

Supplemental Tables.

**Genomic response to sepsis in the lungs and kidneys as illustrated by the heat map of the top 100 genes displaying the greatest gene expression fold change. ST1 A & B.** Genes with increased and decreased expression in both organs (Shared Genes) sorted by the fold expression in the lungs. **ST2 A & B.** Top genes expressed in the lungs. **ST3 A & B.** Top genes expressed in the kidneys. The data in both conditions CM (CM + Saline) and NTCl (CM + cSN50.1) is presented as a fold expression compared to Sham + Saline.

## Suppl. Tab. ST1A. Genes with Increased Expression in Sepsis Shared by Lungs and Kidneys

	Gene ID	Gene Name	Lungs		Kidneys	
			Saline	NTCI	Saline	NTCI
1	<i>Csf3</i>	colony stimulating factor 3 (granulocyte)	1,347	1,296	847	1,168
2	<i>Il10</i>	interleukin 10	460	25	6.3	6.6
3	<i>Acod1</i>	aconitate decarboxylase 1	452	103	73	53
4	<i>Saa3</i>	serum amyloid A 3	412	106	23	12
5	<i>Cxcl2</i>	chemokine (C-X-C motif) ligand 2	323	215	217	555
6	<i>Gpr31b</i>	G protein-coupled receptor 31, D17Leh66b region	306	67	5.4	4.8
7	<i>Fgf23</i>	fibroblast growth factor 23	227	437	28	27
8	<i>Igfbp1</i>	insulin-like growth factor binding protein 1	111	80	4.6	8.0
9	<i>Mt2</i>	metallothionein 2	106	123	14	39
10	<i>Mrgpra2b</i>	MAS-related GPR, member A2B	103	78	29	71
11	<i>Ccl3</i>	chemokine (C-C motif) ligand 3	101	8.9	12	4.5
12	<i>Ccl4</i>	chemokine (C-C motif) ligand 4	98	2.9	12	3.0
13	<i>Gpr84</i>	G protein-coupled receptor 84	81	19	20	17
14	<i>Adams4</i>	a disintegrin-like and metallopeptidase (repolysin type) with thrombospondin type 1 motif, 4	78	86	27	16
15	<i>Madcam1</i>	mucosal vascular addressin cell adhesion molecule 1	76	46	47	20
16	<i>Il1r2</i>	interleukin 1 receptor, type II	73	145	7.8	32
17	<i>Olfm4</i>	olfactomedin 4	71	31	2.1	1.8
18	<i>Il1f9</i>	interleukin 36G	68	8.6	34	16
19	<i>Cxcl1</i>	chemokine (C-X-C motif) ligand 1	64	61	123	262
20	<i>Gpr31a</i>	G protein-coupled receptor 31, D17Leh66a region	62	16	12	3.8
21	<i>Gpr31c</i>	G protein-coupled receptor 31, D17Leh66c region	60	17	3.1	2.3
22	<i>Ptx3</i>	pentraxin related gene	57	47	137	227
23	<i>Slc7a11</i>	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11	57	30	6.5	12
24	<i>Gm6553</i>	G protein-coupled receptor 31, D17Leh66c region pseudogene	55	17	14	9.8
25	<i>Tmprss11g</i>	transmembrane protease, serine 11g	54	103	18	39
26	<i>Tac1</i>	tachykinin 1	54	80	27	86
27	<i>Il1f6</i>	interleukin 36A	51	4.0	64	114
28	<i>Ccl2</i>	chemokine (C-C motif) ligand 2	50	16	16	17
29	<i>Psg16</i>	pregnancy specific beta-1-glycoprotein 16	48	39	9.7	6.0
30	<i>Fosl1</i>	fos-like antigen 1	48	31	11	24
31	<i>Sprr2a2</i>	small proline-rich protein 2A2	45	51	2.3	6.8
32	<i>Serpina3m</i>	serine (or cysteine) peptidase inhibitor, clade A, member 3M	45	29	17	7.4
33	<i>Il1rn</i>	interleukin 1 receptor antagonist	43	14	165	117
34	<i>Cxcl3</i>	chemokine (C-X-C motif) ligand 3	42	103	207	421
35	<i>Ccl20</i>	chemokine (C-C motif) ligand 20	41	41	8.1	8.1
36	<i>Tnf</i>	tumor necrosis factor	38	3.7	8.7	6.0
37	<i>Gm43181</i>	predicted gene 43181	37	13	23	15
38	<i>Clec4e</i>	C-type lectin domain family 4, member e	37	18	45	83
39	<i>Gm45774</i>	predicted gene 45774	35	22	7.3	3.8
40	<i>Ugt1a10</i>	UDP glycosyltransferase 1 family, polypeptide A10	35	39	3.5	1.9
41	<i>Kcnt1</i>	potassium channel, subfamily T, member 1	32	28	2.4	2.1
42	<i>Mt1</i>	metallothionein 1	31	39	5.9	19
43	<i>Mefv</i>	Mediterranean fever	31	20	17	18
44	<i>Clec4d</i>	C-type lectin domain family 4, member d	31	16	12	13
45	<i>Ms4a4a</i>	membrane-spanning 4-domains, subfamily A, member 4A	31	12	12	7.1
46	<i>Btbd16</i>	BTB (POZ) domain containing 16	30	10	32	18
47	<i>Spic</i>	Spi-C transcription factor (Spi-1/PU.1 related)	29	13	3.1	4.0
48	<i>Orm1</i>	orosomuroid 1	29	10	7.8	2.6
49	<i>Serpina3f</i>	serine (or cysteine) peptidase inhibitor, clade A, member 3F	28	15	76	86
50	<i>Il1b</i>	interleukin 1 beta	27	16	4.7	4.7
51	<i>Serpina10</i>	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10	27	9.3	6.4	2.1
52	<i>9830107B12Rik</i>	RIKEN cDNA 9830107B12 gene	27	9.3	22	4.5
53	<i>Gm49839</i>	predicted gene, 49839	27	43	10.0	16
54	<i>Msr1</i>	macrophage scavenger receptor 1	27	7.2	6.0	5.5
55	<i>Ankrd2</i>	ankyrin repeat domain 2 (stretch responsive muscle)	26	14	13	15
56	<i>Saa4</i>	serum amyloid A 4	25	5.5	14	0.8
57	<i>S100a8</i>	S100 calcium binding protein A8 (calgranulin A)	25	14	15	21
58	<i>Hpx</i>	hemopexin	24	6.6	25	1.3
59	<i>Apoa4</i>	apolipoprotein A-IV	24	2.2	1.8	2.2
60	<i>Steap4</i>	STEAP family member 4	23	15	39	17
61	<i>Cxcl10</i>	chemokine (C-X-C motif) ligand 10	22	12	9.3	7.5
62	<i>S100a9</i>	S100 calcium binding protein A9 (calgranulin B)	22	15	14	21
63	<i>Wfdc17</i>	WAP four-disulfide core domain 17	22	5.1	3.5	3.2
64	<i>Mmp8</i>	matrix metallopeptidase 8	22	19	233	282
65	<i>Gnat1</i>	G protein subunit alpha transducin 1	22	17	5.7	19

