

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW434308	1.00	36.90	-1.86	C12orf44	chromosome 12 open reading frame 44
AI412189	1.00	20.79	6.15	Igh-2	immunoglobulin heavy chain 2 (serum IgA)
NM_017081.1	1.00	14.95	23.06	Hsd11b2	hydroxysteroid (11-beta) dehydrogenase 2
BF416240	1.00	9.71	8.87	Loc283677	hypothetical LOC283677
NM_031150.1	1.00	8.33	2.67	Zp2	zona pellucida glycoprotein 2 (sperm receptor)
AW251681	1.00	7.69	7.53	Null	UI-R-BJ0-ADP-F-06-0-UI.S1 UI-R-BJ0
AW915407	1.00	6.45	7.68	Null	EST346711
NM_022507.1	1.00	6.33	3.21	Prkcz	protein kinase C, zeta
NM_053719.1	1.00	6.10	16.89	Emb	embigin homolog (mouse)
NM_012676.1	1.00	5.49	3.51	Tnnt2	troponin T type 2 (cardiac)
BE100748	1.00	5.29	3.16	C13orf30	chromosome 13 open reading frame 30
AW919277	1.00	5.03	3.83	Capds2	Ca2+-dependent activator protein for secretion 2
BF401313	1.00	4.98	9.01	Ppp1r14c	protein phosphatase 1, regulatory (inhibitor) subunit 14C
NM_017325.1	1.00	4.72	7.62	Runx1	runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)
AW918418	1.00	4.57	5.32	Dusp13	dual specificity phosphatase 13
NM_019145.1	1.00	4.57	4.85	Chrng	cholinergic receptor, nicotinic, gamma
NM_031688.1	1.00	4.46	9.04	Sncg	synuclein, gamma (breast cancer-specific protein 1)
NM_031509.1	1.00	4.31	3.91	Gsta1	glutathione S-transferase A1
NM_017139.1	1.00	4.31	2.73	Penk	proenkephalin
AW915595	1.00	3.98	2.53	Adipoq	adiponectin, C1Q and collagen domain containing
AW918022	1.00	3.98	2.48	Mamdc2	MAM domain containing 2
BF419319	1.00	3.95	5.61	Oasl1	2'-5'-oligoadenylate synthetase-like
AF322216	1.00	3.89	2.80	Igsf1	immunoglobulin superfamily, member 1
BE113616	1.00	3.73	2.84	C4orf19	chromosome 4 open reading frame 19
NM_133424.1	1.00	3.69	3.43	Actn3	actinin, alpha 3
BF563467	1.00	3.65	2.43	Ccdc92	coiled-coil domain containing 92
BF419671	1.00	3.64	6.59	Ay616753	glutaredoxin, cysteine rich 1
AB000199	1.00	3.56	4.23	Hsd3b7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7
AI555341	1.00	3.56	1.65	Null	UI-R-C2P-QW-E-02-0-UI.S1 UI-R-C2P
AW918222	1.00	3.48	2.79	Tor3a	torsin family 3, member A
AA891949	1.00	3.45	3.93	Ak3l1	adenylate kinase 3-like 2

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_012974.1	1.00	3.41	3.01	Lamb2	laminin, beta 2 (laminin 5)
NM_080782.1	1.00	3.37	6.68	Cdkn1a	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
NM_024127.1	1.00	3.36	8.23	Gadd45a	growth arrest and DNA-damage-inducible, alpha
NM_017000.1	1.00	3.27	2.58	Nqo1	NAD(P)H dehydrogenase, quinone 1
NM_053922.1	1.00	3.23	4.34	Acacb	acetyl-Coenzyme A carboxylase beta
AA818377	1.00	3.23	4.20	Znf385b	zinc finger protein 385B
AI102517	1.00	3.22	6.35	Null	EST211806 NORMALIZED RAT EMBRYO, BENTO SOARES
NM_030875.1	1.00	3.03	4.41	Scn1a	sodium channel, voltage-gated, type I, alpha subunit
BF565344	1.00	3.02	3.22	Cnnm1_predicted	cyclin M1
NM_019298.1	1.00	2.99	4.63	Chrnd	cholinergic receptor, nicotinic, delta
BF412303	1.00	2.99	2.30	Ppm1l	protein phosphatase 1 (formerly 2C)-like
AI409738	1.00	2.97	3.32	Null	EST238030 NORMALIZED RAT PLACENTA, BENTO SOARES
M14050	1.00	2.91	3.93	Hspa5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
NM_053601.1	1.00	2.84	1.92	Nnat	neuronatin
AI717140	1.00	2.82	1.91	Tmem179	transmembrane protein 179
NM_138519.1	1.00	2.79	1.83	Dkk3	dickkopf homolog 3 (Xenopus laevis)
NM_012861.1	1.00	2.77	2.35	Mgmt	O-6-methylguanine-DNA methyltransferase
NM_019315.1	1.00	2.75	6.09	Kcnn3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
NM_053669.1	1.00	2.74	2.26	Sh2b2	SH2B adaptor protein 2
BE113655	1.00	2.68	1.79	Doc2g	double C2, gamma
AI230548	1.00	2.66	3.57	Ythdf2_predicted	YTH domain family, member 2
NM_031143.1	1.00	2.61	2.21	Dgkz	diacylglycerol kinase, zeta 104kDa
NM_012874.1	1.00	2.60	1.95	Ros1	c-ros oncogene 1 , receptor tyrosine kinase
NM_030872.1	1.00	2.56	2.79	Pdk2	pyruvate dehydrogenase kinase, isozyme 2
AI011713	1.00	2.53	3.85	Null	EST206164 NORMALIZED RAT OVARY, BENTO SOARES
NM_017093.1	1.00	2.53	4.13	Akt2	v-akt murine thymoma viral oncogene homolog 2
BF288240	1.00	2.50	3.87	Cdkn2b	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
BF404878	1.00	2.48	1.02	Null	UI-R-CA1-BIC-G-03-O-UI.S1 UI-R-CA1
AW143214	1.00	2.47	3.14	Null	EST293510 NORMALIZED RAT BRAIN, BENTO SOARES
NM_020082.1	1.00	2.46	3.61	Rnase4	ribonuclease, RNase A family, 4
NM_012543.1	1.00	2.45	2.26	Dbp	D site of albumin promoter (albumin D-box) binding protein

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW914913	1.00	2.44	1.62	Null	EST346217
NM_053718.1	1.00	2.41	4.37	MLlt3	myeloid/lymphoid or mixed-lineage leukemia
AI639157	1.00	2.40	1.44	Trap1	TNF receptor-associated protein 1
AW524724	1.00	2.39	5.81	Ryr3	ryanodine receptor 3
NM_012827.1	1.00	2.39	1.99	Bmp4	bone morphogenetic protein 4
NM_017288.1	1.00	2.39	2.14	Scn1b	sodium channel, voltage-gated, type I, beta
AA943114	1.00	2.38	3.21	Null	EST198613 NORMALIZED RAT BRAIN, BENTO SOARES
AA943742	1.00	2.37	1.81	Lsm3	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)
NM_053608.1	1.00	2.37	1.02	Kcnj13	potassium inwardly-rectifying channel, subfamily J, member 13
BF407456	1.00	2.35	2.57	Obfc1	oligonucleotide/oligosaccharide-binding fold containing 1
NM_031819.1	1.00	2.35	1.43	Fat	FAT tumor suppressor homolog 1 (Drosophila)
NM_019205.1	1.00	2.34	1.62	Ccl11	chemokine (C-C motif) ligand 11
AW914045	1.00	2.33	2.79	Eps8l2_predicted	EPS8-like 2
NM_012846.1	1.00	2.33	2.67	Fgf1	fibroblast growth factor 1 (acidic)
BE100016	1.00	2.29	1.82	Stard10	StAR-related lipid transfer (START) domain containing 10
NM_019298.1	1.00	2.28	2.84	Chrnd	cholinergic receptor, nicotinic, delta
NM_012561.1	1.00	2.27	3.75	Fst	follistatin
BE107334	1.00	2.26	3.17	Null	UI-R-BS1-AYS-E-09-0-UI.S1 UI-R-BS1
NM_053977.1	1.00	2.25	1.15	Cdh17	cadherin 17, LI cadherin (liver-intestine)
AW917185	1.00	2.25	2.43	Armet_predicted	arginine-rich, mutated in early stage tumors
NM_024384.1	1.00	2.25	2.25	Thoc6	THO complex 6 homolog (Drosophila)
AJ277957	1.00	2.24	2.37	Tcag7.1260	similar to aldo-keto reductase family 1, member B10
AW919170	1.00	2.23	2.69	Raly	RNA binding protein, autoantigenic (hnRNP-associated with lethal yellow homolog
AW433866	1.00	2.19	2.12	Null	UI-R-BJ0P-AFM-E-09-0-UI.S1 UI-R-BJ0P
AI600036	1.00	2.18	2.01	Null	EST251739 NORMALIZED RAT EMBRYO, BENTO SOARES
NM_031712.1	1.00	2.17	1.39	Pdzk1	PDZ domain containing 1
AI230729	1.00	2.17	2.15	Znf513	zinc finger protein 513
NM_031971.1	1.00	2.15	2.72	Hspa1b	heat shock 70kDa protein 1B
AI137406	1.00	2.15	1.77	Procr	protein C receptor, endothelial (EPCR)
BF551173	1.00	2.14	1.06	Null	UI-R-C1-JV-A-11-0-UI.R1 UI-R-C1
NM_012627.1	1.00	2.12	1.67	Pkib	protein kinase (cAMP-dependent, catalytic) inhibitor beta

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_053612.1	1.00	2.11	2.62	Hspb8	heat shock 22kDa protein 8
AW143212	1.00	2.11	2.24	Pfdn2	prefoldin subunit 2
BF551250	1.00	2.09	1.30	Fkbp5	FK506 binding protein 5
AI013474	1.00	2.09	3.43	Abhd2_predicted	abhydrolase domain containing 2
NM_012531.1	1.00	2.09	2.24	Comt	catechol-O-methyltransferase
NM_020101.1	1.00	2.09	1.96	Centa2	centaurin, alpha 2
BE106888	1.00	2.07	2.30	Crel2	cysteine-rich with EGF-like domains 2
NM_030865.1	1.00	2.07	2.05	Myoc	myocilin, trabecular meshwork inducible glucocorticoid response
NM_013172.1	1.00	2.07	3.14	Myf6	myogenic factor 6 (herculin)
NM_031708.1	1.00	2.06	1.73	Adrm1	adhesion regulating molecule 1
BF558694	1.00	2.05	3.17	Rab27a	RAB27A, member RAS oncogene family
NM_017131.1	1.00	2.02	2.93	Casq2	calsequestrin 2 (cardiac muscle)
AI230728	1.00	2.01	1.94	Snrpa	small nuclear ribonucleoprotein polypeptide A
BF567803	1.00	2.01	2.76	Null	UI-R-BO0-AHM-D-03-0-UI.R1 UI-R-BO0
NM_057190.1	1.00	2.01	1.05	Nelf	nasal embryonic LHRH factor
NM_012778.1	1.00	2.00	1.80	Aqp1	aquaporin 1 (Colton blood group)
BE106058	1.00	2.00	1.93	Null	UI-R-BO1-ASK-D-07-0-UI.S1 UI-R-BO1
AA850544	1.00	1.99	2.38	Nxx6-2	NK6 homeobox 2
NM_017189.1	1.00	1.98	2.18	Asgr2	asialoglycoprotein receptor 2
BE114586	1.00	1.96	2.50	Cdkn1a	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
AI010950	1.00	1.96	2.19	Null	EST205401 NORMALIZED RAT MUSCLE, BENTO SOARES
AF267197	1.00	1.96	2.36	Tox4	TOX high mobility group box family member 4
BE111776	1.00	1.96	1.82	Null	UI-R-BJ1-AVX-F-10-0-UI.S1 UI-R-BJ1
AW918650	1.00	1.96	1.62	Chchd6_predicted	coiled-coil-helix-coiled-coil-helix domain containing 6
D10699	1.00	1.96	1.39	Uchl1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
U77880	1.00	1.94	2.95	PDE7a	phosphodiesterase 7A
AF112256	1.00	1.94	2.28	Ryr1	ryanodine receptor 1, skeletal muscle
AI102804	1.00	1.94	1.99	Null	EST212093 NORMALIZED RAT EMBRYO, BENTO SOARES
AI008969	1.00	1.94	2.03	Null	EST203420 NORMALIZED RAT EMBRYO, BENTO SOARES
H35261	1.00	1.93	1.75	Null	EST104829 RAT PC-12 CELLS, UNTREATED
NM_012604.1	1.00	1.93	3.55	Myh3	myosin, heavy chain 3, skeletal muscle, embryonic

