

Table 2A. Microarray results of intestinal genes differentially downregulated, under glucose perfusion only, between 20d and 10d old pups

Access number	Symbol	Name and function	Mean fold change	SE	Frequency
Metabolism					
AJ005642	bsp2	brain serine protease	-2.70	2.03	5
AB043870	Cln2	ceroid-lipofuscinosis, neuronal 2	-2.67	0.71	5
NM_016986	Acadm	acetyl-coenzyme A dehydrogenase, medium chain	-2.31	0.37	5
NM_017127	Chk	choline kinase	-2.27	0.47	5
NM_012533	Cpb1	carboxypeptidase B1	-1.99	0.47	5
AB010428	Cte1	cytosolic acyl-CoA thioesterase 1	-1.86	0.31	5
NM_017193	Kat2	kynurenine aminotransferase 2	-1.84	1.05	4
U43175	Atp6s14	ATPase, vacuolar, 14 kD	-1.74	0.67	4
X05341	Acaa2	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	-1.68	0.76	4
U53706	Mvd	mevalonate pyrophosphate decarboxylase	-1.55	0.79	4
Transcription/traduction activity					
AF220102	Ilf3	interleukin enhancer binding factor 3	-3.25	0.95	5
AF142629	Ddx25	DEAD (aspartate-glutamate-alanine-aspartate) box polypeptide 25	-1.61	0.39	5
NM_012555	Ets1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	-1.53	0.35	4
Signal transduction activity					
NM_012704	Ptger3	prostaglandin E receptor 3	-2.48	1.23	5
Y15054	Loc192276	tumor specific antigen 70 kDa	-2.05	0.63	5
U05784	MPL3	microtubule-associated proteins 1A/1B light chain 3	-1.98	0.90	5
M11794	Mt1a	Metallothionein	-1.83	0.63	5
AF065438	Ppicap	peptidylprolyl isomerase C-associated protein	-1.82	0.17	4
M75153	Rab11a	RAB11a, member RAS oncogene family	-1.79	0.64	5
X03015	Cd8a	CD8 antigen, alpha chain	-1.78	0.69	4
NM_017294	Pacsin1	protein kinase C and casein kinase substrate in neurons 1	-1.63	0.72	5
NM_017057	Tnp2	transition protein 2	-1.63	0.51	4
NM_019256	P2rx7	purinergic receptor P2X, ligand-gated ion channel, 7	-1.60	0.51	4
Proliferation/differentiation/development					
D50558	Cd86	CD86 antigen	-6.06	2.57	5
NM_012676	Tnnt2	troponin T2	-2.64	0.49	5
AJ001043	C4.4a	GPI-anchored metastasis-associated protein homolog	-2.18	0.48	4
M58404	Tmsb10	thymosin, beta 10	-2.17	0.56	5
AF022952	Vegfb	vascular endothelial growth factor B	-2.10	0.44	4
U66470	Cgr11	cell growth regulatory with EF-hand domain	-1.86	0.38	4
M94721		GAP-associated protein (p190).	-1.84	0.44	4
AF034250		Rattus norvegicus DD6G4-1 mRNA	-1.83	0.43	4

AF247002		Unknown mRNA	-1.74	0.55	4
AF086630	Vapa	vesicle-associated membrane protein, associated protein a	-1.74	1.45	4
U96637	Scya11	small inducible cytokine subfamily A11	-1.73	0.60	4
X07266		Rat gene 33	-1.62	0.57	4
AF187065	Ngfrap1	nerve growth factor receptor associated protein 1	-1.56	0.49	4
M17523		peptide tyrosine-tyrosine (YY) mRNA	-1.56	0.46	4
U17035	Cxcl10	chemokine (C-X-C motif) ligand 10	-1.47	0.43	5
Transport					
U76714	Slc39a1	iron-regulated transporter, member 1	-2.88	0.99	5
L34049	Lrp2	low density lipoprotein receptor-related protein 2	-2.22	0.84	5
Z11994	Lrpap1	low density lipoprotein receptor-related protein associated protein 1	-2.09	0.39	5
AF116896	Pdzk1	PDZ domain containing 1	-1.68	0.37	5
NM_012977	Lgals9	lectin, galactose binding, soluble 9	-1.62	0.32	5
Translation					
NM_020075	Eif5	eukaryotic initiation factor 5 (eIF-5)	-1.91	0.69	5
Hormone metabolism					
NM_017154	Srd5a2	steroid 5-alpha-reductase 2	-2.06	0.63	5
NM_017265	Hsd3b1	3beta-hydroxysteroid dehydrogenase 1	-2.01	0.93	5

Table 2A shows downregulated genes that changed by more than 1.5 fold in at least four of five samples. Values are mean \pm SE for each gene; $n = 5$. Negative values indicate the fold decrease in the expression of a gene in 20d old HG-perfused compared with 10d old HG-perfused intestine