66	<i>Fgg</i>	fibrinogen gamma chain	21	7.3	36	19
67	<i>Fgb</i>	fibrinogen beta chain	20	6.2	26	2.3
68	<i>Lilr4b</i>	leukocyte immunoglobulin-like receptor, subfamily B, member 4B	20	13	3.8	6.2
69	<i>2010003K11Rik</i>	RIKEN cDNA 2010003K11 gene	20	5.8	5.8	9.5
70	<i>Serpina3n</i>	serine (or cysteine) peptidase inhibitor, clade A, member 3N	20	11	29	9.3
71	<i>AA467197</i>	expressed sequence AA467197	19	14	39	40
72	<i>Gm16685</i>	predicted gene, 16685	19	19	4.1	3.2
73	<i>Timp1</i>	tissue inhibitor of metalloproteinase 1	19	14	6.7	5.6
74	<i>Fga</i>	fibrinogen alpha chain	18	5.5	37	24
75	<i>Ifitm6</i>	interferon induced transmembrane protein 6	18	19	7.0	14
76	<i>Lcn2</i>	lipocalin 2	18	9.5	53	53
77	<i>F10</i>	coagulation factor X	18	3.3	4.9	1.2
78	<i>Leap2</i>	liver-expressed antimicrobial peptide 2	17	4.3	6.4	0.5
79	<i>Il6</i>	interleukin 6	17	56	223	671
80	<i>Retnlg</i>	resistin like gamma	16	16	9.1	22
81	<i>Ccl7</i>	chemokine (C-C motif) ligand 7	16	6.6	13	19
82	<i>Ikbke</i>	inhibitor of kappaB kinase epsilon	15	3.9	2.9	1.4
83	<i>Vcan</i>	versican	14	8.1	6.8	9.0
84	<i>F13a1</i>	coagulation factor XIII, A1 subunit	14	5.9	2.5	1.8
85	<i>Serpina3g</i>	serine (or cysteine) peptidase inhibitor, clade A, member 3G	14	9.3	14	11
86	<i>1200007C13Rik</i>	RIKEN cDNA 1200007C13 gene	14	19	35	73
87	<i>Ngp</i>	neutrophilic granule protein	13	13	481	612
88	<i>Siglece</i>	sialic acid binding Ig-like lectin E	13	5.2	3.1	2.1
89	<i>Lrrc25</i>	leucine rich repeat containing 25	13	5.8	3.1	2.7
90	<i>Gm10309</i>	predicted gene 10309	13	8.4	36	20
91	<i>Trem1</i>	triggering receptor expressed on myeloid cells 1	13	9.3	9.0	15
92	<i>Slc39a14</i>	solute carrier family 39 (zinc transporter), member 14	13	8.4	4.6	4.3
93	<i>Fgl1</i>	fibrinogen-like protein 1	13	4.3	3.5	1.0
94	<i>Il27</i>	interleukin 27	12	2.5	8.5	6.0
95	<i>Tcp10b</i>	t-complex protein 10b	12	13	4.7	2.7
96	<i>Serpina3i</i>	serine (or cysteine) peptidase inhibitor, clade A, member 3I	12	11	26	68
97	<i>Cxcl9</i>	chemokine (C-X-C motif) ligand 9	12	3.7	16	16
98	<i>A730049H05Rik</i>	RIKEN cDNA A730049H05 gene	12	30	2.4	2.3
99	<i>Gm8883</i>	predicted gene 8883	12	0.7	3.7	1.7
100	<i>Fpr2</i>	formyl peptide receptor 2	12	8.5	25	31

Suppl. Tab. ST1B. Genes with Decreased Expression in Sepsis Shared by Lungs and Kidneys