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_017101.1	1.00	1.93	1.97	Ppia	peptidylprolyl isomerase A (cyclophilin A)
NM_133303.1	1.00	1.91	1.75	Bhlhb3	basic helix-loop-helix domain containing, class B, 3
AI233343	1.00	1.90	1.47	Asrgl1	asparaginase like 1
AI407409	1.00	1.90	1.45	Xkr8	XK, Kell blood group complex subunit-related family, member 8
AI408984	1.00	1.89	1.89	Rfwd3	ring finger and WD repeat domain 3
AI137488	1.00	1.89	2.59	Pgrmc2	progesterone receptor membrane component 2
AW143263	1.00	1.87	2.12	Rich2	Rho-type GTPase-activating protein RICH2
AI548760	1.00	1.87	1.81	ngdn	neuroguidin, EIF4E binding protein
AI007936	1.00	1.85	1.47	Null	EST202387 NORMALIZED RAT BRAIN, BENTO SOARES
NM_020106.1	1.00	1.83	1.82	Or1n1	olfactory receptor, family 1, subfamily N, member 1
BF285109	1.00	1.83	1.37	Pck1	phosphoenolpyruvate carboxykinase 1 (soluble)
AI104125	1.00	1.83	1.14	Mrps27_predicted	mitochondrial ribosomal protein S27
NM_031544.1	1.00	1.82	3.74	Ampd3	adenosine monophosphate deaminase (isoform E)
AA818999	1.00	1.82	2.25	Loc680445	similar to muscleblind-like 2 isoform 1
AA848958	1.00	1.81	1.58	Null	EST191720 NORMALIZED RAT LUNG, BENTO SOARES
AW252087	1.00	1.80	2.83	Hspb7	heat shock 27kDa protein family, member 7 (cardiovascular)
BF563077	1.00	1.79	1.59	Null	UI-R-BO1-AIY-D-07-0-UI.R1
NM_031677.1	1.00	1.79	1.74	Fhl2	four and a half LIM domains 2
NM_021863.1	1.00	1.79	1.57	Hspa2	heat shock 70kDa protein 2
AA892770	1.00	1.78	2.62	Gclc	glutamate-cysteine ligase, catalytic subunit
NM_012760.1	1.00	1.78	2.26	Plagl1	pleiomorphic adenoma gene-like 1
BF561727	1.00	1.78	1.56	Null	UI-R-C0-IC-F-11-0-UI.R1
AI232784	1.00	1.77	-1.07	Bdh2_predicted	3-hydroxybutyrate dehydrogenase, type 2
AW915009	1.00	1.77	2.50	Null	EST346313
AF411216	1.00	1.76	2.94	Tmem49	transmembrane protein 49
NM_017332.1	1.00	1.76	-1.09	Fasn	fatty acid synthase
AW917098	1.00	1.76	2.17	Loc388135	chromosome 15 open reading frame 59
AA946349	1.00	1.76	1.49	Nudt3	nudix (nucleoside diphosphate linked moiety X)-type motif 3
AW916940	1.00	1.75	2.42	Null	EST348244
AI410864	1.00	1.75	1.06	Me3_predicted	malic enzyme 3, NADP(+)-dependent, mitochondrial
AA945149	1.00	1.75	3.03	Gstt3	glutathione S-transferase, theta 3

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AI104235	1.00	1.75	2.00	Sdf2l1_predicted	stromal cell-derived factor 2-like 1
BF282282	1.00	1.75	1.58	Psph	phosphoserine phosphatase
NM_052807.1	1.00	1.75	3.18	Igf1r	insulin-like growth factor 1 receptor
BE116180	1.00	1.74	1.65	Ylpm1	YLP motif containing 1
NM_013168.1	1.00	1.74	1.30	Hmbs	hydroxymethylbilane synthase
AI502229	1.00	1.73	1.80	Stau2	staufen, RNA binding protein, homolog 2 (Drosophila)
AI600237	1.00	1.73	1.70	Eef1e1_predicted	eukaryotic translation elongation factor 1 epsilon 1
AI407490	1.00	1.72	1.61	Yars	tyrosyl-tRNA synthetase
NM_012848.1	1.00	1.72	-1.46	Fth1	ferritin, heavy polypeptide 1
AF199504	1.00	1.72	1.72	Cblb	Cas-Br-M (murine) ecotropic retroviral transforming sequence b
AA891839	1.00	1.72	1.65	Mrpl50_predicted	mitochondrial ribosomal protein L50
AW531805	1.00	1.72	-1.32	Ifit3	interferon-induced protein with tetratricopeptide repeats 3
AI407016	1.00	1.72	2.34	Kiaa0152	KIAA0152
NM_012811.1	1.00	1.72	1.58	Mfge8	milk fat globule-EGF factor 8 protein
M69056	1.00	1.72	1.14	Fntb	farnesyltransferase, CAAX box, beta
AI410050	1.00	1.71	1.78	Med24	mediator complex subunit 24
NM_032616.1	1.00	1.71	1.17	Lsr	lipolysis stimulated lipoprotein receptor
NM_133525.1	1.00	1.71	-1.05	C6orf108	chromosome 6 open reading frame 108
NM_031813.1	1.00	1.71	4.74	Mybph	myosin binding protein H
J05181	1.00	1.71	2.22	GlcIc	glutamate-cysteine ligase, catalytic subunit
BE121438	1.00	1.71	1.99	Null	UI-R-CA0-BAX-H-02-0-UI.S1 UI-R-CA0
NM_030868.1	1.00	1.71	1.84	Nov	nephroblastoma overexpressed gene
NM_138504.1	1.00	1.71	1.58	Osgin1	oxidative stress induced growth inhibitor 1
AI411217	1.00	1.70	3.34	Pycard	PYD and CARD domain containing
AW918602	1.00	1.70	2.18	Rbm20_predicted	RNA binding motif protein 20
AW915236	1.00	1.70	1.78	Atg2b	ATG2 autophagy related 2 homolog B (S. cerevisiae)
AI411021	1.00	1.70	1.46	Null	EST239315 NORMALIZED RAT KIDNEY, BENTO SOARES
NM_019242.1	1.00	1.69	2.60	Ifrd1	interferon-related developmental regulator 1
NM_017288.1	1.00	1.69	1.48	Scn1b	sodium channel, voltage-gated, type I, beta
AW435315	1.00	1.69	1.20	Gpr172b	G protein-coupled receptor 172B
NM_031640.1	1.00	1.69	2.51	Pgcp	plasma glutamate carboxypeptidase

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW918854	1.00	1.69	1.41	Eya2	eyes absent homolog 2 (Drosophila)
NM_024485.1	1.00	1.69	3.64	Chrna1	cholinergic receptor, nicotinic, alpha 1 (muscle)
NM_012661.1	1.00	1.69	2.15	Sts	steroid sulfatase (microsomal), isozyme S
NM_021699.1	1.00	1.69	1.31	Mark2	MAP/microtubule affinity-regulating kinase 2
NM_053799.1	1.00	1.68	1.86	Dars	aspartyl-tRNA synthetase
AI409108	1.00	1.68	1.73	Null	EST237400 NORMALIZED RAT OVARY, BENTO SOARES
U70050	1.00	1.68	1.18	Jag2	jagged 2
NM_032071.1	1.00	1.68	-1.09	Synj2	synaptojanin 2
NM_138548.1	1.00	1.67	1.48	Nme1	non-metastatic cells 1, protein (NM23A) expressed in
NM_012999.1	1.00	1.67	1.46	Pcsk6	proprotein convertase subtilisin/kexin type 6
U81160	1.00	1.67	1.54	Vsp45a; MGC93104	vacuolar protein sorting 45 homolog (S. cerevisiae)
AI412736	1.00	1.66	1.65	Tomm34_predicted	translocase of outer mitochondrial membrane 34
AW919062	1.00	1.66	1.44	Null	EST350366 RAT GENE INDEX, NORMALIZED RAT, NORVEGICUS, BENTO SOARES
AW918108	1.00	1.66	2.03	Btaf1	BTA1 RNA polymerase II, B-TFIID transcription factor-associated
AA945771	1.00	1.66	1.80	Null	EST201270 NORMALIZED RAT LUNG, BENTO SOARES
AI176515	1.00	1.66	2.38	Filip1	filamin A interacting protein 1
AI231450	1.00	1.66	1.79	LOC309957	similar to myocyte enhancer factor 2C
AI407982	1.00	1.66	2.25	Lrrfp1	leucine rich repeat (in FLII) interacting protein 1
AI145869	1.00	1.65	1.33	Tceal3	transcription elongation factor A (SII)-like 3
AA946485	1.00	1.65	6.16	Tgif1	TGFB-induced factor homeobox 1
AA818571	1.00	1.65	2.07	Null	UI-R-A0-AW-H-09-0-UI.S1 UI-R-A0
AW520823	1.00	1.65	1.56	Amotl1_predicted	angiomin like 1
NM_021578.1	1.00	1.64	1.71	Tgfb1	transforming growth factor, beta 1
NM_012939.1	1.00	1.64	1.51	Ctsh	cathepsin H
BF545958	1.00	1.64	2.84	Sf3a1	splicing factor 3a, subunit 1, 120kDa
AI233288	1.00	1.64	1.71	Wipi1_predicted	WD repeat domain, phosphoinositide interacting 1
NM_031139.1	1.00	1.64	1.68	Usf2	upstream transcription factor 2, c-fos interacting
AI105450	1.00	1.63	1.91	C9orf3	chromosome 9 open reading frame 3
BF393949	1.00	1.63	1.77	Sec13	SEC13 homolog (S. cerevisiae)
BF420447	1.00	1.63	1.36	Null	UI-R-BJ2-BPW-E-12-0-UI.S1 UI-R-BJ2
NM_017275.1	1.00	1.63	1.35	Pnck	pregnancy up-regulated non-ubiquitously expressed CaM kinase

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW921399	1.00	1.63	2.24	c5orf15	chromosome 5 open reading frame 15
AI716516	1.00	1.63	1.47	Null	UI-R-Y0-ABI-A-06-0-UI.S1 UI-R-Y0
AJ245648	1.00	1.63	1.52	Pola2	polymerase (DNA directed), alpha 2 (70kD subunit)
M18336	1.00	1.63	1.41	Cyp2c18	cytochrome P450, family 2, subfamily C, polypeptide 18
AA944162	1.00	1.63	1.69	Null	EST199661 NORMALIZED RAT EMBRYO, BENTO SOARES
NM_021739.1	1.00	1.62	2.22	Camk2b	calcium/calmodulin-dependent protein kinase (CaM kinase) II beta
AI231792	1.00	1.62	2.19	Bag3	BCL2-associated athanogene 3
AA848834	1.00	1.62	2.10	Dhdds	dehydrodolichyl diphosphate synthase
BE107747	1.00	1.62	1.29	Traf3ip3	TRAF3 interacting protein 3
AW920818	1.00	1.62	1.47	Pofut2_predicted	protein O-fucosyltransferase 2
NM_012874.1	1.00	1.62	1.16	Ros1	c-ros oncogene 1 , receptor tyrosine kinase
NM_031967.1	1.00	1.61	1.94	Ndr4	NDRG family member 4
NM_031814.1	1.00	1.61	1.15	Git1	G protein-coupled receptor kinase interactor 1
NM_031549.1	1.00	1.61	-1.15	Tagln	transgelin
AI407991	1.00	1.61	1.72	Null	EST236281 NORMALIZED RAT PLACENTA, BENTO SOARES
AF156878	1.00	1.61	1.66	Ogfr	opioid growth factor receptor
BE109381	1.00	1.60	2.75	H6pd	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
BF555924	1.00	1.60	1.66	Thap6	THAP domain containing 6
AI230758	1.00	1.60	1.06	M6prbp1	mannose-6-phosphate receptor binding protein 1
AI008390	1.00	1.60	2.42	Vash2	vasohibin 2
NM_053959.1	1.00	1.60	1.57	Bin1	bridging integrator 1
AW143395	1.00	1.59	1.24	Rcan2	regulator of calcineurin 2
AW143082	1.00	1.59	1.82	Null	EST293378
AA818392	1.00	1.59	1.52	Tnfaip8	tumor necrosis factor, alpha-induced protein 8
M92340	1.00	1.58	2.73	Il6st	interleukin 6 signal transducer (gp130, oncostatin M receptor)
AA799515	1.00	1.58	1.65	Wsb2	WD repeat and SOCS box-containing 2
AI104857	1.00	1.58	1.08	Ankrd37	ankyrin repeat domain 37
BE096387	1.00	1.58	1.80	LOC288526	similar to DNA segment on chromosome X and Y 155 expressed sequence isoform 1
AW920343	1.00	1.58	1.52	Null	EST351647 RAT GENE INDEX, NORMALIZED RAT, NORVEGICUS, BENTO SOARES
AW915076	1.00	1.57	1.93	Gpr146	G protein-coupled receptor 146
BF283742	1.00	1.57	1.68	Null	EST448333 RAT GENE INDEX, NORMALIZED RAT,

