	agrin	Agrn	4 E2 4 80.0 cM	11603
93973_at	eukaryotic translation initiation factor 3, subunit 9 (eta)	Eif3s9	5 G2 5 82.0 cM	27979
94559_at	general transcription factor III A	Gtf3a	5 145Mb	66596
95521_s_at	zinc finger protein 68	Zfp68	5 G2	24135
96948_at	quininoid dihydropteridine reductase	Qdpr	5 B3 5 30.0 cM	110391
162381_f_at	Sphingosine kinase 2	Sphk2	7 B2	56632
94338_g_at	growth arrest specific 2	Gas2	7 B3 7 26.8 cM	14453
97352_f_at	cytochrome c oxidase subunit VIb polypeptide 2	Cox6b2	7 3.9Mb	333182
100441_s_at	ankyrin 1, erythroid	Ank1	8 A2 8 9.5 cM	11733
93529_at	DNA segment, Chr 8, Wayne State University 49, expressed	D8Wsu49e	8 C4 8 39.0 cM	71927
94286_at	RIKEN cDNA 9130011J15 gene	9130011J15Rik	8 B3.3	66818
94464_at	chloride channel 3	Clcn3	8 B3.1 8 32.2 cM	12725

95543_at	tropomyosin 4	Tpm4	8 B3.3	326618
102053_at	phospholipid scramblase 2	Plscr2	9 E3.3	18828
102718_at	chemokine (C-C motif) receptor 5	Ccr5	9 72.0 cM	12774
104389_at	RIKEN cDNA 1700017B05 gene	1700017B05Rik	9 C	74211
93498_s_at	amyloid beta (A4) precursor-like protein 2	Aplp2	9 A2-B 9 13.0 cM	11804
96085_at	glutathione S-transferase, alpha 4	Gsta4	9 E1	14860
160064_at	syntaxin 7	Stx7	10 A3	53331
160642_at	EST	EST	10 121Mb	AI853079
93439_f_at	EST	EST	10 108MB	AA260005
161287_f_at	MYB binding protein (P160) 1a	Mybbp1a	11 B4 11 40.0 cM	18432
94469_at	methionine adenosyltransferase II, beta	Mat2b	11 A5	108645
95927_f_at	RIKEN cDNA 2610201A13 gene	2610201A13Rik	30Mb	70434
103017_at	transmembrane 7 superfamily member 1	Tm7sf1	13 A1 13 6.0 cM	83924
160795_at	secretory carrier membrane protein 1	Scamp1	13 D1	107767
161126_at	gene model 288, (NCBI)	Gm288	14 C1	239083
98535_at	catechol-O-methyltransferase	Comt	16 A3 16 11.2 cM	12846
99134_at	t-complex-associated testis expressed 3	Tcte3	17 A2 17 8.16 cM	21647
160391_at	fatty acid desaturase 1	Fads1	19 A	76267
94445_at	plastin 3 (T-isoform)	Pls3	X A7.3	102866
160496_s_at	minichromosome maintenance deficient 3 (<i>S. cerevisiae</i>)	Mcm3	1 A3-A5	17215
160936_at	translocating chain-associating membrane protein 1	Tram1	1 A3	72265
101163_at	recombination activating gene 2	Rag2	2 E2 2 56.0 cM	19374
101896_at	CD1d2 antigen	Cd1d2	3 F1 3 48.0 cM	12480
101897_g_at	CD1d1 antigen /// CD1d2 antigen	Cd1d1 /// Cd1d2	3 F1 3 48.0 cM	12479 /// 12480
92770_at	S100 calcium binding protein A6 (calcyclin)	S100a6	3 F1-F2 3 43.6 cM	20200
96481_at	expressed sequence C80638	C80638	3 G3	97086
99051_at	S100 calcium binding protein A4	S100a4	3 F1-F2 3 43.6 cM	20198
99494_at	serine (or cysteine) proteinase inhibitor, clade I, member 1	Serpini1	3 E3	20713
93614_at	Ras-related GTP binding D	Rragd	4 A5 4 11.4 cM	52187
97261_at	DnaJ (Hsp40) homolog, subfamily A, member 1	Dnaja1	4 A5	15502
97536_at	WD and tetratricopeptide repeats 1	Wdtdc1	4 D2.3	230796
102011_at	RIKEN cDNA 2610507L03 gene	2610507L03Rik	7 B1	72140
102192_r_at	SA rat hypertension-associated homolog	Sah	7 F3	20216
95466_at	coactosin-like 1 (<i>Dictyostelium</i>)	Cotl1	8 E1	72042
96655_g_at	WD repeat domain 48	Wdr48	9 F4	67561
96802_at	programmed cell death protein 7	Pdcd7	9 D	50996
102779_at	growth arrest and DNA-damage-inducible 45 beta	Gadd45b	10 C1 10 60.5 cM	17873
99475_at	suppressor of cytokine signaling 2	Socs2	10 C2 10 52.0 cM	216233

101026_at	pituitary tumor-transforming 1	Pttg1	11 A5	30939
162423_f_at	neighbor of Brca1 gene 1	Nbr1	11 D 11 60.5 cM	17966
93134_at	neuronal pentraxin 1	Nptx1	11 E1-E2 11 75.0 cM	18164
93403_at	ATPase, Ca ⁺⁺ transporting, ubiquitous	Atp2a3	11 B4	53313
93699_at	polymerase (DNA directed), gamma 2, accessory subunit	Polg2	11 E1	50776
95325_at	pleckstrin homology, Sec7 and coiled-coil domains 1	Pscd1	11 E2	19157
96264_at	Wdr45 like	Wdr45l	11 E2 11 3.4 cM	66840
96826_at	Microfibrillar-associated protein 4	Mfap4	11 61Mb	76293
92411_at	HS1 binding protein 3	Hs1bp3	12 A.1	58240
92892_at	vesicular membrane protein p24	Vmp	13 A3.1	22360
100391_at	mitogen activated protein kinase 8	Mapk8	14 B	26419
102334_at	docking protein 2	Dok2	14 D2-D3 14 39.0 cM	13449
98534_at	Sin3-associated polypeptide 18	Sap18	14 C2 14 28.5 cM	20220
100343_f_at	tubulin, alpha 1	Tuba1	15 F1 15 60.4 cM	22142
101447_at	adenomatosis polyposis coli	Apc	18 B1 18 15.0 cM	11789
103282_at	RAS, guanyl releasing protein 2 /// similar to calcium and DAG-regulated guanine nucleotide exchange factor I	Rasgrp2 /// LOC381240	19 6.1Mb	19395 /// 381240
102234_at	RIKEN cDNA 1810037I17 gene	1810037I17Rik	X 28Mb	67704