	Gene ID	Gene Name	Lungs		Kidneys	
			Saline	NTCI	Saline	NTCI
1	<i>Ano5</i>	anoctamin 5	-53	-9.3	-17	-11
2	<i>Gsg1l</i>	GSG1-like	-31	-6.9	-72	-126
3	<i>Spon2</i>	spondin 2, extracellular matrix protein	-27	-13	-16	-2.9
4	<i>Oxtr</i>	oxytocin receptor	-26	-1.0	-22	-14
5	<i>Rnf112</i>	ring finger protein 112	-21	-12	-39	NS
6	<i>Ppp2r2c</i>	protein phosphatase 2, regulatory subunit B, gamma	-17	-5.1	-4.3	-33
7	<i>Crabp1</i>	cellular retinoic acid binding protein I	-16	-7.5	-30	-4.8
8	<i>St6galnac3</i>	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha 2,6-sialyltransferase 3	-15	-6.7	-4.1	-3.1
9	<i>Agtr2</i>	angiotensin II receptor, type 2	-12	-1.5	-23	-39
10	<i>Gjc2</i>	gap junction protein, gamma 2	-11	-9.4	-23	-28
11	<i>Gm33195</i>	predicted gene, 33195	-11	-1.3	-5.8	-2.0
12	<i>Gabra4</i>	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4	-10	-5.0	-3.8	-5.1
13	<i>Aplnr</i>	apelin receptor	-10	-4.0	-3.2	-5.7
14	<i>E03001319Rik</i>	RIKEN cDNA E03001319 gene	-9.2	-6.9	-6.1	-3.0
15	<i>Pcdh12</i>	protocadherin 12	-8.9	-10	-3.2	-4.1
16	<i>Chp2</i>	calcineurin-like EF hand protein 2	-8.6	-5.5	-4.2	-2.7
17	<i>Gng8</i>	guanine nucleotide binding protein (G protein), gamma 8	-8.6	-4.5	-20	-48
18	<i>Pla2g2d</i>	phospholipase A2, group IID	-8.1	-3.0	-4.7	-3.5
19	<i>Gm20683</i>	predicted gene 20683	-7.9	-1.5	-2.0	-1.2
20	<i>Mansc4</i>	MANSC domain containing 4	-7.7	-4.4	-2.7	-1.8
21	<i>Gm10824</i>	predicted gene 10824	-7.5	-4.6	-5.3	-5.1
22	<i>Ces2b</i>	carboxyesterase 2B	-7.5	-4.6	-2.5	-1.4
23	<i>Kank4</i>	KN motif and ankyrin repeat domains 4	-7.4	-12	-2.7	-4.2
24	<i>Zmat4</i>	zinc finger, matrin type 4	-7.4	-9.5	-3.9	-2.1
25	<i>Cdr1os</i>	cerebellar degeneration related antigen 1, opposite strand	-7.2	-3.5	-43	NS
26	<i>Wnt2</i>	wingless-type MMTV integration site family, member 2	-7.1	-6.0	-4.0	-2.5
27	<i>Gm17040</i>	predicted gene 17040	-6.7	-1.4	-2.9	-1.7
28	<i>Wfdc16</i>	WAP four-disulfide core domain 16	-6.7	-4.7	-2.2	-1.0
29	<i>Rab42</i>	RAB42, member RAS oncogene family	-6.7	-5.6	-5.0	-7.9
30	<i>Tbxa2r</i>	thromboxane A2 receptor	-6.7	-8.8	-4.4	-9.7
31	<i>Plppr5</i>	phospholipid phosphatase related 5	-6.6	-2.4	-47	-6.2
32	<i>Misp3</i>	MISP family member 3	-6.3	-11	-2.6	-1.7
33	<i>Mmp28</i>	matrix metalloproteinase 28 (epilysin)	-6.3	-6.4	-1.8	-3.2
34	<i>Lrrm4</i>	leucine rich repeat neuronal 4	-6.2	-3.6	-11	-6.1
35	<i>Sost</i>	sclerostin	-6.1	-8.5	-107	-17
36	<i>Tmem200a</i>	transmembrane protein 200A	-6.1	-4.8	-10	-5.6
37	<i>Shisa2</i>	shisa family member 2	-6.1	-11	-1.9	-2.6
38	<i>Stmn2</i>	stathmin-like 2	-5.9	-2.4	-3.8	-2.5
39	<i>Chrm1</i>	cholinergic receptor, muscarinic 1, CNS	-5.9	-3.0	-6.6	-25
40	<i>Tmeff2</i>	transmembrane protein with EGF-like and two follistatin-like domains 2	-5.9	-2.8	-7.7	-4.9
41	<i>2810433D01Rik</i>	RIKEN cDNA 2810433D01 gene	-5.8	-7.0	-3.6	-2.6
42	<i>Pabpc4l</i>	poly(A) binding protein, cytoplasmic 4-like	-5.8	-5.9	-6.4	-18
43	<i>Dact3</i>	dishevelled-binding antagonist of beta-catenin 3	-5.7	-6.0	-4.9	-7.4
44	<i>Mettl24</i>	methyltransferase like 24	-5.7	-2.7	-3.2	-1.5
45	<i>Gpr34</i>	G protein-coupled receptor 34	-5.7	-4.7	-14	-8.3
46	<i>D430019H16Rik</i>	RIKEN cDNA D430019H16 gene	-5.6	-8.9	-6.6	-13
47	<i>Hoxc5</i>	homeobox C5	-5.5	-13	-2.1	-3.7
48	<i>Tekt5</i>	tektin 5	-5.4	-2.2	-5.9	-6.1
49	<i>Megf10</i>	multiple EGF-like-domains 10	-5.4	-2.5	-34	-22
50	<i>Wscd1</i>	WSC domain containing 1	-5.4	-4.2	-2.5	-4.1
51	<i>Gm32219</i>	predicted gene, 32219	-5.4	-2.8	-51	-33
52	<i>Tril</i>	TLR4 interactor with leucine-rich repeats	-5.3	-5.2	-3.5	-5.3
53	<i>Agtr1b</i>	angiotensin II receptor, type 1b	-5.3	-2.6	-17	-41
54	<i>2610203C22Rik</i>	RIKEN cDNA 2610203C22 gene	-5.2	-6.0	-4.1	-4.5
55	<i>Abcg3</i>	ATP binding cassette subfamily G member 3	-5.2	-6.9	-13	-9.5
56	<i>Star</i>	steroidogenic acute regulatory protein	-5.2	-1.4	-914	-588
57	<i>Grik2</i>	glutamate receptor, ionotropic, kainate 2 (beta 2)	-5.1	-2.1	-39	-6.1
58	<i>Grin2c</i>	glutamate receptor, ionotropic, NMDA2C (epsilon 3)	-5.1	-1.7	-5.3	-2.8
59	<i>Vstm5</i>	V-set and transmembrane domain containing 5	-5.1	-3.8	-2.7	-2.2
60	<i>Smad9</i>	SMAD family member 9	-5.1	-6.1	-4.4	-6.3
61	<i>Pianp</i>	PILR alpha associated neural protein	-4.9	-3.7	-12	-5.4
62	<i>Rnf144a</i>	ring finger protein 144A	-4.9	-5.3	-1.7	-1.6
63	<i>Cthrc1</i>	collagen triple helix repeat containing 1	-4.8	-5.7	-16	-3.4
64	<i>Nxpe4</i>	neurexophilin and PC-esterase domain family, member 4	-4.8	-3.9	-1.8	-2.0
65	<i>Mrc2</i>	mannose receptor, C type 2	-4.8	-2.8	-2.3	-2.1
66	<i>Cx3cr1</i>	chemokine (C-X3-C motif) receptor 1	-4.8	-8.8	-4.8	-13

67	<i>Il5ra</i>	interleukin 5 receptor, alpha	-4.8	-2.8	-4.2	-8.0
68	<i>Kcnc4</i>	potassium voltage gated channel, Shaw-related subfamily, member 4	-4.7	-1.9	-5.4	-2.9
69	<i>Fam163a</i>	family with sequence similarity 163, member A	-4.7	-18	-2.1	-1.8
70	<i>Cxcr3</i>	chemokine (C-X-C motif) receptor 3	-4.6	-3.2	-3.3	-3.7
71	<i>A330074K22Rik</i>	RIKEN cDNA A330074K22 gene	-4.6	-12	-75	-25
72	<i>Gm11627</i>	predicted gene 11627	-4.6	-3.2	-13	-7.3
73	<i>Mmp11</i>	matrix metalloproteinase 11	-4.6	-5.9	-1.9	-1.2
74	<i>Fam181b</i>	family with sequence similarity 181, member B	-4.6	-4.9	-3.3	-5.3
75	<i>Cd209b</i>	CD209b antigen	-4.5	-2.2	-53	-4.9
76	<i>Tnfrsf19</i>	tumor necrosis factor receptor superfamily, member 19	-4.5	-3.6	-27	-19
77	<i>Sept4</i>	septin 4	-4.5	-3.4	-3.7	-2.7
78	<i>Nlgn3</i>	neuroligin 3	-4.4	-3.0	-173	-426
79	<i>Baalc</i>	brain and acute leukemia, cytoplasmic	-4.4	-2.0	-8.9	-4.5
80	<i>Ngb</i>	neuroglobin	-4.4	-3.7	-10	-4.0
81	<i>Nxph3</i>	neurexophilin 3	-4.4	-3.6	-8.6	-2.1
82	<i>Klb</i>	klotho beta	-4.3	-2.5	-5.1	-2.7
83	<i>Igkv4-72</i>	immunoglobulin kappa chain variable 4-72	-4.3	-7.2	-31	-20
84	<i>Ptprv</i>	protein tyrosine phosphatase receptor type V	-4.3	-2.6	-30	-2.3
85	<i>Nrep</i>	neuronal regeneration related protein	-4.2	-1.7	-2.6	-9.4
86	<i>Itga8</i>	integrin alpha 8	-4.2	-1.8	-2.9	-1.4
87	<i>Myct1</i>	myc target 1	-4.2	-8.1	-4.9	-10.0
88	<i>Palm</i>	paralemmin	-4.2	-4.3	-2.2	-2.2
89	<i>Syt3</i>	synaptotagmin III	-4.2	-1.9	-1.9	-1.1
90	<i>Tspan18</i>	tetraspanin 18	-4.2	-1.8	-2.3	-3.0
91	<i>Piezo2</i>	piezo-type mechanosensitive ion channel component 2	-4.1	-2.7	-3.2	-0.9
92	<i>Nat8f3</i>	N-acetyltransferase 8 (GCN5-related) family member 3	-4.1	-8.9	-1.7	-2.9
93	<i>Cngb1</i>	cyclic nucleotide gated channel beta 1	-4.1	-1.2	-8.8	-1.7
94	<i>Cd209g</i>	CD209g antigen	-4.1	-19	-32	-4.1
95	<i>Faim2</i>	Fas apoptotic inhibitory molecule 2	-4.0	-3.4	-5.5	-13
96	<i>Gfra2</i>	glial cell line derived neurotrophic factor family receptor alpha 2	-4.0	-3.2	-4.7	-4.1
97	<i>Srpk3</i>	serine/arginine-rich protein specific kinase 3	-4.0	-3.1	-74	-3.3
98	<i>Gm3716</i>	predicted gene 3716	-4.0	-4.2	-7.1	-6.2
99	<i>Klhl13</i>	kelch-like 13	-4.0	-3.1	-2.6	-1.5
100	<i>Mogat2</i>	monoacylglycerol O-acyltransferase 2	-3.9	-6.1	-2.4	-1.2