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
BF524281	1.00	1.57	1.21	Null	UI-R-AG0-XA-D-02-0-UI.R1
NM_013008.1	1.00	1.57	-1.15	Pou1f1	POU class 1 homeobox 1
AW918153	1.00	1.57	1.75	Null	EST349457
BE113005	1.00	1.57	1.49	Null	UI-R-BJ1-AWF-C-10-0-UI.S1 UI-R-BJ1
BE097102	1.00	1.57	-1.07	Null	UI-R-BO1-APT-B-12-0-UI.S1 UI-R-BO1
AW528864	1.00	1.57	-1.79	Null	UI-R-BT1-AKJ-E-03-0-UI.S1 UI-R-BT1
AW528874	1.00	1.57	1.61	Hirip3	HIRA interacting protein 3
AA818120	1.00	1.56	2.12	Sln	sarcolipin
AW920179	1.00	1.55	1.61	Faim3	Fas apoptotic inhibitory molecule 3
M61142	1.00	1.55	1.43	Thop1	thimet oligopeptidase 1
NM_019230.1	1.00	1.55	2.38	Slc22a3	solute carrier family 22 (extraneuronal monoamine transporter), member 3
NM_017346.1	1.00	1.55	1.83	Cacnb1	calcium channel, voltage-dependent, beta 1 subunit
NM_033230.1	1.00	1.55	1.71	Akt1	v-akt murine thymoma viral oncogene homolog 1
AW918441	1.00	1.55	2.01	Null	EST349745
AI232716	1.00	1.55	1.14	Inmt	indolethylamine N-methyltransferase
BF551283	1.00	1.54	1.82	Them4	thioesterase superfamily member 4
AA891944	1.00	1.54	1.32	Null	EST195747 NORMALIZED RAT KIDNEY, BENTO SOARES
BE101435	1.00	1.54	1.81	Null	UI-R-BJ1-AUJ-A-02-0-UI.S1 UI-R-BJ1
BE128566	1.00	1.54	1.60	Copz2_predicted	coatamer protein complex, subunit zeta 2
U78517	1.00	1.54	1.50	Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4
AI101120	1.00	1.54	-1.23	Null	EST210409 NORMALIZED RAT BRAIN, BENTO SOARES
AB020022	1.00	1.54	1.89	Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)
BF568015	1.00	1.54	1.81	Ebpl_predicted	emopamil binding protein-like
AI411991	1.00	1.54	1.59	Ndrp1	N-myc downstream regulated gene 1
AW523642	1.00	1.53	1.26	Suv420h1_predicted	suppressor of variegation 4-20 homolog 1 (Drosophila)
AF059530	1.00	1.53	2.29	Prmt3	protein arginine methyltransferase 3
AA819192	1.00	1.53	1.73	Null	UI-R-A0-AB-H-08-0-UI.S2 UI-R-A0
AW253263	1.00	1.53	1.82	Rtel1	regulator of telomere elongation helicase 1
NM_017117.1	1.00	1.53	1.58	Capn3	calpain 3, (p94)
AW917674	1.00	1.53	0.66	Prpf38b	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B
NM_053543.1	1.00	1.52	1.58	Ncdn	neurochondrin

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AI406310	1.00	1.52	1.67	Null	EST234596 NORMALIZED RAT BRAIN, BENTO SOARES
BF393902	1.00	1.52	1.88	Rpia	ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase)
NM_080886.1	1.00	1.52	1.77	Sc4mol	sterol-C4-methyl oxidase-like
BE109665	1.00	1.52	1.60	Null	UI-R-BJ1-AVQ-G-04-0-UI.S1 UI-R-BJ1
BF420074	1.00	1.52	1.01	Null	UI-R-BJ2-BPM-F-05-0-UI.S1 UI-R-BJ2
NM_012591.1	1.00	1.51	1.47	Irf1	interferon regulatory factor 1
AW252152	1.00	1.51	1.41	Null	UI-R-BJ0-AEE-G-12-0-UI.S1 UI-R-BJ0
BF554744	1.00	1.51	1.07	Lrg1	leucine-rich alpha-2-glycoprotein 1
AI235252	1.00	1.51	2.01	Null	EST231814 NORMALIZED RAT OVARY, BENTO SOARES
AW918419	1.00	1.51	1.18	1110012n22rik	RIKEN cDNA 1110012N22 gene
BF283382	1.00	1.50	1.95	Pgrmc2	progesterone receptor membrane component 2
AA858572	1.00	1.50	1.10	Loc100131801	similar to hCG2036585
BE119991	1.00	1.50	1.47	Frmpd1_predicted	FERM and PDZ domain containing 1
NM_053947.1	1.00	1.50	1.36	Mark1	MAP/microtubule affinity-regulating kinase 1
BF550271	1.00	1.49	1.53	Null	UI-R-A1-EC-F-09-0-UI.R1
BE100771	1.00	1.49	1.29	Tppp3	tubulin polymerization-promoting protein family member 3
BF398684	1.00	1.49	1.55	Null	UI-R-BS2-BER-F-08-0-UI.S1 UI-R-BS2
BF388434	1.00	1.48	2.05	Fam49b	family with sequence similarity 49, member B
AA850317	1.00	1.48	1.35	Ehd4	EH-domain containing 4
AI180081	1.00	1.48	1.24	Setd5	SET domain containing 5
NM_032080.1	1.00	1.48	2.18	Gsk3b	glycogen synthase kinase 3 beta
AW915241	1.00	1.48	1.64	Null	EST346545
AW915499	1.00	1.48	1.25	Vac14	Vac14 homolog (<i>S. cerevisiae</i>)
NM_012498.1	1.00	1.48	1.17	Akr1b1	aldo-keto reductase family 1, member B1 (aldose reductase)
AI231309	1.00	1.48	1.92	Aig1	androgen-induced 1
AW915012	1.00	1.48	1.37	Null	EST346316
NM_013069.1	1.00	1.47	1.78	Cd74	CD74 molecule, major histocompatibility complex, class II invariant chain
BE100918	1.00	1.47	1.89	Rufy1	RUN and FYVE domain containing 1
NM_053563.1	1.00	1.47	1.56	Ddx39	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39
NM_032079.1	1.00	1.46	1.57	Dnaja2	DnaJ (Hsp40) homolog, subfamily A, member 2
AA800364	1.00	1.46	1.53	C19orf56	chromosome 19 open reading frame 56

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
BF282876	1.00	1.46	1.50	Rab11fip3	RAB11 family interacting protein 3 (class II)
NM_053929.1	1.00	1.46	1.46	Slc7a9	solute carrier family 7 (cationic amino acid transporter, y+ system), member 9
AI012460	1.00	1.46	1.31	Ahcy12	S-adenosylhomocysteine hydrolase-like 2
AA891734	1.00	1.46	2.20	Null	EST195537 NORMALIZED RAT KIDNEY, BENTO SOARES
Y16774	1.00	1.45	2.27	Slc30a4	solute carrier family 30 (zinc transporter), member 4
AA818759	1.00	1.45	1.65	Commnd6	COMM domain containing 6
Y15054	1.00	1.45	-1.07	Coro7	coronin 7
AI168965	1.00	1.45	1.82	Fbxo28	F-box protein 28
AI172302	1.00	1.45	1.74	Srxn1	sulfiredoxin 1 homolog (S. cerevisiae)
AI180337	1.00	1.45	1.33	Cd2bp2_predicted	CD2 (cytoplasmic tail) binding protein 2
AI030179	1.00	1.45	-1.04	Atp6v0e2	ATPase, H+ transporting V0 subunit e2
AW914939	1.00	1.45	-1.32	Pqlc1	PQ loop repeat containing 1
NM_019387.1	1.00	1.44	1.53	Hgs	hepatocyte growth factor-regulated tyrosine kinase substrate
BE098848	1.00	1.44	1.41	Null	UI-R-BJ1-ATE-E-10-0-UI.S1 UI-R-BJ1
AI227919	1.00	1.44	1.42	Null	EST224614 NORMALIZED RAT BRAIN, BENTO SOARES
BE109586	1.00	1.44	1.38	Chmp6_predicted	chromatin modifying protein 6
AA799476	1.00	1.43	1.71	Txndc14	thioredoxin domain containing 14
BF282415	1.00	1.43	1.63	Null	EST446918 RAT GENE INDEX, NORMALIZED RAT,
AW144039	1.00	1.43	1.42	Txndc12	thioredoxin domain containing 12 (endoplasmic reticulum)
BF564263	1.00	1.43	1.44	Ift81	intraflagellar transport 81 homolog (Chlamydomonas)
AI410895	1.00	1.43	1.36	Null	EST239188 NORMALIZED RAT HEART, BENTO SOARES
AI235446	1.00	1.43	1.84	Null	EST232008 NORMALIZED RAT OVARY, BENTO SOARES
AW441131	1.00	1.42	1.69	Mycbp2	MYC binding protein 2
AW916138	1.00	1.42	1.56	Loc688393	similar to XPA binding protein 1
AA859631	1.00	1.42	1.34	Znf775	zinc finger protein 775
AI010272	1.00	1.42	1.71	Null	EST204723 NORMALIZED RAT LUNG, BENTO SOARES
Z18877	1.00	1.42	1.25	Oas1	2',5'-oligoadenylate synthetase 1, 40/46kDa
AW915585	1.00	1.42	-1.38	Cdc42ep1_predicted	CDC42 effector protein (Rho GTPase binding) 1
AI233232	1.00	1.41	1.73	Ccdc51	coiled-coil domain containing 51
AI177089	1.00	1.41	1.40	Gzf1	GDNF-inducible zinc finger protein 1
AA892364	1.00	1.41	1.62	Wbp11	WW domain binding protein 11

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
BE111296	1.00	1.41	1.07	Tmcc2	transmembrane and coiled-coil domain family 2
NM_017125.1	1.00	1.40	1.70	Cd63	CD63 molecule
AI175383	1.00	1.40	1.48	Ccdc43	coiled-coil domain containing 43
AW143855	1.00	1.40	1.37	tmem167b	transmembrane protein 167B
AI407930	1.00	1.40	1.29	Pacsin2	protein kinase C and casein kinase substrate in neurons 2
NM_012924.2	1.00	1.40	1.99	Cd44	CD44 molecule (Indian blood group)
NM_017236.1	1.00	1.40	1.22	Pebp1	phosphatidylethanolamine binding protein 1
NM_017076.1	1.00	1.40	3.59	Pvr	poliovirus receptor
BE113057	1.00	1.40	1.61	Traf3	TNF receptor-associated factor 3
AW918024	1.00	1.39	1.72	Nif3l1	NIF3 NGG1 interacting factor 3-like 1 (S. pombe)
AW918610	1.00	1.39	1.58	Npepps	aminopeptidase puromycin sensitive
AA943734	1.00	1.39	1.24	Mtp18	mitochondrial protein 18 kDa
NM_133419.1	1.00	1.39	1.56	Dkc1	dyskeratosis congenita 1, dyskerin
BE103359	1.00	1.39	1.41	Kiaa0368	KIAA0368
AI232065	1.00	1.39	1.59	Arhgap18_predicted	Rho GTPase activating protein 18
BF407203	1.00	1.39	1.39	Gmpr2	guanosine monophosphate reductase 2
BE096047	1.00	1.39	1.33	Null	UI-R-BU0-APK-G-07-0-UI.S1 UI-R-BU0
NM_017059.1	1.00	1.38	1.85	Bax	BCL2-associated X protein
BE100014	1.00	1.38	1.26	Snx18	sorting nexin 18
AA800241	1.00	1.38	1.94	Arl6ip5	ADP-ribosylation-like factor 6 interacting protein 5
NM_031051.1	1.00	1.38	1.42	Mif	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
NM_019289.1	1.00	1.38	1.23	Arpc1b	actin related protein 2/3 complex, subunit 1B, 41kDa
NM_017274.1	1.00	1.38	1.73	Gpam	glycerol-3-phosphate acyltransferase, mitochondrial
AW917461	1.00	1.38	1.12	Peli1	pellino homolog 1 (Drosophila)
BI291916	1.00	1.37	1.12	Null	UI-R-DN0-CIU-M-03-0-UI.S1
BF289240	1.00	1.37	1.22	Null	EST453831 RAT GENE INDEX, NORMALIZED RAT,
BE103482	1.00	1.37	1.06	Tbx1_predicted	T-box 1
BE109520	1.00	1.37	2.16	Fam134b	family with sequence similarity 134, member B
NM_031337.1	1.00	1.37	1.31	St3gal5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5
BE113312	1.00	1.36	1.41	Ap3b1_predicted	adaptor-related protein complex 3, beta 1 subunit
NM_019904.1	1.00	1.36	1.25	Lgals1	lectin, galactoside-binding, soluble, 1 (galectin 1)

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AA851241	1.00	1.36	1.29	Brms1	breast cancer metastasis suppressor 1
AI412090	1.00	1.36	1.09	Flj14154	hypothetical protein FLJ14154
NM_053373.1	1.00	1.36	1.50	Pglyrp1	peptidoglycan recognition protein 1
BG666918	1.00	1.35	1.42	Gart	phosphoribosylglycinamide formyltransferase,
AI029460	1.00	1.35	1.01	Null	UI-R-C0-IR-G-06-0-UI.S1 UI-R-C0
AI600037	1.00	1.34	1.27	Galntl1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1
BF395080	1.00	1.34	-2.09	Null	UI-R-CM0-BJI-E-05-0-UI.S1 UI-R-CM0
AA800179	1.00	1.34	1.55	Cox4nb	COX4 neighbor
NM_053372.1	1.00	1.34	1.18	Slpi	secretory leukocyte peptidase inhibitor
BF284939	1.00	1.34	1.13	C9orf69	chromosome 9 open reading frame 69
NM_022266.1	1.00	1.33	1.96	Ctgf	connective tissue growth factor
AI232337	1.00	1.33	1.10	Znf706	zinc finger protein 706
AI412931	1.00	1.32	1.67	Null	EST241231 NORMALIZED RAT KIDNEY, BENTO SOARES
AW253642	1.00	1.32	1.17	Ssna1_predicted	Sjogren syndrome nuclear autoantigen 1
NM_024484.1	1.00	1.32	1.34	Alas1	aminolevulinate, delta-, synthase 1
BE108780	1.00	1.31	1.22	Null	UI-R-BS1-AYY-D-02-0-UI.S1 UI-R-BS1
AW916721	1.00	-1.27	-1.24	Fam116a	family with sequence similarity 116, member A
BF283250	1.00	-1.31	1.05	Xylb	xylulokinase homolog (H. influenzae)
AW143980	1.00	-1.32	-1.19	Rgd1560888 Predicted	similar to Cell division protein kinase 8 (Protein kinase K35)
AW525344	1.00	-1.32	-1.38	Mnt_predicted	MAX binding protein
AW530272	1.00	-1.32	-1.67	Egfl8	EGF-like-domain, multiple 8
NM_031773.1	1.00	-1.32	-1.21	Polr1b	polymerase (RNA) I polypeptide B, 128kDa
AI233194	1.00	-1.33	-1.58	Null	EST229882 NORMALIZED RAT KIDNEY, BENTO SOARES
AA875261	1.00	-1.33	-1.86	Fblim1	filamin binding LIM protein 1
BF282287	1.00	-1.33	-1.22	Null	EST446966 RAT GENE INDEX, NORMALIZED RAT,
NM_017142.1	1.00	-1.33	-1.93	Adcy8	adenylate cyclase 8 (brain)
BE106513	1.00	-1.33	-1.36	Null	UI-R-BO1-ASO-H-06-0-UI.S1 UI-R-BO1
BE098853	1.00	-1.34	-1.92	Afap1l1	actin filament associated protein 1-like 1
BE109108	1.00	-1.34	-1.69	Patz1	POZ (BTB) and AT hook containing zinc finger 1
NM_053820.1	1.00	-1.34	-1.34	Ebf1	early B-cell factor 1
AI407555	1.00	-1.35	-1.60	Fbxw9	F-box and WD repeat domain containing 9

