

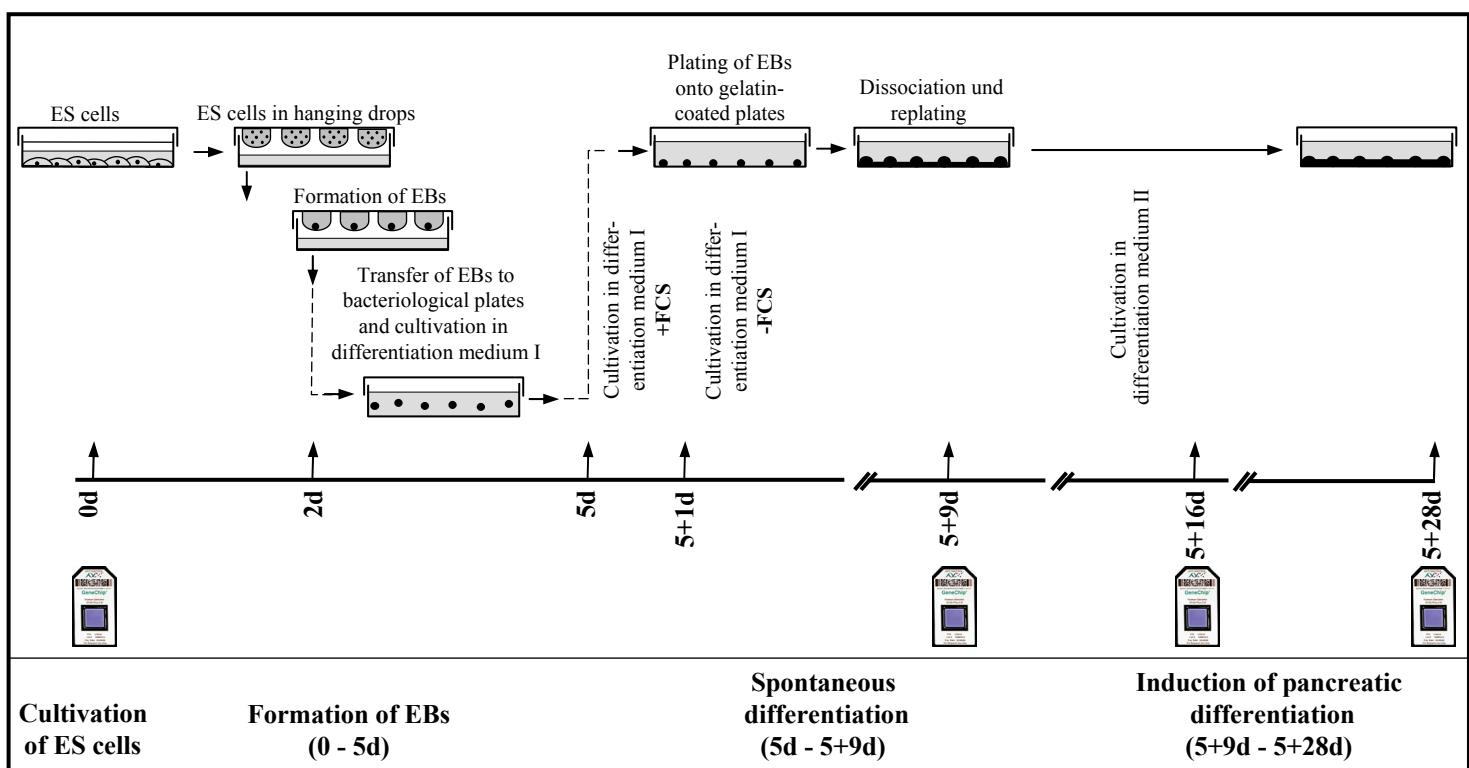
SUPPLEMENTARY MATERIAL

corresponding to:

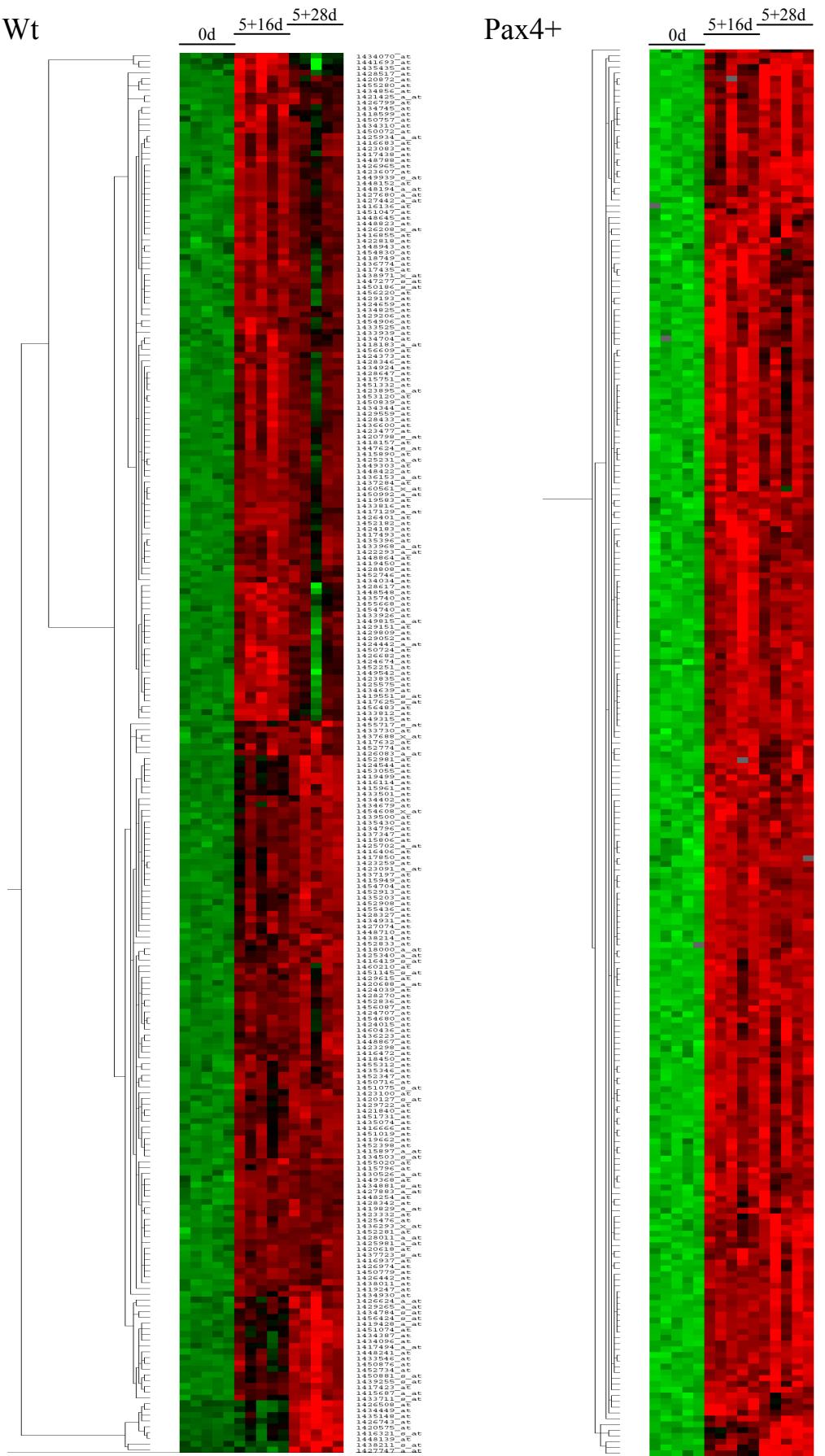
Characterization of mouse embryonic stem cell differentiation into the pancreatic lineage *in vitro* by transcriptional profiling, quantitative RT-PCR and immunocytochemistry

ALEXANDRA ROLLETSCHEK, INSA S. SCHROEDER, HERBERT SCHULZ, OLIVER HUMMEL,
NORBERT HUEBNER and ANNA M. WOBUS

Suppl. Figure S1: Differentiation protocol for wt and Pax4+ ES cells into the pancreatic lineage (Blyszzuk et al., 2004; Schroeder et al., 2006) and cell stages used for Affymetrix analysis (symbol) at days 0, 5+9 (only wt cells), 5+16 and 5+28.