Suppl. Tab. ST2A. Genes with Increased Expression in Lungs of Infected Mice

	Gene ID	Gene Name	Lungs	
			Saline	NTCI
1	<i>Saa2</i>	serum amyloid A 2	3,985	1,338
2	<i>Saa1</i>	serum amyloid A 1	1,849	658
3	<i>Prok2</i>	prokineticin 2	1,783	450
4	<i>B230303A05Rik</i>	U1 small nuclear ribonucleoprotein 1C pseudogene	1,612	697
5	<i>Gm43079</i>	predicted gene 43079	423	1.0
6	<i>Gm49383</i>	predicted gene, 49383	309	167
7	<i>Cldn14</i>	claudin 14	270	119
8	<i>Gm15056</i>	predicted gene 15056	200	17
9	<i>U90926</i>	cDNA sequence U90926	190	9.9
10	<i>Stfa2</i>	stefin A2	185	90
11	<i>Prokr2</i>	prokineticin receptor 2	171	4.5
12	<i>Lbx1</i>	ladybird homeobox 1	167	105
13	<i>Cstdc5</i>	cystatin domain containing 5	123	101
14	<i>Tarm1</i>	T cell-interacting, activating receptor on myeloid cells 1	119	41
15	<i>Mrgpra2a</i>	MAS-related GPR, member A2A	88	64
16	<i>Cstdc4</i>	cystatin domain containing 4	88	80
17	<i>Gm48786</i>	predicted gene, 48786	84	32
18	<i>Gm19510</i>	predicted gene, 19510	84	4.3
19	<i>Gm32089</i>	predicted gene, 32089	74	29
20	<i>Gm5966</i>	predicted gene 5966	67	30
21	<i>Stfa3</i>	stefin A3	63	39
22	<i>Tmem132e</i>	transmembrane protein 132E	58	87
23	<i>Orm2</i>	orosomucoid 2	56	12
24	<i>Gm28551</i>	predicted gene 28551	56	63
25	<i>A630023A22Rik</i>	RIKEN cDNA A630023A22 gene	55	50
26	<i>Gm7457</i>	predicted gene 7457	54	43
27	<i>Serpina7</i>	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7	53	25
28	<i>Bmerb1</i>	bMERB domain containing 1	49	28
29	<i>Klk9</i>	kallikrein related-peptidase 9	48	29
30	<i>1700011B04Rik</i>	RIKEN cDNA 1700011B04 gene	48	15
31	<i>Asprv1</i>	aspartic peptidase, retroviral-like 1	48	12
32	<i>Dmbt1</i>	deleted in malignant brain tumors 1	48	118
33	<i>Tmprss11d</i>	transmembrane protease, serine 11d	47	7.4
34	<i>Slc5a7</i>	solute carrier family 5 (choline transporter), member 7	43	18
35	<i>Ifitm7</i>	interferon induced transmembrane protein 7	42	17
36	<i>Gm38340</i>	predicted gene, 38340	41	26
37	<i>Pglyrp3</i>	peptidoglycan recognition protein 3	41	22
38	<i>Gm26748</i>	predicted gene, 26748	40	13
39	<i>4930431P03Rik</i>	RIKEN cDNA 4930431P03 gene	39	11
40	<i>4732490B19Rik</i>	RIKEN cDNA 4732490B19 gene	38	134
41	<i>Sectm1b</i>	secreted and transmembrane 1B	37	38
42	<i>Gm4948</i>	trans-2,3-enoyl-CoA reductase pseudogene	36	229
43	<i>Gm20406</i>	predicted gene, 20406	33	5.2
44	<i>Rasl10b</i>	RAS-like, family 10, member B	33	13
45	<i>Gm36079</i>	annexin A2 receptor 2	32	12
46	<i>Sult2a3</i>	sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 3	32	3.6
47	<i>Apcs</i>	amyloid P component, serum	32	11
48	<i>Mymk</i>	myomaker, myoblast fusion factor	31	11
49	<i>Nkx2-9</i>	NK2 homeobox 9	29	3.8
50	<i>Gm26535</i>	predicted gene, 26535	29	7.5
51	<i>Rnase2a</i>	ribonuclease, RNase A family, 2A (liver, eosinophil-derived neurotoxin)	29	5.9
52	<i>Slc22a20</i>	solute carrier family 22 (organic anion transporter), member 20	28	6.0
53	<i>Stfa2l1</i>	stefin A2 like 1	28	24
54	<i>Gm4949</i>	glutamate-ammonia ligase (glutamine synthetase) pseudogene	28	81
55	<i>Gm11738</i>	predicted gene 11738	27	556
56	<i>Gm29686</i>	predicted gene, 29686	27	9.3
57	<i>Serpine3</i>	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 3	27	9.9
58	<i>Gm807</i>	predicted gene 807	26	45
59	<i>Gm26444</i>	predicted gene, 26444	26	16
60	<i>Trdv5</i>	T cell receptor delta variable 5	25	4.3
61	<i>Sult1e1</i>	sulfotransferase family 1E, member 1	25	8.6
62	<i>Serpina3e-ps</i>	serine (or cysteine) peptidase inhibitor, clade A, member 3E, pseudogene	25	16
63	<i>4930578G10Rik</i>	RIKEN cDNA 4930578G10 gene	24	22
64	<i>Gm37645</i>	predicted gene, 37645	24	3.6
65	<i>Ceacam19</i>	CEA cell adhesion molecule 19	23	3.2