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW917738	1.00	-1.35	-1.24	C21orf91	chromosome 21 open reading frame 91
BE107737	1.00	-1.35	-1.43	Crocc_predicted	ciliary rootlet coiled-coil, rootletin
AI008952	1.00	-1.35	-1.69	Eml4_predicted	echinoderm microtubule associated protein like 4
NM_012816.1	1.00	-1.35	-1.40	Amacr	alpha-methylacyl-CoA racemase
BE098045	1.00	-1.36	-1.37	Null	UI-R-BJ1-ASW-C-01-0-UI.S1 UI-R-BJ1
BF549379	1.00	-1.36	1.12	Null	UI-R-A0-BC-D-02-0-UI.R1
NM_131907.1	1.00	-1.36	1.30	Atp2c1	ATPase, Ca++ transporting, type 2C, member 1
AI111863	1.00	-1.36	-2.40	Null	UI-R-Y0-MP-F-02-0-UI.S1 UI-R-Y0
NM_133619.1	1.00	-1.37	-1.35	Gpha2	glycoprotein hormone alpha 2
BF417386	1.00	-1.37	-1.37	Null	UI-R-CN0-BLD-E-11-0-UI.S1 UI-R-CN0
NM_013145.1	1.00	-1.37	-1.61	Gnai1	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
NM_133618.1	1.00	-1.37	1.37	Hadhb	hydroxyacyl-Coenzyme A dehydrogenase, beta subunit
NM_016991.1	1.00	-1.37	-1.65	Adra1b	adrenergic, alpha-1B-, receptor
AI013475	1.00	-1.37	-1.92	Sort1	sortilin 1
NM_078619.1	1.00	-1.38	-1.04	Slc8a2	solute carrier family 8 (sodium-calcium exchanger), member 2
BE104961	1.00	-1.38	-1.36	Cenpj_predicted	centromere protein J
NM_133386.1	1.00	-1.38	-1.45	Sphk1	sphingosine kinase 1
M94040	1.00	-1.38	-1.27	Bckdhb	branched chain keto acid dehydrogenase E1, beta polypeptide
NM_022522.2	1.00	-1.38	-1.03	Casp2	caspase 2, apoptosis-related cysteine peptidase
NM_012588.1	1.00	-1.38	-1.57	Igfbp3	insulin-like growth factor binding protein 3
AI556402	1.00	-1.38	-1.46	Null	UI-R-C2P-RH-B-09-0-UI.S1 UI-R-C2P
BF396218	1.00	-1.39	-1.42	C1orf131	chromosome 1 open reading frame 131
NM_052808.1	1.00	-1.39	-1.58	C20orf70	chromosome 20 open reading frame 70
BF400766	1.00	-1.39	-1.70	Lrrc46	leucine rich repeat containing 46
AW919683	1.00	-1.39	-1.88	Null	EST350987
NM_053777.1	1.00	-1.39	-1.85	Mapk8ip1	mitogen-activated protein kinase 8 interacting protein 1
NM_019243.1	1.00	-1.39	-1.08	Ptgfrn	prostaglandin F2 receptor negative regulator
AW529588	1.00	-1.39	-1.37	Null	UI-R-BT1-AKN-A-06-0-UI.S1 UI-R-BT1
BF281969	1.00	-1.39	-1.67	C10orf57	chromosome 10 open reading frame 57
AI101373	1.00	-1.39	-1.86	Zcchc24	zinc finger, CCHC domain containing 24
NM_012896.1	1.00	-1.39	-1.24	Adora3	adenosine A3 receptor

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
Z78279	1.00	-1.39	-1.40	COL1A1	collagen, type I, alpha 1
AI233752	1.00	-1.40	-1.23	Slc4a11_predicted	solute carrier family 4, sodium borate transporter, member 11
AW141192	1.00	-1.40	-1.25	Tjp1_predicted	tight junction protein 1 (zona occludens 1)
NM_080581.1	1.00	-1.40	-1.77	Abcc3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3
BE111850	1.00	-1.40	-1.44	Cnot7_predicted	CCR4-NOT transcription complex, subunit 7
AI407500	1.00	-1.40	-1.55	Mgc94725	similar to methionine adenosyltransferase II, beta
AB019366	1.00	-1.40	-1.35	Parg	poly (ADP-ribose) glycohydrolase
AW144399	1.00	-1.40	-1.21	C12orf35	chromosome 12 open reading frame 35
BE111762	1.00	-1.41	-1.36	Null	UI-R-BJ1-AVX-E-07-0-UI.S1 UI-R-BJ1
NM_012651.1	1.00	-1.41	-1.10	Slc4a1	solute carrier family 4, anion exchanger, member 1
BF389120	1.00	-1.41	-1.32	LOC302495	hypothetical LOC302495
AI411225	1.00	-1.42	-1.82	Itgav_predicted	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
NM_019136.1	1.00	-1.42	-1.04	Avpr2	arginine vasopressin receptor 2 (nephrogenic diabetes insipidus)
AA891858	1.00	-1.42	-1.16	Cdh16	cadherin 16, KSP-cadherin
NM_030838.1	1.00	-1.42	-1.24	Slco1a5	solute carrier organic anion transporter family, member 1a5
NM_017102.1	1.00	-1.42	-1.27	Slc2a3	solute carrier family 2 (facilitated glucose transporter), member 3
AI179236	1.00	-1.42	-1.80	Null	EST222927 NORMALIZED RAT SPLEEN, BENTO SOARES
NM_017145.1	1.00	-1.43	-1.05	Mcpt1	mast cell protease 1
NM_021751.1	1.00	-1.43	-1.55	Prom1	prominin 1
AI411077	1.00	-1.43	-2.38	Zbtb5	zinc finger and BTB domain containing 5
AA900400	1.00	-1.43	-1.16	Wtap	Wilms tumor 1 associated protein
U67139	1.00	-1.43	-1.20	Dlgap3	discs, large (Drosophila) homolog-associated protein 3
NM_133596.1	1.00	-1.43	-1.41	Ugcgl1	UDP-glucose ceramide glucosyltransferase-like 1
BF420720	1.00	-1.43	-1.76	Arl5c	ADP-ribosylation factor-like 5C
NM_021653.1	1.00	-1.43	-1.25	Dio1	deiodinase, iodothyronine, type I
AA892081	1.00	-1.43	-1.71	C18orf19	chromosome 18 open reading frame 19
AA858925	1.00	-1.43	-1.81	Epb4.1l5	erythrocyte membrane protein band 4.1 like 5
L09752	1.00	-1.43	-1.64	Ccnd2	cyclin D2
AI170763	1.00	-1.43	-1.67	Agl_predicted	amylo-1, 6-glucosidase, 4-alpha-glucanotransferase
AI178257	1.00	-1.43	-1.71	Null	EST221922 NORMALIZED RAT PLACENTA, BENTO SOARES
AI060055	1.00	-1.43	-1.19	Uba6	ubiquitin-like modifier activating enzyme 6

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW535722	1.00	-1.43	-1.42	Null	UI-R-BS0-AOD-C-06-0-UI.S1 UI-R-BS0
NM_053623.1	1.00	-1.44	-1.22	Acsl4	acyl-CoA synthetase long-chain family member 4
BG673065	1.00	-1.44	-1.33	Null	DRNBIE11 RAT DRG LIBRARY
AW915681	1.00	-1.44	-1.34	Ppapdc2	phosphatidic acid phosphatase type 2 domain containing 2
AI406342	1.00	-1.44	-1.18	Spock1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1
AI710879	1.00	-1.44	-1.67	Null	UI-R-AE1-ZH-D-03-0-UI.S1 UI-R-AE1
NM_013179.1	1.00	-1.44	-1.27	Hcrt	hypocretin (orexin) neuropeptide precursor
AF268593	1.00	-1.44	-1.48	Itgam	integrin, alpha M (complement component 3 receptor 3 subunit)
AW144391	1.00	-1.44	-1.16	Pgm2l1	phosphoglucomutase 2-like 1
NM_017063.1	1.00	-1.44	-1.03	Kpnb1	karyopherin (importin) beta 1
AI175048	1.00	-1.44	-1.38	Six1	SIX homeobox 1
NM_053477.1	1.00	-1.45	-1.27	Mlycd	malonyl-CoA decarboxylase
X69523	1.00	-1.45	-1.43	Rbp3	retinol binding protein 3, interstitial
AF387513	1.00	-1.45	1.02	Bambi	BMP and activin membrane-bound inhibitor homolog
NM_013173.1	1.00	-1.45	-1.54	Slc11a2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
AW919008	1.00	-1.45	-1.39	Nudt8_predicted	nudix (nucleoside diphosphate linked moiety X)-type motif 8
AA893184	1.00	-1.45	-1.32	Pdhx	pyruvate dehydrogenase complex, component X
NM_012816.1	1.00	-1.45	-1.59	Amacr	alpha-methylacyl-CoA racemase
AW254375	1.00	-1.46	-1.48	Null	UI-R-BJ0-AEI-B-08-0-UI.S1 UI-R-BJ0
NM_053758.1	1.00	-1.46	-1.17	Plce1	phospholipase C, epsilon 1
AI176848	1.00	-1.46	-1.48	Null	EST220451 NORMALIZED RAT OVARY, BENTO SOARES
AI408954	1.00	-1.46	-1.03	Null	EST237245 NORMALIZED RAT KIDNEY, BENTO SOARES
BE110545	1.00	-1.46	-1.79	Osbp_predicted	oxysterol binding protein
AA799358	1.00	-1.46	-1.44	Null	EST188855 NORMALIZED RAT HEART, BENTO SOARES
AI406341	1.00	-1.46	-1.55	Null	EST234627 NORMALIZED RAT BRAIN, BENTO SOARES
AW520781	1.00	-1.46	-1.62	Asb8_predicted	ankyrin repeat and SOCS box-containing 8
NM_134418.1	1.00	-1.46	-1.23	Gp2	glycoprotein 2 (zymogen granule membrane)
BE114154	1.00	-1.46	-1.44	Null	UI-R-BJ1-AWJ-G-01-0-UI.S1 UI-R-BJ1
BF282314	1.00	-1.46	-1.48	C18orf8	chromosome 18 open reading frame 8
AI411297	1.00	-1.46	-1.81	Znf691	zinc finger protein 691
BF284065	1.00	-1.46	-2.03	Null	EST448656 RAT GENE INDEX, NORMALIZED RAT,

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AI170067	1.00	-1.46	-1.18	Null	EST215983 NORMALIZED RAT LUNG, BENTO SOARES
AI578745	1.00	-1.46	-1.74	Null	UI-R-AA0-WQ-F-11-0-UI.S1 UI-R-AA0
NM_017027.1	1.00	-1.46	-2.82	Mpz	myelin protein zero (Charcot-Marie-Tooth neuropathy 1B)
BF567649	1.00	-1.47	-1.42	Null	UI-R-BO0-AGS-G-07-0-UI.R1
AI170769	1.00	-1.47	-1.53	C9orf46	chromosome 9 open reading frame 46
NM_057107.1	1.00	-1.47	-1.18	Acsl3	acyl-CoA synthetase long-chain family member 3
BF548006	1.00	-1.47	-1.58	Anapc1_predicted	anaphase promoting complex subunit 1
NM_017041.1	1.00	-1.48	-1.13	Ppp3ca	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform
BF556273	1.00	-1.48	-1.65	Vezf1_predicted	vascular endothelial zinc finger 1
Y00697.1	1.00	-1.48	1.10	Ctsl2	cathepsin L2
AF003598	1.00	-1.48	-1.84	Itgb7	integrin, beta 7
BF399633	1.00	-1.48	-1.92	Kiaa0922	KIAA0922
AI103954	1.00	-1.48	-1.92	Null	EST213243 NORMALIZED RAT HEART, BENTO SOARES
BF550302	1.00	-1.48	-1.08	Null	UI-R-A1-EF-C-03-0-UI.R1 UI-R-A1
NM_138506.1	1.00	-1.48	-1.18	Adra2c	adrenergic, alpha-2C-, receptor
AW144346	1.00	-1.48	-1.57	Null	EST294642
AA894233	1.00	-1.49	-1.83	Aifm2	apoptosis-inducing factor, mitochondrion-associated, 2
BE113034	1.00	-1.49	-1.48	Isca1l	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)-like
BF564940	1.00	-1.49	-1.80	Ifit2	interferon-induced protein with tetratricopeptide repeats 2
NM_030998.1	1.00	-1.49	-3.71	Amhr2	anti-Mullerian hormone receptor, type II
AB052846	1.00	-1.49	-1.57	Sc5dl	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like
NM_022533.1	1.00	-1.49	-1.12	Plip	plasma membrane proteolipid (plasmolipin)
BF403712	1.00	-1.49	-1.23	Zfyve1_predicted	zinc finger, FYVE domain containing 1
NM_017110.1	1.00	-1.49	-1.52	Cartpt	CART prepropeptide
AA801220	1.00	-1.49	-1.48	Null	EST190717 NORMALIZED RAT PLACENTA, BENTO SOARES
BF523098	1.00	-1.49	-1.22	Null	UI-R-C2P-RR-D-03-0-UI.R1 UI-R-C2P
AW251401	1.00	-1.49	-1.26	Null	UI-R-BJ0-ADH-G-01-0-UI.S1 UI-R-BJ0
AW531891	1.00	-1.49	-1.54	Bcl9	B-cell CLL/lymphoma 9
NM_031693.1	1.00	-1.49	-1.20	Syt4	synaptotagmin IV
AW524559	1.00	-1.49	-1.69	Null	UI-R-BO0-AHZ-G-12-0-UI.S1 UI-R-BO0
NM_012621.1	1.00	-1.49	-3.39	Pfkfb1	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AI103645	1.00	-1.50	-1.30	Melk_predicted	maternal embryonic leucine zipper kinase
AI176838	1.00	-1.50	-1.51	Null	EST220440 NORMALIZED RAT OVARY, BENTO SOARES
BF395067	1.00	-1.50	-2.07	Kiaa0922	KIAA0922
AA997458	1.00	-1.50	-1.31	Csrp2bp_predicted	CSRP2 binding protein
D10655	1.00	-1.50	-1.38	Dlat	dihydrolipoamide S-acetyltransferase
AW918640	1.00	-1.50	-1.86	Ivns1abp_predicted	influenza virus NS1A binding protein
AW531735	1.00	-1.50	-1.58	Null	UI-R-C4-ALK-E-03-0-UI.S1 UI-R-C4
X53232	1.00	-1.50	-1.87	Kiaa1688	KIAA1688 protein
BE113966	1.00	-1.50	-1.07	Gmfg	glia maturation factor, gamma
AW918358	1.00	-1.50	-1.15	C13orf1	chromosome 13 open reading frame 1
BE113157	1.00	-1.50	-1.52	Null	UI-R-BJ1-AWC-B-10-0-UI.S1 UI-R-BJ1
AA817813	1.00	-1.50	-1.64	Null	UI-R-A0-AE-C-09-0-UI.S1 UI-R-A0
AA874838	1.00	-1.50	1.36	Null	UI-R-E0-CG-G-03-0-UI.S1
X13722	1.00	-1.51	-1.22	LDLR	low density lipoprotein receptor (familial hypercholesterolemia)
AA957047	1.00	-1.51	-1.36	Loc302495	hypothetical LOC302495
AW918376	1.00	-1.51	-1.94	Loc680128	similar to phospholipase C-like 2
NM_080481.1	1.00	-1.51	-1.29	Atp5i	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit E
AA848536	1.00	-1.51	-1.58	Null	EST191296 NORMALIZED RAT KIDNEY, BENTO SOARES
BE118465	1.00	-1.51	-1.39	Null	UI-R-BJ1-AZP-H-08-0-UI.S1 UI-R-BJ1
AW915015	1.00	-1.51	-1.45	Null	EST346319
NM_012580.1	1.00	-1.51	-1.04	Hmox1	heme oxygenase (decycling) 1
NM_013090.1	1.00	-1.51	-1.39	Vamp1	vesicle-associated membrane protein 1 (synaptobrevin 1)
L19699	1.00	-1.51	-1.68	Ralb	v-ral simian leukemia viral oncogene homolog B
NM_013135.1	1.00	-1.51	1.04	Rasa1	RAS p21 protein activator (GTPase activating protein) 1
NM_053844.1	1.00	-1.51	-1.42	Tff2	trefoil factor 2 (spasmolytic protein 1)
NM_031573.1	1.00	-1.51	-1.59	Phkg1	phosphorylase kinase, gamma 1 (muscle)
U04933	1.00	-1.52	-1.90	Slc8a1	solute carrier family 8 (sodium/calcium exchanger), member 1
K02816	1.00	-1.52	-1.47	Sub1	SUB1 homolog (S. cerevisiae)
BE104321	1.00	-1.52	-1.45	Ankrd13c	ankyrin repeat domain 13C
BF400697	1.00	-1.52	-1.61	Zrnb3	zinc finger, RAN-binding domain containing 3
AA818602	1.00	-1.52	-1.48	Rit2	Ras-like without CAAX 2

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_017192.1	1.00	-1.52	-1.56	S1pr2	sphingosine-1-phosphate receptor 2
AI235934	1.00	-1.52	-1.59	Jarid1b	jumonji, AT rich interactive domain 1B
NM_053904.1	1.00	-1.52	-2.22	Oplah	5-oxoprolinase (ATP-hydrolysing)
BF282899	1.00	-1.52	-1.31	Cdkn2c	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)
BE109712	1.00	-1.52	-1.94	Flj27352	hypothetical LOC145788
BE113053	1.00	-1.52	-1.78	Siat7F	ST6 -N-acetylgalactosaminide alpha-2,6-sialyltransferase 6
BF288328	1.00	-1.53	-1.16	Sp1	Sp1 transcription factor
BF405581	1.00	-1.53	-1.53	Phf3_predicted	PHD finger protein 3
BF551118	1.00	-1.53	-1.71	Sox17_predicted	SRY (sex determining region Y)-box 17
AA925922	1.00	-1.53	-1.47	Null	UI-R-A1-ES-G-09-0-UI.S1 UI-R-A1
NM_019164.1	1.00	-1.53	-1.22	HAD (Includes EG:1264	chondroadherin
AI231460	1.00	-1.53	-1.36	Null	EST228148 NORMALIZED RAT EMBRYO, BENTO SOARES
NM_019237.1	1.00	-1.53	-1.34	Pcolce	procollagen C-endopeptidase enhancer
NM_013105.1	1.00	-1.53	-1.57	Cyp3a4	cytochrome P450, family 3, subfamily A, polypeptide 4
L14776	1.00	-1.53	-1.78	Ctsj	cathepsin J
NM_133585.1	1.00	-1.53	-1.31	Opa1	optic atrophy 1 (autosomal dominant)
NM_019239.1	1.00	-1.53	-1.34	Mgat3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase
AI407130	1.00	-1.53	-1.63	Null	EST235418 NORMALIZED RAT OVARY, BENTO SOARES
AI102799	1.00	-1.53	-1.74	Vamp5	vesicle-associated membrane protein 5 (myobrevin)
AA943126	1.00	-1.54	-1.72	Fam115a	family with sequence similarity 115, member A
AI176056	1.00	-1.54	-2.33	Null	EST219632 NORMALIZED RAT OVARY, BENTO SOARES
AW916756	1.00	-1.54	-1.65	Null	EST348164
BF389244	1.00	-1.54	-1.57	Gins1	GIN5 complex subunit 1 (Psf1 homolog)
AI101458	1.00	-1.54	-1.63	Fam110b	family with sequence similarity 110, member B
BE112781	1.00	-1.54	-1.07	C10orf78	chromosome 10 open reading frame 78
NM_133422.1	1.00	-1.54	-1.23	Znf483	zinc finger protein 483
M94043	1.00	-1.54	-1.34	Rab38	RAB38, member RAS oncogene family
NM_030860.1	1.00	-1.54	-1.39	Mef2d	myocyte enhancer factor 2D
AW254369	1.00	-1.54	-1.46	Plekhb2_predicted	pleckstrin homology domain containing, family B (evectins) member 2
AA800298	1.00	-1.54	-1.98	Col15a1	collagen, type XV, alpha 1
BE109604	1.00	-1.54	-2.48	Otub2	OTU domain, ubiquitin aldehyde binding 2