66	<i>Ackr1</i>	atypical chemokine receptor 1 (Duffy blood group)	23	12
67	<i>Ms4a3</i>	membrane-spanning 4-domains, subfamily A, member 3	23	1.9
68	<i>B130046B21Rik</i>	RIKEN cDNA B130046B21 gene	23	30
69	<i>Ctcflos</i>	CCCTC-binding factor (zinc finger protein)-like, opposite strand	23	17
70	<i>Doc2b</i>	double C2, beta	23	24
71	<i>Gm49573</i>	predicted gene, 49573	22	1.0
72	<i>Gm38275</i>	predicted gene, 38275	21	6.5
73	<i>Tex44</i>	testis expressed 44	21	2.1
74	<i>Gpr22</i>	G protein-coupled receptor 22	21	11
75	<i>Ceacam10</i>	CEA cell adhesion molecule 10	21	16
76	<i>E030018B13Rik</i>	RIKEN cDNA E030018B13 gene	20	6.0
77	<i>Gm37131</i>	predicted gene, 37131	20	14
78	<i>Htr3a</i>	5-hydroxytryptamine (serotonin) receptor 3A	20	8.8
79	<i>Slc13a5</i>	solute carrier family 13 (sodium-dependent citrate transporter), member 5	20	6.6
80	<i>Nxf3</i>	nuclear RNA export factor 3	19	6.6
81	<i>Gm49427</i>	predicted gene, 49427	19	3.2
82	<i>Pde6h</i>	phosphodiesterase 6H, cGMP-specific, cone, gamma	19	10
83	<i>Ubd</i>	ubiquitin D	19	5.5
84	<i>Fcrlb</i>	Fc receptor-like B	19	7.5
85	<i>Sult2a5</i>	sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 5	19	4.1
86	<i>Tat</i>	tyrosine aminotransferase	18	11
87	<i>Gm6610</i>	predicted gene 6610	18	-1.9
88	<i>Gm44292</i>	predicted gene, 44292	18	21
89	<i>Gm44165</i>	predicted gene, 44165	17	12
90	<i>Prss22</i>	protease, serine 22	17	41
91	<i>Gm11714</i>	predicted gene 11714	16	32
92	<i>Gm49368</i>	predicted gene, 49368	16	2.6
93	<i>Gm48065</i>	predicted gene, 48065	16	23
94	<i>Aoah</i>	acyloxyacyl hydrolase	16	5.5
95	<i>Tctex1d1</i>	dynein light chain Tctex-type 5	16	2.7
96	<i>Phox2a</i>	paired-like homeobox 2a	16	19
97	<i>Slc36a3</i>	solute carrier family 36 (proton/amino acid symporter), member 3	15	5.7
98	<i>Sult2a1</i>	sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 1	15	3.2
99	<i>Gm37347</i>	predicted gene, 37347	15	6.9
100	<i>Gm50083</i>	predicted gene, 50083	15	3.7

## Suppl. Tab. ST3B. Genes with Decreased Expression in Lungs of Infected Mice

	Gene ID	Gene Name	Lungs	
			Saline	NTCI
1	<i>Tmem233</i>	transmembrane protein 233	-77	NS
2	<i>Duxbl3</i>	double homeobox B-like 1	-71	-2.2
3	<i>Rnase1</i>	ribonuclease, RNase A family, 1 (pancreatic)	-58	NS
4	<i>Defb42</i>	defensin beta 42	-57	NS
5	<i>AL935121.1</i>	predicted gene, 52968	-54	-2.2
6	<i>Zp1</i>	zona pellucida glycoprotein 1	-53	-14
7	<i>Snurf</i>	SNRPN upstream reading frame	-47	NS
8	<i>Gm25541</i>	predicted gene, 25541	-45	-19
9	<i>4933403O08Rik</i>	RIKEN cDNA 4933403O08 gene aka. testis expressed gene 16 (Tex16)	-40	NS
10	<i>1810046K07Rik</i>	POU domain, class 2, associating factor 2	-40	-7.1
11	<i>Gm5639</i>	PWWP domain containing 4, pseudogene	-38	-3.2
12	<i>Myh2</i>	myosin, heavy polypeptide 2, skeletal muscle, adult	-35	-5.0
13	<i>Gm765</i>	MyoD family inhibitor domain containing 2	-35	-6.2
14	<i>Gm50242</i>	predicted gene, 50242	-34	-9.0
15	<i>Gm6018</i>	MAD1 mitotic arrest deficient 1-like 1 pseudogene	-33	NS
16	<i>Ackr4</i>	atypical chemokine receptor 4	-28	-17
17	<i>Tnfrsf17</i>	tumor necrosis factor receptor superfamily, member 17	-28	-1.1
18	<i>Gm37858</i>	predicted gene, 37858	-28	-16
19	<i>Igkv14-130</i>	immunoglobulin kappa variable 14-130	-27	-364
20	<i>Ptprh</i>	protein tyrosine phosphatase receptor type H	-26	-14
21	<i>Gpr165</i>	G protein-coupled receptor 165	-25	NS
22	<i>Gm47652</i>	predicted gene, 47652	-25	-4.9
23	<i>Gm16534</i>	family with sequence similarity 78, member A	-23	-1.4
24	<i>0610012D04Rik</i>	RIKEN cDNA 0610012D04 gene	-23	-13
25	<i>Gm36569</i>	predicted gene, 36569	-23	-5.2
26	<i>GzmK</i>	granzyme K	-23	-8.1
27	<i>Gm9918</i>	predicted gene 9918	-21	-1.8
28	<i>Gm33677</i>	predicted gene, 33677	-19	-1.3
29	<i>St6gal2</i>	beta galactoside alpha 2,6 sialyltransferase 2	-19	-5.7
30	<i>Krtap17-1</i>	keratin associated protein 17-1	-18	-2.5
31	<i>Olf1342</i>	olfactory receptor family 13 subfamily P member 4	-17	-136
32	<i>Lhcgr</i>	luteinizing hormone/choriogonadotropin receptor	-17	-5.8
33	<i>Ccdc42</i>	coiled-coil domain containing 42	-16	-8.6
34	<i>Zfp985</i>	zinc finger protein 985	-16	-4.5
35	<i>Igkv4-70</i>	immunoglobulin kappa chain variable 4-70	-16	-14
36	<i>Gm31517</i>	predicted gene, 31517	-15	-5.3
37	<i>Gm9767</i>	predicted gene 9767	-14	-1.2
38	<i>Olf71</i>	olfactory receptor family 13 subfamily J member 1	-14	-13
39	<i>Slc26a3</i>	solute carrier family 26, member 3	-13	-9.7
40	<i>Trpv3</i>	transient receptor potential cation channel, subfamily V, member 3	-13	-3.6
41	<i>Gm49727</i>	predicted gene, 49727	-13	-8.4
42	<i>Gm43951</i>	RIKEN cDNA 4933427D14 gene	-13	-2.0
43	<i>E330018M18Rik</i>	RIKEN cDNA E330018M18 gene	-13	-9.8
44	<i>Calcb</i>	calcitonin-related polypeptide, beta	-13	-3.1
45	<i>Rspo2</i>	R-spondin 2	-12	-18
46	<i>Glp1r</i>	glucagon-like peptide 1 receptor	-12	-13
47	<i>Fam124b</i>	family with sequence similarity 124, member B	-12	-10
48	<i>Amt1</i>	amelotin	-12	-3.9
49	<i>4930570G19Rik</i>	RIKEN cDNA 4930570G19 gene	-12	-2.9
50	<i>Gm11574</i>	predicted gene 11574	-12	-4.5
51	<i>Pla2g2e</i>	phospholipase A2, group IIE	-11	-1.1
52	<i>Sfrp2</i>	secreted frizzled-related protein 2	-11	-6.5
53	<i>Pigz</i>	phosphatidylinositol glycan anchor biosynthesis, class Z	-11	-6.5
54	<i>Gm13688</i>	predicted gene 13688	-11	-3.5
55	<i>Abca14</i>	ATP-binding cassette, sub-family A (ABC1), member 14	-11	-1.0
56	<i>B530045E10Rik</i>	RIKEN cDNA B530045E10 gene	-10	-4.2
57	<i>Fras1</i>	Fraser extracellular matrix complex subunit 1	-10	-3.0
58	<i>Gm12159</i>	predicted gene 12159	-10	-2.4
59	<i>Gm48488</i>	predicted gene, 48488	-10	-2.5
60	<i>9030404E10Rik</i>	RIKEN cDNA 9030404E10 gene	-10	-12
61	<i>Hmch1</i>	hemicentin 1	-10	-3.0
62	<i>Igkv4-68</i>	immunoglobulin kappa variable 4-68	-10	-15
63	<i>Wnt7a</i>	wingless-type MMTV integration site family, member 7A	-10	-15
64	<i>Tmem74</i>	transmembrane protein 74	-9.9	-5.9
65	<i>Ighv1-66</i>	immunoglobulin heavy variable 1-66	-9.9	-31
66	<i>Cr2</i>	complement receptor 2	-9.5	-5.6