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
D26113	1.00	-1.55	-2.25	Fas	Fas (TNF receptor superfamily, member 6)
AA957492	1.00	-1.55	-1.31	Null	UI-R-E1-GB-E-01-0-UI.S1 UI-R-E1
NM_019343.1	1.00	-1.55	-1.39	Rgs7	regulator of G-protein signaling 7
AI948410	1.00	-1.55	-1.43	Null	612-7 RATTUS NORVEGICUS CDNA
BG672160	1.00	-1.55	-1.46	Tspan12	tetraspanin 12
AI010267	1.00	-1.55	-1.71	Null	EST204718 NORMALIZED RAT LUNG, BENTO SOARES
AI411412	1.00	-1.55	-1.46	Mosc1	MOCO sulphurase C-terminal domain containing 1
BE099063	1.00	-1.55	-1.75	Nradd	neurotrophin receptor associated death domain
BE112921	1.00	-1.55	-1.96	LOC500700	similar to chromosome 14 open reading frame 145
AI235503	1.00	-1.55	1.16	Null	EST232065 NORMALIZED RAT OVARY, BENTO SOARES
BE111727	1.00	-1.55	-1.70	Lass4_predicted	LAG1 homolog, ceramide synthase 4
NM_053463.1	1.00	-1.55	-2.21	Nucb1	nucleobindin 1
BG666843	1.00	-1.56	-1.44	Null	DRACNC05
AW918105	1.00	-1.56	-1.83	Strn	striatin, calmodulin binding protein
AW915554	1.00	-1.56	-1.19	Ascc3_predicted	activating signal cointegrator 1 complex subunit 3
BF548520	1.00	-1.56	-1.86	Null	UI-R-A0-AQ-B-01-0-UI.R1 UI-R-A0
AI703715	1.00	-1.56	-1.99	Prkd2	protein kinase D2
BF409371	1.00	-1.56	-1.93	Null	UI-R-CA1-BLF-C-06-0-UI.S1 UI-R-CA1
BF288273	1.00	-1.56	-1.38	Maml2	mastermind-like 2 (Drosophila)
AW917849	1.00	-1.56	-1.64	Null	EST349153
BF400636	1.00	-1.57	-1.60	Hspc159	galectin-related protein
AI233916	1.00	-1.57	-1.76	Hltf	helicase-like transcription factor
AW915996	1.00	-1.57	-2.47	Adamtsl2	ADAMTS-like 2
NM_053346.1	1.00	-1.57	-1.50	Nrn1	neuritin 1
AI012474	1.00	-1.57	-1.79	Agpat2_predicted	1-acylglycerol-3-phosphate O-acyltransferase 2
X14788	1.00	-1.57	-1.73	Creb1	cAMP responsive element binding protein 1
AF230638	1.00	-1.57	-1.33	Slc14a2	solute carrier family 14 (urea transporter), member 2
NM_021850.1	1.00	-1.57	-1.49	Bcl2l2	BCL2-like 2
AW523888	1.00	-1.57	-1.63	Null	UI-R-BO0-AIE-B-09-0-UI.S1 UI-R-BO0
AI233865	1.00	-1.57	-1.80	Null	EST230553 NORMALIZED RAT LUNG, BENTO SOARES
AW527165	1.00	-1.57	-1.96	Null	UI-R-BO1-AJM-C-06-0-UI.S1 UI-R-BO1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
BF558902	1.00	-1.57	-1.74	Nid2	nidogen 2 (osteonidogen)
AI170351	1.00	-1.57	-1.49	Dus4l_predicted	dihydrouridine synthase 4-like (S. cerevisiae)
NM_019311.1	1.00	-1.57	-1.54	Inpp5d	inositol polyphosphate-5-phosphatase, 145kDa
NM_019296.1	1.00	-1.57	-1.61	Cdc2	cell division cycle 2, G1 to S and G2 to M
BF284067	1.00	-1.57	-2.42	Rap1ga1	RAP1 GTPase activating protein
AI112577	1.00	-1.58	-1.41	Gng3	guanine nucleotide binding protein (G protein), gamma 3
NM_053350.1	1.00	-1.58	-1.56	Agps	alkylglycerone phosphate synthase
NM_012797.1	1.00	-1.58	-3.27	Id1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
AI413051	1.00	-1.58	-1.48	Laptm4b	lysosomal associated protein transmembrane 4 beta
AI317813	1.00	-1.58	-1.63	Null	EST234484 PC12 CELLS, UNTREATED, PT7T3PAC, TIGR
AW528454	1.00	-1.58	-1.80	Isg20l1_predicted	apoptosis enhancing nuclease
NM_053842.1	1.00	-1.58	-1.50	Mapk1	mitogen-activated protein kinase 1
BF391522	1.00	-1.58	-1.31	Rnf139	ring finger protein 139
NM_053404.1	1.00	-1.58	-1.09	Dctn4	dynactin 4 (p62)
NM_021701.1	1.00	-1.58	-1.97	Ppp3r2	protein phosphatase 3 (formerly 2B), regulatory subunit B, beta isoform
NM_130433.1	1.00	-1.58	-2.38	Acaa2	acetyl-Coenzyme A acyltransferase 2
BF394030	1.00	-1.58	-1.34	Null	UI-R-CA0-BGY-B-01-0-UI.S1 UI-R-CA0
AI179316	1.00	-1.58	-1.78	Ankmy2_predicted	ankyrin repeat and MYND domain containing 2
NM_031758.1	1.00	-1.59	-1.37	Mchr1	melanin-concentrating hormone receptor 1
AB005052	1.00	-1.59	-1.28	Hip1r	huntingtin interacting protein 1 related
AI227742	1.00	-1.59	-1.68	Bok	BCL2-related ovarian killer
AI176713	1.00	-1.59	-2.75	Dlc1	deleted in liver cancer 1
BE095842	1.00	-1.60	1.14	Cyb561d1	cytochrome b-561 domain containing 1
BF285164	1.00	-1.60	-1.23	Popdc2	popeye domain containing 2
AI411742	1.00	-1.60	-1.65	Sesn1_predicted	sestrin 1
AW531404	1.00	-1.60	-2.05	Atpaf1	ATP synthase mitochondrial F1 complex assembly factor 1
AW435463	1.00	-1.60	-1.53	Null	UI-R-BJ0P-AFU-G-06-0-UI.S1 UI-R-BJ0P
M33296	1.00	-1.60	-1.76	Cyp2g1p	cytochrome P450, family 2, subfamily G, polypeptide 1 pseudogene
BF410170	1.00	-1.60	-1.76	Null	UI-R-CA1-BJU-C-11-0-UI.S1 UI-R-CA1
AA858695	1.00	-1.60	-1.80	Mrps33_predicted	mitochondrial ribosomal protein S33
NM_012868.1	1.00	-1.60	-3.00	Npr3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AA892273	1.00	-1.60	-1.43	Rfx5	regulatory factor X, 5 (influences HLA class II expression)
AI171651	1.00	-1.61	-1.51	Tmem123	transmembrane protein 123
BF282483	1.00	-1.61	1.07	Null	EST447074 RAT GENE INDEX, NORMALIZED RAT,
NM_053986.1	1.00	-1.61	-1.66	Myo1b	myosin IB
NM_031561.1	1.00	-1.61	1.90	Cd36	CD36 molecule (thrombospondin receptor)
AA894262	1.00	-1.61	-1.45	Sept1	septin 1
BF551328	1.00	-1.61	-1.17	Klhl7	kelch-like 7 (Drosophila)
NM_013015.1	1.00	-1.61	-1.49	Ptgds	prostaglandin D2 synthase 21kDa (brain)
AI406525	1.00	-1.61	-2.09	Null	EST234811 NORMALIZED RAT BRAIN, BENTO SOARES
NM_053310.1	1.00	-1.62	-1.38	Homer3	homer homolog 3 (Drosophila)
AW525071	1.00	-1.62	-1.20	Slc44a4	solute carrier family 44, member 4
AW142654	1.00	-1.62	1.01	Null	EST292906 NORMALIZED RAT EMBRYO, BENTO SOARES
BE107051	1.00	-1.62	-1.47	Null	UI-R-BS1-AYP-C-04-0-UI.S1 UI-R-BS1
AI044340	1.00	-1.62	-1.68	Psrc1	proline/serine-rich coiled-coil 1
AF079864	1.00	-1.62	-1.96	Or51e2	olfactory receptor, family 51, subfamily E, member 2
NM_012793.1	1.00	-1.62	-2.02	Gamt	guanidinoacetate N-methyltransferase
NM_013198.1	1.00	-1.63	-1.50	Maob	monoamine oxidase B
AI233257	1.00	-1.63	-1.89	Null	EST229945 NORMALIZED RAT KIDNEY, BENTO SOARES
BF550847	1.00	-1.63	-1.71	JAJB3 (Includes EG:1551	DnaJ (Hsp40) homolog, subfamily B, member 3
AW915886	1.00	-1.63	-1.37	Ptp1a	protein tyrosine phosphatase-like , member A
AI010423	1.00	-1.63	-1.72	Null	EST204874 NORMALIZED RAT LUNG, BENTO SOARES
AW915738	1.00	-1.63	-1.60	Null	EST347042
BE108249	1.00	-1.63	-1.66	Ptpn14	protein tyrosine phosphatase, non-receptor type 14
AA946474	1.00	-1.63	-1.61	Cast	calpastatin
AW253928	1.00	-1.63	-1.78	Etv4_predicted	ets variant gene 4 (E1A enhancer binding protein, E1AF)
BE107159	1.00	-1.63	-1.78	Psip1	PC4 and SFRS1 interacting protein 1
AW142369	1.00	-1.64	-1.32	Heatr5b	HEAT repeat containing 5B
BF409313	1.00	-1.64	-1.66	Hddc2_predicted	HD domain containing 2
BF386302	1.00	-1.64	-1.78	Null	UI-R-CA1-BBC-H-10-0-UI.S1 UI-R-CA1
BF414947	1.00	-1.64	-1.79	Dusp14_predicted	dual specificity phosphatase 14
BE110547	1.00	-1.64	-2.06	Null	UI-R-BJ1-AVT-C-08-0-UI.S1 UI-R-BJ1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW528057	1.00	-1.64	-2.28	Null	UI-R-BT1-AKH-B-11-0-UI.S1 UI-R-BT1
BF283694	1.00	-1.64	-2.42	Null	EST448285 RAT GENE INDEX, NORMALIZED RAT,
NM_012853.1	1.00	-1.64	-1.43	Htr4	5-hydroxytryptamine (serotonin) receptor 4
AW915107	1.00	-1.64	-1.52	Null	EST346411
BF282686	1.00	-1.65	-1.78	Kiaa1826	KIAA1826
BE113228	1.00	-1.65	-2.19	C4orf29	chromosome 4 open reading frame 29
NM_017032.1	1.00	-1.65	-1.53	Pde4d	phosphodiesterase 4d, cAMP-specific
AI598371	1.00	-1.65	-1.75	Null	EST250074 NORMALIZED RAT EMBRYO, BENTO SOARES
AI012390	1.00	-1.65	-2.01	Null	EST206841 NORMALIZED RAT PLACENTA, BENTO SOARES
NM_031559.1	1.00	-1.65	-1.90	Cpt1a	carnitine palmitoyltransferase 1A (liver)
AW917761	1.00	-1.65	-2.50	Fam126b	family with sequence similarity 126, member B
NM_052798.1	1.00	-1.65	-1.28	Znf354a	zinc finger protein 354A
BE102400	1.00	-1.66	-1.54	Tln2	talin 2
NM_031347.1	1.00	-1.66	-1.76	Ppargc1a	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
AW919132	1.00	-1.66	-1.52	Null	EST350436
BE113384	1.00	-1.66	-1.61	Nsd1	nuclear receptor binding SET domain protein 1
AA945750	1.00	-1.66	-2.72	Null	EST201249 NORMALIZED RAT LUNG, BENTO SOARES
NM_053321.1	1.00	-1.66	-1.24	Ptafr	platelet-activating factor receptor
BF398537	1.00	-1.66	-1.50	Null	UI-R-BS2-BEP-H-11-0-UI.S1 UI-R-BS2
AI407992	1.00	-1.66	-1.71	Null	EST236282 NORMALIZED RAT PLACENTA, BENTO SOARES
NM_012733.1	1.00	-1.66	-1.23	Rbp1	retinol binding protein 1, cellular
BF393884	1.00	-1.66	-1.47	Null	UI-R-CA0-BGW-B-06-0-UI.S1 UI-R-CA0
BF418913	1.00	-1.67	-1.49	Wwtr1	WW domain containing transcription regulator 1
BF545957	1.00	-1.67	-1.78	Null	UI-R-C2P-RD-B-05-0-UI.R1 UI-R-C2P
NM_017299.1	1.00	-1.67	-1.63	Slc19a1	solute carrier family 19 (folate transporter), member 1
NM_031601.1	1.00	-1.67	-1.63	Cacna1g	calcium channel, voltage-dependent, T type, alpha 1G subunit
AI180458	1.00	-1.67	-1.39	Psme4	proteasome (prosome, macropain) activator subunit 4
NM_022943.1	1.00	-1.67	-2.04	Mertk	c-mer proto-oncogene tyrosine kinase
U30789	1.00	-1.67	1.30	Txnip	thioredoxin interacting protein
AW141926	1.00	-1.68	-1.08	Null	EST292041
BF562347	1.00	-1.68	-1.80	Null	UI-R-BU0-ANC-G-01-0-UI.R1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_017188.1	1.00	-1.68	-2.49	Unc119	unc-119 homolog (C. elegans)
AA891470	1.00	-1.68	-1.73	Gpihbp1	glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1
BF282288	1.00	-1.69	-1.33	Null	EST446967 RAT GENE INDEX, NORMALIZED RAT,
AA998252	1.00	-1.69	-1.57	Null	UI-R-C0-IE-F-02-0-UI.S1 UI-R-C0
BF551318	1.00	-1.69	1.61	Herc4	hect domain and RLD 4
AI102009	1.00	-1.69	-2.48	Prkra	protein kinase, interferon-inducible double stranded RNA dependent activator
BE108201	1.00	-1.69	-1.52	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2
NM_012659.1	1.00	-1.69	-1.15	Sst	somatostatin
AI233769	1.00	-1.69	-1.79	Null	EST230457 NORMALIZED RAT KIDNEY, BENTO SOARES
NM_053878.1	1.00	-1.70	-1.75	Cplx2	complexin 2
AI169596	1.00	-1.70	-1.86	C15orf29	chromosome 15 open reading frame 29
AA817752	1.00	-1.70	-1.50	Snx2_predicted	sorting nexin 2
AI178196	1.00	-1.70	-1.84	Bahd1	bromo adjacent homology domain containing 1
NM_013176.1	1.00	-1.70	-1.26	Tcf12	transcription factor 12 (HTF4, helix-loop-helix transcription factors 4)
AA946467	1.00	-1.70	-1.99	Null	EST201966 NORMALIZED RAT OVARY, BENTO SOARES
BE116848	1.00	-1.71	-1.43	Null	UI-R-BS1-AZG-A-01-0-UI.S1 UI-R-BS1
NM_080690.1	1.00	-1.71	-1.45	Caskin1	CASK interacting protein 1
AW915120	1.00	-1.71	-1.42	Denndac	DENN/MADD domain containing 4C
AI233199	1.00	-1.71	-2.09	Null	EST229887 NORMALIZED RAT KIDNEY, BENTO SOARES
AA963367	1.00	-1.71	-1.59	Tm9sf3	transmembrane 9 superfamily member 3
AF016047	1.00	-1.72	-1.13	Pafah1b3	platelet-activating factor acetylhydrolase, isoform Ib, gamma subunit 29kDa
AA859141	1.00	-1.72	-1.27	Papd4	PAP associated domain containing 4
AI555337	1.00	-1.72	-1.22	Klhl11_predicted	kelch-like 11 (Drosophila)
NM_012504.1	1.00	-1.72	-2.16	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide
NM_134453.1	1.00	-1.72	-1.61	Lbr	lamin B receptor
AA858649	1.00	-1.72	-1.77	Vps36_predicted	vacuolar protein sorting 36 homolog (S. cerevisiae)
X61677	1.00	-1.72	-1.58	Itpr2	inositol 1,4,5-triphosphate receptor, type 2
NM_013129.1	1.00	-1.72	-1.72	Il15	interleukin 15
NM_030994.1	1.00	-1.73	-1.20	Itga1	integrin, alpha 1
AI010721	1.00	-1.73	-1.62	C14orf94	chromosome 14 open reading frame 94
NM_030834.1	1.00	-1.73	-2.12	Slc16a3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_017241.1	1.00	-1.73	-2.43	Grik1	glutamate receptor, ionotropic, kainate 1
AA849966	1.00	-1.73	-2.00	Null	EST192733 NORMALIZED RAT MUSCLE, BENTO SOARES
BF411381	1.00	-1.73	-1.30	Null	UI-R-CN0-BMJ-G-04-0-UI.S1 UI-R-CN0
AI555457	1.00	-1.73	-1.86	Ctnn1_predicted	catenin (cadherin-associated protein), alpha-like 1
AI171975	1.00	-1.73	-2.13	Sec24a	SEC24 related gene family, member A (S. cerevisiae)
AI171775	1.00	-1.73	-1.73	Null	EST217757 NORMALIZED RAT MUSCLE, BENTO SOARES
BE108162	1.00	-1.73	-1.80	Glcci1	glucocorticoid induced transcript 1
AI599232	1.00	-1.73	-2.44	Null	EST250935 NORMALIZED RAT EMBRYO, BENTO SOARES
BF405996	1.00	-1.74	-2.28	Cacna2d3	calcium channel, voltage-dependent, alpha 2/delta subunit 3
NM_053965.1	1.00	-1.74	-1.03	Slc25a20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
NM_012789.1	1.00	-1.74	-1.66	Dpp4	dipeptidyl-peptidase 4
BF410183	1.00	-1.74	-1.86	Null	UI-R-CA1-BJU-D-12-0-UI.S1 UI-R-CA1
AA892824	1.00	-1.75	1.15	Tnc	tenascin C (hexabrachion)
X76996	1.00	-1.75	-1.77	Gzmb	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
NM_019216.1	1.00	-1.75	-1.42	Gdf15	growth differentiation factor 15
AI411809	1.00	-1.75	-2.17	Null	EST240103 NORMALIZED RAT KIDNEY, BENTO SOARES
AF030377	1.00	-1.75	-1.19	Tie1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1
AA799503	1.00	-1.75	-2.61	Null	EST189000 NORMALIZED RAT HEART, BENTO SOARES
NM_080582.1	1.00	-1.75	-1.70	Abcb6	ATP-binding cassette, sub-family B (MDR/TAP), member 6
NM_054006.1	1.00	-1.76	-1.75	Csde1	cold shock domain containing E1, RNA-binding
BG671331	1.00	-1.76	-2.29	Null	DRNBPB03
M87067	1.00	-1.76	-1.95	Acvr2b	activin A receptor, type IIB
BE098855	1.00	-1.76	-2.01	Ctdspl	CTD (carboxy-terminal domain) small phosphatase-like
AW142170	1.00	-1.76	-1.92	Rev3l	REV3-like, catalytic subunit of DNA polymerase zeta (yeast)
AI070025	1.00	-1.76	-1.44	Null	UI-R-C1-LN-B-09-0-UI.S1
BE111638	1.00	-1.76	-1.24	Galnt2_predicted	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2
NM_080888.1	1.00	-1.76	-1.65	Bnip3l	BCL2/adenovirus E1B 19kDa interacting protein 3-like
AI178923	1.00	-1.77	-1.94	Glcci1	glucocorticoid induced transcript 1
BF281544	1.00	-1.77	-1.90	Reln	reelin
AW917390	1.00	-1.77	-1.38	Null	EST348694
AI406896	1.00	-1.77	-1.61	c19orf2	chromosome 19 open reading frame 2