67	<i>Slc5a11</i>	solute carrier family 5 (sodium/glucose cotransporter), member 11	-9.5	-71
68	<i>Lrrc17</i>	leucine rich repeat containing 17	-9.3	-6.6
69	<i>Slc22a14</i>	solute carrier family 22 (organic cation transporter), member 14	-9.2	-1.7
70	<i>Dipk2b</i>	divergent protein kinase domain 2B	-9.1	-11
71	<i>Fgf18</i>	fibroblast growth factor 18	-9.0	-5.6
72	<i>Ndp</i>	Norrie disease (pseudoglioma) (human)	-8.9	-4.6
73	<i>Gm17334</i>	predicted gene, 17334	-8.9	-5.7
74	<i>Btnl2</i>	butyrophilin-like 2	-8.9	-6.7
75	<i>Gm10432</i>	predicted gene 10432	-8.9	-3.6
76	<i>Colq</i>	collagen-like tail subunit (single strand or homotrimer) of asymmetric acetylcholinesterase	-8.8	-3.2
77	<i>Gm48662</i>	predicted gene, 48662	-8.8	-7.2
78	<i>4833412C05Rik</i>	RIKEN cDNA 4833412C05 gene	-8.7	-2.6
79	<i>Gm12576</i>	predicted gene 12576	-8.7	-5.3
80	<i>Igkv6-17</i>	immunoglobulin kappa variable 6-17	-8.5	-8.2
81	<i>Gm13816</i>	predicted gene 13816	-8.3	-8.4
82	<i>Tmem266</i>	transmembrane protein 266	-8.3	1.2
83	<i>Ighv5-6</i>	immunoglobulin heavy variable 5-6	-8.3	-67
84	<i>Cntn4</i>	contactin 4	-8.3	-2.0
85	<i>Rbp7</i>	retinol binding protein 7, cellular	-8.1	-2.3
86	<i>Insyn2a</i>	inhibitory synaptic factor 2A	-8.0	-3.4
87	<i>Slc5a12</i>	solute carrier family 5 (sodium/glucose cotransporter), member 12	-7.9	-3.1
88	<i>Gm9947</i>	predicted gene 9947	-7.9	-3.3
89	<i>Igkv12-89</i>	immunoglobulin kappa chain variable 12-89	-7.8	-7.3
90	<i>Gm26795</i>	predicted gene, 26795	-7.8	-2.0
91	<i>Ddx4</i>	DEAD box helicase 4	-7.7	-1.5
92	<i>Dclk3</i>	doublecortin-like kinase 3	-7.6	-16
93	<i>Hpcal4</i>	hippocalcin-like 4	-7.6	-3.3
94	<i>Ndnf</i>	neuron-derived neurotrophic factor	-7.5	-8.3
95	<i>Igkv17-121</i>	immunoglobulin kappa variable 17-121	-7.5	-10
96	<i>Slurp1</i>	secreted Ly6/Plaur domain containing 1	-7.4	-3.3
97	<i>Ano4</i>	anoctamin 4	-7.4	-1.7
98	<i>Ighv1-7</i>	immunoglobulin heavy variable V1-7	-7.3	-3.5
99	<i>Rimkb</i>	ribosomal modification protein rimK-like family member B	-7.2	-4.8
100	<i>Igkv4-80</i>	immunoglobulin kappa variable 4-80	-7.2	-10

Suppl. Tab. ST3A. Genes with Increased Expression in Kidneys of Infected Mice

	Gene ID	Gene Name	Kidneys	
			Saline	NTCI
1	<i>Epx</i>	eosinophil peroxidase	118	231
2	<i>Gm26965</i>	predicted gene, 26965	100	30
3	<i>Reg3g</i>	regenerating islet-derived 3 gamma	83	116
4	<i>Cela3b</i>	chymotrypsin-like elastase family, member 3B	70	-1.0
5	<i>Gm12503</i>	predicted gene 12503	64	32
6	<i>Gpbar1</i>	G protein-coupled bile acid receptor 1	60	266
7	<i>Dnah6</i>	dynein, axonemal, heavy chain 6	58	47
8	<i>Fut2</i>	fucosyltransferase 2	50	252
9	<i>Muc4</i>	mucin 4	49	87
10	<i>Gm43189</i>	predicted gene 43189	37	15
11	<i>Angptl7</i>	angiopoietin-like 7	37	11
12	<i>Pcdh8</i>	protocadherin 8	32	49
13	<i>Sftpa1</i>	surfactant associated protein A1	32	21
14	<i>Mlana</i>	melan-A	32	9.7
15	<i>Gm16350</i>	predicted gene 16350	31	24
16	<i>Syt2</i>	synaptotagmin II	30	15
17	<i>Gm17055</i>	predicted gene 17055	29	29
18	<i>Ppy</i>	pancreatic polypeptide	29	3.5
19	<i>Ccdc33</i>	coiled-coil domain containing 33	29	10
20	<i>Gm33280</i>	predicted gene, 33280	28	8.9
21	<i>Gm45643</i>	predicted gene 45643	27	15
22	<i>Lrit3</i>	leucine-rich repeat, immunoglobulin-like and transmembrane domains 3	26	24
23	<i>Sbk2</i>	SH3-binding domain kinase family, member 2	26	26
24	<i>Slc6a19os</i>	solute carrier family 6 (neurotransmitter transporter), member 19, opposite strand	26	43
25	<i>Slamf1</i>	signaling lymphocytic activation molecule family member 1	26	39
26	<i>Gm5541</i>	TD and POZ domain containing 4 pseudogene	26	3.8
27	<i>Fgf21</i>	fibroblast growth factor 21	25	5.5
28	<i>Gm49392</i>	predicted gene, 49392	25	13
29	<i>Slc6a16</i>	solute carrier family 6, member 16	24	-1.0
30	<i>Olr1</i>	oxidized low density lipoprotein (lectin-like) receptor 1	24	13
31	<i>Gm35028</i>	predicted gene, 35028	23	15
32	<i>Slfm4</i>	schlafen 4	23	14
33	<i>Gm20548</i>	predicted gene 20548	22	9.3
34	<i>Gm40709</i>	predicted gene, 40709	22	9.2
35	<i>Speer4f2</i>	spermatogenesis associated glutamate (E)-rich protein 4f2	21	19
36	<i>Gm13363</i>	predicted gene 13363	21	14
37	<i>Egr2</i>	early growth response 2	20	11
38	<i>Gm44260</i>	predicted gene, 44260	19	4.3
39	<i>Marc1</i>	mitochondrial amidoxime reducing component 1	19	23
40	<i>Crygn</i>	crystallin, gamma N	19	4.5
41	<i>Lpo</i>	lactoperoxidase	18	24
42	<i>Gabrp</i>	gamma-aminobutyric acid (GABA) A receptor, pi	17	15
43	<i>Bpifc</i>	BPI fold containing family C	17	5.0
44	<i>Fgf18</i>	fibroblast growth factor 18	17	11
45	<i>Lncenc1</i>	long non-coding RNA, embryonic stem cells expressed 1	17	9.1
46	<i>Prss27</i>	protease, serine 27	17	39
47	<i>Muc19</i>	mucin 19	16	6.9
48	<i>Gm39929</i>	predicted gene, 39929	16	3.5
49	<i>Gm2670</i>	predicted gene 2670	16	6.7
50	<i>5830487J09Rik</i>	RIKEN cDNA 5830487J09 gene	15	10.0
51	<i>Olf1442</i>	olfactory receptor family 5 subfamily B member 94	15	21
52	<i>Krt20</i>	keratin 20	14	30
53	<i>Gm19684</i>	predicted gene, 19684	14	1.9
54	<i>Gm33424</i>	predicted gene, 33424	14	55
55	<i>4732419C18Rik</i>	RIKEN cDNA 4732419C18 gene	14	30
56	<i>Gm37621</i>	predicted gene, 37621	14	13
57	<i>Creb3l3</i>	cAMP responsive element binding protein 3-like 3	13	5.9
58	<i>Gm14319</i>	predicted gene 14319	13	18
59	<i>Dnah10</i>	dynein, axonemal, heavy chain 10	12	12
60	<i>Areg</i>	amphiregulin	12	24
61	<i>Armc12</i>	armadillo repeat containing 12	12	29
62	<i>Eif4ebp3</i>	eukaryotic translation initiation factor 4E binding protein 3	12	20
63	<i>Gdf6</i>	growth differentiation factor 6	11	4.8
64	<i>Gm49037</i>	predicted gene, 49037	11	11
65	<i>Gm42793</i>	predicted gene 42793	11	41
66	<i>Der13</i>	Der1-like domain family, member 3	11	5.5