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AW532687	1.00	-1.78	-1.26	Null	UI-R-BS0-AMK-H-11-0-UI.S1 UI-R-BS0
AI407827	1.00	-1.78	-1.21	Pik3cd_predicted	phosphoinositide-3-kinase, catalytic, delta polypeptide
NM_017161.1	1.00	-1.78	-1.59	Adora2b	adenosine A2b receptor
AI598307	1.00	-1.78	-2.73	Slc45a3_predicted	solute carrier family 45, member 3
AW251360	1.00	-1.78	-2.11	C1qtnf6	C1q and tumor necrosis factor related protein 6
NM_053605.1	1.00	-1.79	-2.89	Smpd3	sphingomyelin phosphodiesterase 3, neutral membrane
AI411227	1.00	-1.79	-2.28	Atrnl1	attractin-like 1
BF404027	1.00	-1.79	-2.12	Null	UI-R-CA1-BJD-I-24-0-UI.S1 UI-R-CA1
AI412662	1.00	-1.79	-2.05	Efnb3_predicted	ephrin-B3
NM_016986.1	1.00	-1.80	-2.61	Acadm	acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain
AW523755	1.00	-1.80	-2.16	Ppp1r1a	protein phosphatase 1, regulatory (inhibitor) subunit 1A
BF405086	1.00	-1.80	-1.61	Null	UI-R-CA1-BIP-D-11-0-UI.S1 UI-R-CA1
AW252878	1.00	-1.80	-1.66	Pxdn	peroxidasin homolog (Drosophila)
BF550401	1.00	-1.80	-1.95	Cct5	chaperonin containing TCP1, subunit 5 (epsilon)
NM_019238.1	1.00	-1.80	-2.35	Fdft1	farnesyl-diphosphate farnesyltransferase 1
AI172271	1.00	-1.80	-2.70	Emcn	endomucin
BF290076	1.00	-1.80	-1.84	Gem_predicted	GTP binding protein overexpressed in skeletal muscle
AI231444	1.00	-1.80	-2.06	Loc289233	similar to Peroxisomal biogenesis factor 19 (Peroxin-19)
NM_053619.1	1.00	-1.80	-2.00	C5ar1	complement component 5a receptor 1
BF283084	1.00	-1.81	-1.76	Sftd2	SFT2 domain containing 2
BF567872	1.00	-1.81	-1.39	Null	UI-R-BO0-AHO-B-09-0-UI.R1
NM_012504.1	1.00	-1.81	-2.08	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide
AW918182	1.00	-1.81	-1.54	Null	EST349486 RAT GENE INDEX, NORMALIZED RAT, NORVEGICUS, BENTO SOARES
AA799329	1.00	-1.81	-1.92	Fam111a	family with sequence similarity 111, member A
BF403009	1.00	-1.81	-1.92	Null	UI-R-CA0-BHL-D-08-0-UI.S1 UI-R-CA0
NM_017216.1	1.00	-1.81	-2.01	Slc3a1	solute carrier family 3, member 1
BF404539	1.00	-1.81	-1.59	Null	UI-R-CA1-BIG-B-12-0-UI.S1 UI-R-CA1
AI412002	1.00	-1.81	-1.87	Trnt1	tRNA nucleotidyl transferase, CCA-adding, 1
BF402407	1.00	-1.81	1.02	Rhobtb2	Rho-related BTB domain containing 2
NM_019305.1	1.00	-1.82	-1.48	Fgf2	fibroblast growth factor 2 (basic)
BF405932	1.00	-1.82	-1.74	Null	UI-R-CA1-BII-G-01-0-UI.S1 UI-R-CA1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AA858817	1.00	-1.83	-2.86	C10orf10	chromosome 10 open reading frame 10
AW918541	1.00	-1.83	-2.20	Null	EST349845
NM_031115.1	1.00	-1.83	-1.40	Sctr	secretin receptor
BE109637	1.00	-1.83	-3.32	Fn3k	fructosamine 3 kinase
M81639	1.00	-1.83	-2.06	Snn	stannin
NM_012511.1	1.00	-1.83	-1.29	Atp7b	ATPase, Cu++ transporting, beta polypeptide
AW528971	1.00	-1.83	-1.20	Traf3ip2	TRAF3 interacting protein 2
AF002251	1.00	-1.83	-1.81	Rassf5	Ras association (RalGDS/AF-6) domain family member 5
AW920324	1.00	-1.83	-1.88	Fat4	FAT tumor suppressor homolog 4 (Drosophila)
NM_019186.1	1.00	-1.84	-1.74	Arl4a	ADP-ribosylation factor-like 4A
NM_031663.1	1.00	-1.84	-1.95	Slc18a3	solute carrier family 18 (vesicular acetylcholine), member 3
BE103440	1.00	-1.84	-1.98	Null	UI-R-BX0-ARC-B-03-0-UI.S1 UI-R-BX0
BF565001	1.00	-1.84	-1.57	Pde4d	phosphodiesterase 4d, cAMP-specific
BE115519	1.00	-1.85	-1.42	Sox4	SRY (sex determining region Y)-box 4
NM_012780.1	1.00	-1.85	-1.47	Arnt	aryl hydrocarbon receptor nuclear translocator
AI012456	1.00	-1.85	-1.48	Spcs3	signal peptidase complex subunit 3 homolog (S. cerevisiae)
AW919696	1.00	-1.85	-1.98	Null	EST351000
NM_021669.1	1.00	-1.85	-1.87	Ghrl	ghrelin/obestatin prepropeptide
BF284887	1.00	-1.85	-1.90	C20orf194	chromosome 20 open reading frame 194
AI113104	1.00	-1.85	-2.01	Prc1_predicted	protein regulator of cytokinesis 1
AI146056	1.00	-1.86	-1.20	Nxph3	neurexophilin 3
AI235610	1.00	-1.86	-1.57	Null	EST232172 NORMALIZED RAT OVARY, BENTO SOARES
L38615	1.00	-1.86	-1.53	Gss	glutathione synthetase
BF390003	1.00	-1.87	-1.50	C7orf60	chromosome 7 open reading frame 60
AI011455	1.00	-1.87	-1.31	Null	EST205906 NORMALIZED RAT OVARY, BENTO SOARES
AI555237	1.00	-1.87	-1.43	Null	UI-R-C2P-QU-H-11-0-UI.S1 UI-R-C2P
AW915491	1.00	-1.87	-1.18	Cep170	centrosomal protein 170kDa
BG671716	1.00	-1.87	-1.80	Nudt7_predicted	nudix (nucleoside diphosphate linked moiety X)-type motif 7
BF394170	1.00	-1.87	-2.08	Jdp2	Jun dimerization protein 2
AA850909	1.00	-1.88	-2.25	Pvrl2	poliovirus receptor-related 2 (herpesvirus entry mediator B)
BE113264	1.00	-1.88	-1.87	Osbp19_predicted	oxysterol binding protein-like 9

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_017092.1	1.00	-1.88	-1.32	Tyro3	TYRO3 protein tyrosine kinase
BE113599	1.00	-1.88	-1.64	Null	UI-R-BJ1-AWG-B-09-0-UI.S1 UI-R-BJ1
AI176950	1.00	-1.88	-1.87	Null	EST220556 NORMALIZED RAT OVARY, BENTO SOARES
BF396317	1.00	-1.88	-2.31	Null	UI-R-BS2-BDW-G-05-0-UI.S1 UI-R-BS2
BF288765	1.00	-1.88	-1.54	Null	EST453266 RAT GENE INDEX, NORMALIZED RAT,
BF407675	1.00	-1.89	-1.88	Null	UI-R-BJ2-BQV-A-11-0-UI.S1 UI-R-BJ2
NM_013187.1	1.00	-1.89	-2.59	Plcg1	phospholipase C, gamma 1
AI600255	1.00	-1.89	-1.74	C10orf26	chromosome 10 open reading frame 26
AW531361	1.00	-1.90	-2.24	Pnmal2	PNMA-like 2
NM_012944.1	1.00	-1.90	-1.38	Drd4	dopamine receptor D4
AW532214	1.00	-1.90	-1.44	Null	UI-R-C4-ALJ-G-04-0-UI.S1 UI-R-C4
AI010432	1.00	-1.90	-2.42	Ppp1r3d	protein phosphatase 1, regulatory (inhibitor) subunit 3D
NM_022936.1	1.00	-1.91	-3.55	Ephx2	epoxide hydrolase 2, cytoplasmic
BF389882	1.00	-1.91	-1.64	Shprh_predicted	SNF2 histone linker PHD RING helicase
NM_019303.1	1.00	-1.91	-2.70	Cyp2f1	cytochrome P450, family 2, subfamily F, polypeptide 1
NM_012702.1	1.00	-1.91	-1.97	CAM3 (Includes EG:384	carcinoembryonic antigen-related cell adhesion molecule 3
NM_019295.1	1.00	-1.91	-2.74	Cd5	CD5 molecule
AI177379	1.00	-1.92	-1.69	Null	EST220999 NORMALIZED RAT PLACENTA, BENTO SOARES
AI179315	1.00	-1.92	-2.28	B3gnt2	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2
BF564049	1.00	-1.92	-1.38	Null	UI-R-C4-AKY-A-09-0-UI.R1
AA955175	1.00	-1.92	-3.02	Null	UI-R-A1-DU-B-04-0-UI.S1 UI-R-A1
NM_053988.1	1.00	-1.93	-1.07	Calb2	calbindin 2
AI227924	1.00	-1.93	-1.82	Purg_predicted	purine-rich element binding protein G
BF550413	1.00	-1.93	-1.70	Null	UI-R-A1-EG-F-07-0-UI.R1
AI412740	1.00	-1.93	-2.18	Null	EST241039 NORMALIZED RAT BRAIN, BENTO SOARES
NM_031977.1	1.00	-1.93	-2.04	Src	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
AA946375	1.00	-1.94	-1.58	Smc5l1_predicted	structural maintenance of chromosomes 5
Z83035	1.00	-1.94	-1.64	C10orf26	chromosome 10 open reading frame 26
BF407916	1.00	-1.94	-2.04	Gdf11	growth differentiation factor 11
AF205635	1.00	-1.94	-1.20	Cdc42	cell division cycle 42 pseudogene
BF285068	1.00	-1.96	-2.06	Ciapi1	cytokine induced apoptosis inhibitor 1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
AI009530	1.00	-1.96	-1.91	C4orf18	chromosome 4 open reading frame 18
U73503	1.00	-1.96	-1.60	Camk2g	calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma
U61729	1.00	-1.97	-1.69	Pnrc1	proline-rich nuclear receptor coactivator 1
BF289154	1.00	-1.97	-1.91	Null	EST453745 RAT GENE INDEX, NORMALIZED RAT,
AI575445	1.00	-1.98	-3.69	Ccdc65	coiled-coil domain containing 65
AI176781	1.00	-1.98	-2.31	Null	EST220376 NORMALIZED RAT OVARY, BENTO SOARES
AI406984	1.00	-1.99	-3.22	Null	EST235272 NORMALIZED RAT OVARY, BENTO SOARES
NM_053403.1	1.00	-1.99	-1.75	Grb7	growth factor receptor-bound protein 7
AA858930	1.00	-2.00	-2.16	Pde4b	phosphodiesterase 4b, cAMP-specific
BF282381	1.00	-2.00	-1.97	Null	EST446884 RAT GENE INDEX, NORMALIZED RAT,
AA892496	1.00	-2.01	-1.37	Null	EST196299 NORMALIZED RAT KIDNEY, BENTO SOARES
NM_024158.1	1.00	-2.02	-1.41	Dck	deoxycytidine kinase
AW143149	1.00	-2.03	-1.85	Gnpda2_predicted	glucosamine-6-phosphate deaminase 2
BF283760	1.00	-2.03	-1.93	Ldb2_predicted	LIM domain binding 2
AI411194	1.00	-2.04	-1.55	Pnpla2_predicted	patatin-like phospholipase domain containing 2
BG673439	1.00	-2.05	-2.46	Cldn11	claudin 11 (oligodendrocyte transmembrane protein)
NM_019372.1	1.00	-2.06	-2.32	Ppm2c	protein phosphatase 2C, magnesium-dependent, catalytic subunit
AI171772	1.00	-2.07	-1.65	Rp5-1022p6.2	hypothetical protein KIAA1434
AI230591	1.00	-2.07	-1.32	Ctla2a	cytotoxic T lymphocyte-associated protein 2 alpha
BE108405	1.00	-2.08	-1.69	Null	UI-R-BS1-AYV-H-06-0-UI.S1 UI-R-BS1
AA892554	1.00	-2.08	-2.10	G3bp2	GTPase activating protein (SH3 domain) binding protein 2
AW915638	1.00	-2.09	-2.26	Mdfic	MyoD family inhibitor domain containing
BF556836	1.00	-2.09	-1.68	Btbd16	BTB (POZ) domain containing 16
BG670878	1.00	-2.09	-1.68	Null	DRNBHH09
AI410818	1.00	-2.09	-3.80	Null	EST239111 NORMALIZED RAT HEART, BENTO SOARES
BE111650	1.00	-2.10	-1.80	Garnl1	GTPase activating Rap/RanGAP domain-like 1
AI599484	1.00	-2.11	-2.45	Loc1001308	similar to hCG2030844
BF395777	1.00	-2.12	-2.29	Null	UI-R-BT1-BKC-B-10-0-UI.S1 UI-R-BT1
NM_133387.1	1.00	-2.12	-2.34	Tmlhe	trimethyllysine hydroxylase, epsilon
NM_012612.1	1.00	-2.12	-1.86	Nppa	natriuretic peptide precursor A
AI511275	1.00	-2.13	-2.70	Null	UI-R-C3-SV-C-03-0-UI.S1 UI-R-C3