67	<i>Nptx2</i>	neuronal pentraxin 2	11	23
68	<i>Atp12a</i>	ATPase, H+/K+ transporting, nongastric, alpha polypeptide	10	6.9
69	<i>Kcna7</i>	potassium voltage-gated channel, shaker-related subfamily, member 7	10	3.3
70	<i>Prg4</i>	proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein)	9.8	4.7
71	<i>Ctla4</i>	cytotoxic T-lymphocyte-associated protein 4	9.8	16
72	<i>Gm44164</i>	predicted gene, 44164	9.4	5.7
73	<i>Mmp7</i>	matrix metalloproteinase 7	9.2	4.7
74	<i>Gm44949</i>	predicted gene 44949	9.2	8.9
75	<i>Slc17a8</i>	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 8	8.9	2.9
76	<i>Lamb3</i>	laminin, beta 3	8.7	5.9
77	<i>Plekhs1</i>	pleckstrin homology domain containing, family S member 1	8.7	19
78	<i>Trim17</i>	tripartite motif-containing 17	8.7	2.8
79	<i>Dusp8</i>	dual specificity phosphatase 8	8.7	6.2
80	<i>4930422C21Rik</i>	RIKEN cDNA 4930422C21 gene	8.6	3.7
81	<i>Gm10727</i>	predicted gene 10727	8.6	2.3
82	<i>Col27a1</i>	collagen, type XXVII, alpha 1	8.5	8.5
83	<i>Tacc2</i>	transforming, acidic coiled-coil containing protein 2	8.3	5.9
84	<i>Fat2</i>	FAT atypical cadherin 2	8.3	2.4
85	<i>Lif</i>	leukemia inhibitory factor	8.1	20
86	<i>Klk1b1</i>	kallikrein 1-related peptidase b1	8.0	4.6
87	<i>Tsc22d1</i>	TSC22 domain family, member 1	7.9	11
88	<i>Wnt8b</i>	wingless-type MMTV integration site family, member 8B	7.8	20
89	<i>Grem1</i>	gremlin 1, DAN family BMP antagonist	7.7	14
90	<i>Hesx1</i>	homeobox gene expressed in ES cells	7.7	15
91	<i>Hhpl1</i>	hedgehog interacting protein-like 1	7.7	5.3
92	<i>Ugt1a5</i>	UDP glucuronosyltransferase 1 family, polypeptide A5	7.6	1.3
93	<i>Klk1b4</i>	kallikrein 1-related peptidase b4	7.5	15
94	<i>Gm8947</i>	predicted gene 8947	7.4	6.0
95	<i>A530013C23Rik</i>	RIKEN cDNA A530013C23 gene	7.4	9.5
96	<i>Myk4</i>	myosin light chain kinase family, member 4	7.3	3.6
97	<i>Cyp2a5</i>	cytochrome P450, family 2, subfamily a, polypeptide 5	7.2	9.0
98	<i>Muc1</i>	mucin 1, transmembrane	6.9	4.5
99	<i>Gm44588</i>	predicted gene 44588	6.9	2.6
100	<i>Gm45053</i>	predicted gene 45053	6.8	10