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
BF523712	1.00	-2.13	-2.12	Null	UI-R-Y0-VB-B-03-0-UI.R1
BF283600	1.00	-2.14	-2.63	Papss2_predicted	3'-phosphoadenosine 5'-phosphosulfate synthase 2
BE104373	1.00	-2.14	-2.40	Null	UI-R-BX0-ARO-B-01-0-UI.S1 UI-R-BX0
NM_057127.1	1.00	-2.14	-2.20	Slc26a2	solute carrier family 26 (sulfate transporter), member 2
AI639139	1.00	-2.15	-1.67	Null	RX04483S RAT MIXED-TISSUE LIBRARY
NM_012972.1	1.00	-2.15	-2.45	Kcna5	potassium voltage-gated channel, shaker-related subfamily, member 5
AI705731	1.00	-2.16	-1.94	Mtus1	mitochondrial tumor suppressor 1
AI412192	1.00	-2.16	-2.65	Sar1b	SAR1 gene homolog B (S. cerevisiae)
NM_138511.1	1.00	-2.16	-1.96	Gpc2	glypican 2
AI044229	1.00	-2.17	-1.43	Cul4b_predicted	cullin 4B
AW254017	1.00	-2.17	-1.90	Col5a1	collagen, type V, alpha 1
BE103689	1.00	-2.18	-1.83	Zfx4_predicted	zinc finger homeobox 4
AW252871	1.00	-2.18	-1.68	Mki67_predicted	antigen identified by monoclonal antibody Ki-67
BE099629	1.00	-2.18	-1.98	C3orf26	chromosome 3 open reading frame 26
BF406522	1.00	-2.19	-2.63	Cdr2	cerebellar degeneration-related protein 2, 62kDa
BF393863	1.00	-2.19	-2.46	Chd3	chromodomain helicase DNA binding protein 3
AI233702	1.00	-2.19	-2.22	Cmb1	carboxymethylenebutenolidase homolog (Pseudomonas)
NM_053580.1	1.00	-2.20	-1.86	Slc27a1	solute carrier family 27 (fatty acid transporter), member 1
NM_053535.1	1.00	-2.20	-2.20	Enpp1	ectonucleotide pyrophosphatase/phosphodiesterase 1
X00469	1.00	-2.22	-1.56	Cyp1a1	cytochrome P450, family 1, subfamily A, polypeptide 1
NM_053453.1	1.00	-2.23	-1.58	Rgs2	regulator of G-protein signaling 2, 24kDa
BF282712	1.00	-2.23	-1.81	Tmem82	transmembrane protein 82
U75928	1.00	-2.24	-2.72	Sparc	secreted protein, acidic, cysteine-rich (osteonectin)
AW918622	1.00	-2.25	-1.02	Null	EST349926
AI598486	1.00	-2.25	-1.24	Dpysl3	dihydropyrimidinase-like 3
BF284364	1.00	-2.25	-2.53	Null	EST448955 RAT GENE INDEX, NORMALIZED RAT,
NM_053857.1	1.00	-2.25	-1.71	Eif4ebp1	eukaryotic translation initiation factor 4E binding protein 1
AW916860	1.00	-2.26	-2.54	Null	EST348073
BF557889	1.00	-2.26	-1.68	Znf202	zinc finger protein 202
U86635	1.00	-2.27	-1.20	Gstm3	glutathione S-transferase M3 (brain)
AI406821	1.00	-2.29	-1.88	Nrsn1	neurensin 1

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
BF408325	1.00	-2.29	-4.15	C21orf63	chromosome 21 open reading frame 63
AA892049	1.00	-2.30	-3.07	Null	EST195852 NORMALIZED RAT KIDNEY, BENTO SOARES
AI072251	1.00	-2.30	-2.02	Null	UI-R-C2-MU-H-04-0-UI.S1 UI-R-C2
AA800476	1.00	-2.31	-3.03	Mettl7a	methyltransferase like 7A
AI102097	1.00	-2.31	-2.30	Null	EST211386 NORMALIZED RAT BRAIN, BENTO SOARES
AI406939	1.00	-2.31	-6.50	G0s2	G0/G1switch 2
AW251335	1.00	-2.32	-2.42	Spbc24_predicted	SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae)
BE112913	1.00	-2.32	-2.37	Null	UI-R-BJ1-AWA-C-09-0-UI.S1 UI-R-BJ1
NM_057192.1	1.00	-2.33	-2.22	Wipf1	WAS/WASL interacting protein family, member 1
BF414143	1.00	-2.34	-1.45	Gprc5c	G protein-coupled receptor, family C, group 5, member C
BE113132	1.00	-2.34	-2.54	Rapgef5	Rap guanine nucleotide exchange factor (GEF) 5
AI549393	1.00	-2.34	-2.84	Null	UI-R-C3-UA-C-05-0-UI.S1 UI-R-C3
NM_133395.1	1.00	-2.37	-1.90	Serinc5	serine incorporator 5
NM_013045.1	1.00	-2.37	-1.95	Tnr	tenascin R (restrictin, janusin)
D10354	1.00	-2.41	-2.47	Gpt	glutamic-pyruvate transaminase (alanine aminotransferase)
NM_031798.1	1.00	-2.43	-2.17	Slc12a2	solute carrier family 12 (sodium/potassium/chloride transporters), member 2
BF405135	1.00	-2.44	-1.47	Ankrd42_predicted	ankyrin repeat domain 42
NM_012929.1	1.00	-2.44	-1.77	Col2a1	collagen, type II, alpha 1
AI169829	1.00	-2.44	-5.51	Masp1	mannan-binding lectin serine peptidase 1
BF544703	1.00	-2.48	-2.20	Cplx1	complexin 1
AI170394	1.00	-2.48	1.07	Null	EST216320 NORMALIZED RAT LUNG, BENTO SOARES
BF283631	1.00	-2.49	-1.58	Stk38	serine/threonine kinase 38
AA817759	1.00	-2.49	-5.07	Slc25a25	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 25
AI411352	1.00	-2.50	-2.61	Gja1	gap junction protein, alpha 1, 43kDa
NM_019123.1	1.00	-2.50	-2.40	St6galnac3	ST6 -N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
BF290834	1.00	-2.51	-2.55	Null	EST455425 RAT GENE INDEX, NORMALIZED RAT,
NM_019157.1	1.00	-2.54	-1.86	Aqp7	aquaporin 7
AA892778	1.00	-2.55	-3.02	Null	EST196581 NORMALIZED RAT KIDNEY, BENTO SOARES
AI105417	1.00	-2.56	-4.64	C5orf13	chromosome 5 open reading frame 13
BF548601	1.00	-2.60	-2.79	Null	UI-R-A0-AU-C-02-0-UI.R1
AF020045	1.00	-2.60	-2.27	Itgae	integrin, alpha E

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_053487.1	1.00	-2.62	-2.27	Pex11a	peroxisomal biogenesis factor 11A
BF404935	1.00	-2.62	-1.13	Null	UI-R-CA1-BIJ-E-03-0-UI.S1 UI-R-CA1
NM_012959.1	1.00	-2.62	-3.16	Gfra1	GDNF family receptor alpha 1
AA858758	1.00	-2.65	-2.76	C6orf105	chromosome 6 open reading frame 105
BE118454	1.00	-2.68	-5.04	C9orf24	chromosome 9 open reading frame 24
M59967	1.00	-2.73	-3.12	Bdkrb2	bradykinin receptor B2
NM_013101.1	1.00	-2.76	-6.00	Pde4a	phosphodiesterase 4A, cAMP-specific
AA957618	1.00	-2.77	-3.88	Null	UI-R-E1-GB-D-03-0-UI.S1 UI-R-E1
U23407	1.00	-2.78	-1.97	Crabp2	cellular retinoic acid binding protein 2
NM_013101.1	1.00	-2.80	-5.53	Pde4a	phosphodiesterase 4A, cAMP-specific
BF522695	1.00	-2.81	-3.03	Sall2	sal-like 2 (Drosophila)
NM_017084.1	1.00	-2.82	-4.95	Gnmt	glycine N-methyltransferase
AA964289	1.00	-2.83	-1.76	C1orf192	chromosome 1 open reading frame 192
AI411897	1.00	-2.89	-2.52	Null	EST240191 NORMALIZED RAT KIDNEY, BENTO SOARES
NM_053958.1	1.00	-2.89	-2.21	Ccr3	chemokine (C-C motif) receptor 3
AW520812	1.00	-2.93	-2.51	Phlda3	pleckstrin homology-like domain, family A, member 3
BF397951	1.00	-2.94	-3.04	Null	UI-R-BS2-BEF-E-09-0-UI.S1 UI-R-BS2
BF398605	1.00	-2.96	-2.92	Acpl2	acid phosphatase-like 2
AW862656	1.00	-3.04	-4.16	Pex11a	peroxisomal biogenesis factor 11A
AW533663	1.00	-3.04	-3.66	Prodh	proline dehydrogenase (oxidase) 1
BF387347	1.00	-3.05	-6.78	Null	UI-R-CA1-BBR-D-06-0-UI.S1 UI-R-CA1
NM_013167.1	1.00	-3.09	1.02	Ucp3	uncoupling protein 3 (mitochondrial, proton carrier)
NM_021760.1	1.00	-3.17	-2.20	Col5a3	collagen, type V, alpha 3
M24327	1.00	-3.21	1.19	Mt1f	metallothionein 1F
BF283056	1.00	-3.28	-7.93	Retsat	retinol saturase (all-trans-retinol 13,14-reductase)
BF550748	1.00	-3.30	-1.44	Dsp	desmoplakin
AW916833	1.00	-3.33	-4.25	Retsat	retinol saturase (all-trans-retinol 13,14-reductase)
AW917133	1.00	-3.34	-2.92	Null	EST348437
J04035	1.00	-3.39	-2.74	Eln	elastin (supravalvular aortic stenosis, Williams-Beuren syndrome)
AI180010	1.00	-3.41	-3.67	Abcb10	ATP-binding cassette, sub-family B (MDR/TAP), member 10
BF553139	1.00	-3.42	-2.95	Mylk3	myosin light chain kinase 3

Table S1: Aging

Accession	Young	Aged Control	Aged Treated	Symbol	Description
NM_031543.1	1.00	-3.42	-4.12	Cyp2e1	cytochrome P450, family 2, subfamily E, polypeptide 1
Z78279	1.00	-3.67	-1.90	COLIA1	collagen, type I, alpha 1
AF325671	1.00	-3.69	-8.32	Kcnk2	potassium channel, subfamily K, member 2
AA818947	1.00	-3.69	1.12	Null	UI-R-A0-AS-D-12-0-UI.S1 UI-R-A0
AW918040	1.00	-3.73	-4.63	Null	EST349344
BE109138	1.00	-3.82	-4.10	Znf294	zinc finger protein 294
AI230287	1.00	-3.90	-3.31	Eraf_predicted	erythroid associated factor
L27339.1	1.00	-3.93	-5.56	Npr3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
BF558459	1.00	-4.10	-1.92	C11orf74	chromosome 11 open reading frame 74
BF405177	1.00	-4.17	-1.97	Tpd52l1	tumor protein D52-like 1
AI230431	1.00	-4.89	-4.93	Null	EST227126 NORMALIZED RAT EMBRYO, BENTO SOARES
M37394	1.00	-5.07	-1.74	Egfr	epidermal growth factor receptor
M33648	1.00	-6.13	-4.09	Hmgcs2	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial)
BF394261	1.00	-8.35	-2.50	Kiaa1604	KIAA1604 protein
BF417400	1.00	-11.29	-13.07	Crebl1	cAMP responsive element binding protein-like 1
AW913978	1.00	-13.23	-1.07	Null	EST293298