## Suppl. Tab. ST3B. Genes with Decreased Expression in Kidneys of Infected Mice

	Gene ID	Gene Name	Kidneys	
			Saline	NTCI
1	<i>Cyp11b1</i>	cytochrome P450, family 11, subfamily b, polypeptide 1	-70,748	-1,178
2	<i>Cyp11a1</i>	cytochrome P450, family 11, subfamily a, polypeptide 1	-27,744	-483
3	<i>Akr1cl</i>	aldo-keto reductase family 1, member C-like	-17,566	-884
4	<i>Hsd3b1</i>	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1	-11,966	-476
5	<i>Scg2</i>	secretogranin II	-4,862	-674
6	<i>Th</i>	tyrosine hydroxylase	-4,501	-344
7	<i>Cyp21a1</i>	cytochrome P450, family 21, subfamily a, polypeptide 1	-3,966	-495
8	<i>Chga</i>	chromogranin A	-3,318	-793
9	<i>Cyp21a2-ps</i>	cytochrome P450, family 21, subfamily a, polypeptide 2 pseudogene	-1,979	-443
10	<i>Pnmt</i>	phenylethanolamine-N-methyltransferase	-1,705	-322
11	<i>Chgb</i>	chromogranin B	-1,447	-508
12	<i>Cyp11b2</i>	cytochrome P450, family 11, subfamily b, polypeptide 2	-1,274	-114
13	<i>Caln1</i>	calneuron 1	-1,121	NS
14	<i>Kcnk9</i>	potassium channel, subfamily K, member 9	-1,062	-238
15	<i>Dbh</i>	dopamine beta hydroxylase	-912	-641
16	<i>Gm28382</i>	predicted gene 28382	-869	-348
17	<i>Pla2g2f</i>	phospholipase A2, group IIF	-851	NS
18	<i>Nr5a1</i>	nuclear receptor subfamily 5, group A, member 1	-843	-988
19	<i>Pcsk1n</i>	proprotein convertase subtilisin/kexin type 1 inhibitor	-707	-97
20	<i>Mgarp</i>	mitochondria localized glutamic acid rich protein	-666	-244
21	<i>4930486L24Rik</i>	RIKEN cDNA 4930486L24 gene	-630	-23
22	<i>Cryba4</i>	crystallin, beta A4	-549	-43
23	<i>Atp2b3</i>	ATPase, Ca <sup>++</sup> transporting, plasma membrane 3	-541	NS
24	<i>Resp18</i>	regulated endocrine-specific protein 18	-510	-332
25	<i>E330017L17Rik</i>	RIKEN cDNA E330017L17 gene	-473	-154
26	<i>Pcsk1</i>	proprotein convertase subtilisin/kexin type 1	-468	-57
27	<i>Snap25</i>	synaptosomal-associated protein 25	-448	NS
28	<i>Rims4</i>	regulating synaptic membrane exocytosis 4	-352	-271
29	<i>Slc24a2</i>	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	-344	NS
30	<i>Phox2b</i>	paired-like homeobox 2b	-316	NS
31	<i>Slc18a2</i>	solute carrier family 18 (vesicular monoamine), member 2	-286	-31
32	<i>Eef1a2</i>	eukaryotic translation elongation factor 1 alpha 2	-271	-181
33	<i>Chrna3</i>	cholinergic receptor, nicotinic, alpha polypeptide 3	-260	-169
34	<i>Hand2os1</i>	Hand2, opposite strand 1	-240	NS
35	<i>Cntnap5a</i>	contactin associated protein-like 5A	-240	-38
36	<i>Rasgrf1</i>	RAS protein-specific guanine nucleotide-releasing factor 1	-236	-26
37	<i>Hand2</i>	heart and neural crest derivatives expressed 2	-226	-951
38	<i>Pnma1</i>	PNMA family member 8A	-221	-144
39	<i>Necab2</i>	N-terminal EF-hand calcium binding protein 2	-184	-44
40	<i>Tbx20</i>	T-box 20	-182	NS
41	<i>Stmn3</i>	stathmin-like 3	-163	-22
42	<i>Gm17322</i>	predicted gene, 17322	-154	-17
43	<i>St8sia3</i>	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3	-148	NS
44	<i>Rab33a</i>	RAB33A, member RAS oncogene family	-145	-97
45	<i>Synpr</i>	synaptoporin	-140	-11
46	<i>Rit2</i>	Ras-like without CAAX 2	-110	-11
47	<i>Camkv</i>	CaM kinase-like vesicle-associated	-107	NS
48	<i>Gdap1</i>	ganglioside-induced differentiation-associated-protein 1	-105	NS
49	<i>Soga3</i>	SOGA family member 3	-99	NS
50	<i>Mdga2</i>	MAM domain containing glycosylphosphatidylinositol anchor 2	-99	-10
51	<i>Mab21l2</i>	mab-21-like 2	-96	-122
52	<i>Nrsn1</i>	neurensin 1	-93	-61
53	<i>Cadps</i>	Ca <sup>2+</sup> -dependent secretion activator	-91	-37
54	<i>Gnb3</i>	guanine nucleotide binding protein (G protein), beta 3	-83	NS
55	<i>1520401A03Rik</i>	glycine rich extracellular protein 1	-82	NS
56	<i>Nrg3</i>	neuregulin 3	-82	NS
57	<i>Spock1</i>	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1	-81	-8.7
58	<i>Cdk5r2</i>	cyclin dependent kinase 5, regulatory subunit 2 (p39)	-78	NS
59	<i>Ina</i>	internexin neuronal intermediate filament protein, alpha	-76	-26
60	<i>Actl6b</i>	actin-like 6B	-75	NS
61	<i>Npy2r</i>	neuropeptide Y receptor Y2	-74	-21
62	<i>Gal</i>	galanin and GMAP prepropeptide	-70	-49
63	<i>Nrsn2</i>	neurensin 2	-69	NS
64	<i>Gabrg2</i>	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2	-69	NS
65	<i>Gpr158</i>	G protein-coupled receptor 158	-68	NS
66	<i>Slc7a14</i>	solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 14	-68	-32

67	<i>Sphkap</i>	SPHK1 interactor, AKAP domain containing	-67	-51
68	<i>Tmem255a</i>	transmembrane protein 255A	-67	-61
69	<i>8430419K02Rik</i>	RIKEN cDNA 8430419K02 gene	-66	-2.9
70	<i>Scg3</i>	secretogranin III	-65	-27.6
71	<i>Gria1</i>	glutamate receptor, ionotropic, AMPA1 (alpha 1)	-65	-11
72	<i>Txndc2</i>	thioredoxin domain containing 2 (spermatozoa)	-63	-59
73	<i>Gm27477</i>	predicted gene, 27477	-63	-2.9
74	<i>Gria2</i>	glutamate receptor, ionotropic, AMPA2 (alpha 2)	-62	-154
75	<i>Gjd2</i>	gap junction protein, delta 2	-62	NS
76	<i>Lrrtm2</i>	leucine rich repeat transmembrane neuronal 2	-62	-2.0
77	<i>Hsd3b6</i>	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 6	-62	-52
78	<i>Diras1</i>	DIRAS family, GTP-binding RAS-like 1	-62	-40
79	<i>Omg</i>	oligodendrocyte myelin glycoprotein	-61	NS
80	<i>Gm49391</i>	predicted gene, 49391	-60	-6.3
81	<i>Fam155a</i>	NALCN channel auxiliary factor 1	-59	-14.6
82	<i>Gm2007</i>	predicted gene 2007	-59	-4.6
83	<i>Kcnq2</i>	potassium voltage-gated channel, subfamily Q, member 2	-58	-38
84	<i>Gm42372</i>	PNMA family member 8C	-57	-5.8
85	<i>Isl1</i>	ISL1 transcription factor, LIM/homeodomain	-57	-7.2
86	<i>Lingo3</i>	leucine rich repeat and Ig domain containing 3	-57	-20
87	<i>Prl8a2</i>	prolactin family 8, subfamily a, member 2	-57	NS
88	<i>Adh7</i>	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide	-56	-20
89	<i>Lgi1</i>	leucine-rich repeat LGI family, member 1	-53	-7.1
90	<i>Gm47815</i>	predicted gene, 47815	-53	NS
91	<i>Gm14592</i>	splicing factor 3a, subunit 3 pseudogene	-52	NS
92	<i>Cdx4</i>	caudal type homeobox 4	-52	-21
93	<i>Marcks11-ps4</i>	MARCKS-like 1, pseudogene 4	-52	-3.1
94	<i>Sstr3</i>	somatostatin receptor 3	-48	-3.1
95	<i>Pcdh10</i>	protocadherin 10	-47	-8.6
96	<i>Gm27000</i>	predicted gene, 27000	-47	NS
97	<i>Tub</i>	tubby bipartite transcription factor	-47	-20
98	<i>Mc2r</i>	melanocortin 2 receptor	-46	-53
99	<i>Il20ra</i>	interleukin 20 receptor, alpha	-44	-7.0
100	<i>Grin2a</i>	glutamate receptor, ionotropic, NMDA2A (epsilon 1)	-43	-28