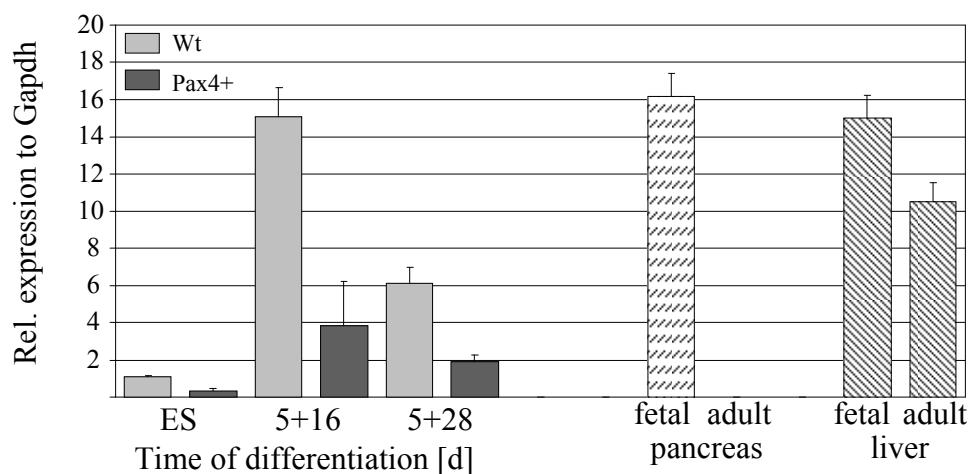
Suppl. Figure S2: Hierarchical clustering of probe sets two or more fold up-regulated



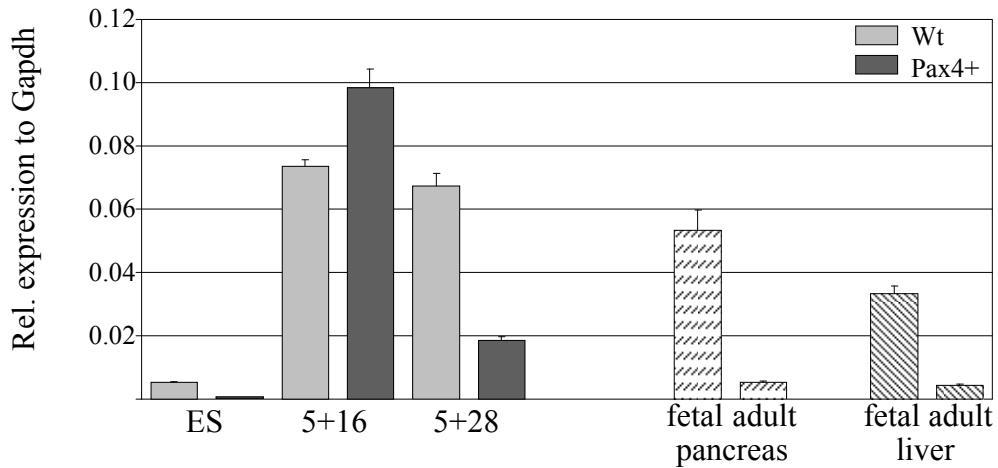
Suppl. Figure S3: Real time RT-PCR of selected genes

Transcriptional regulation:

Foxa1

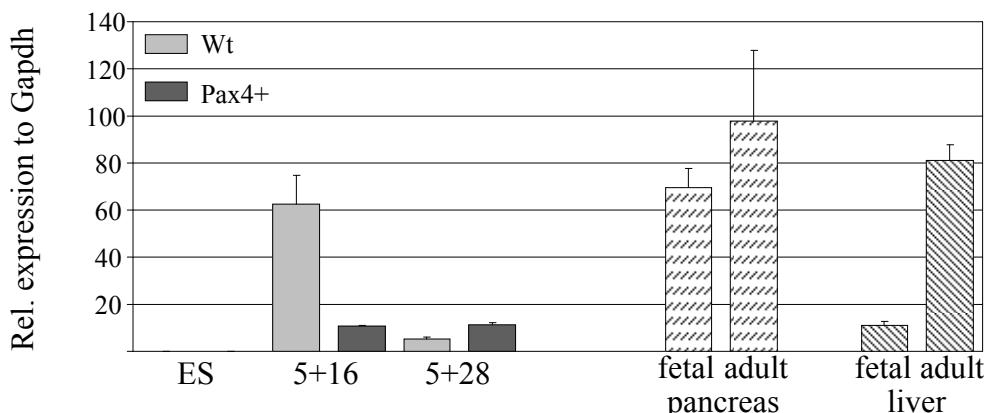


Hoxb2

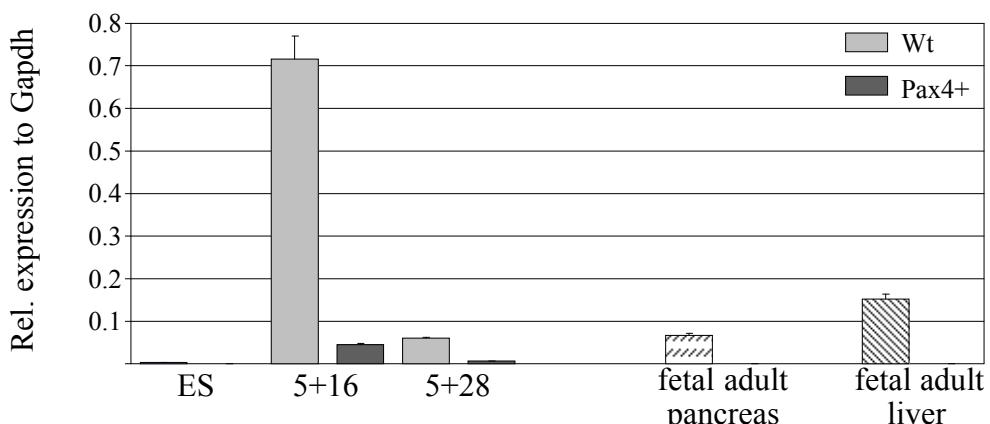


Signaling, growth factors:

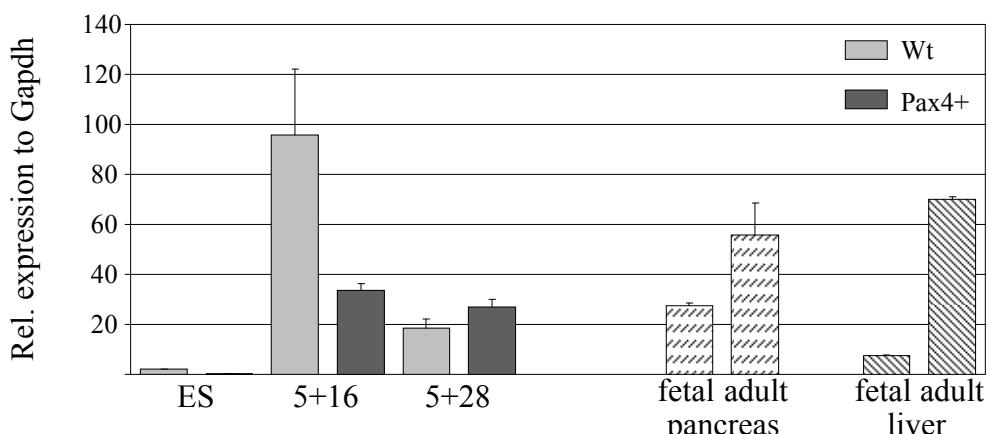
Igfl



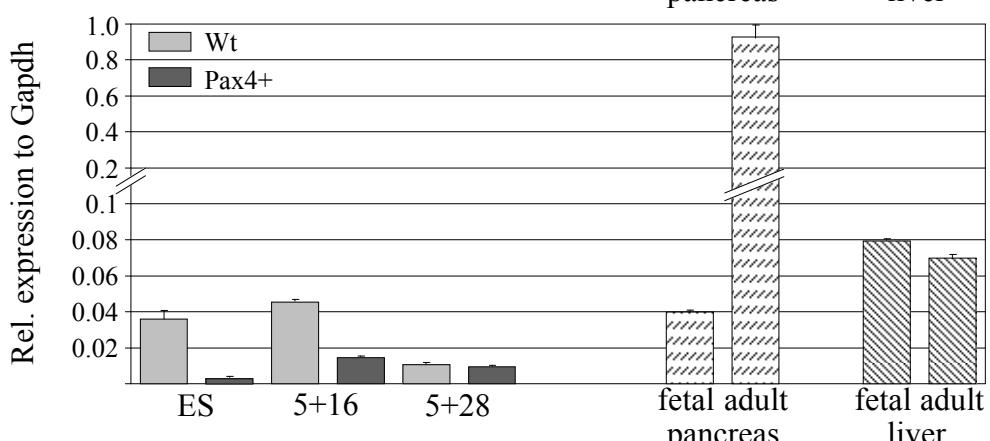
Igf2



Igfbp7

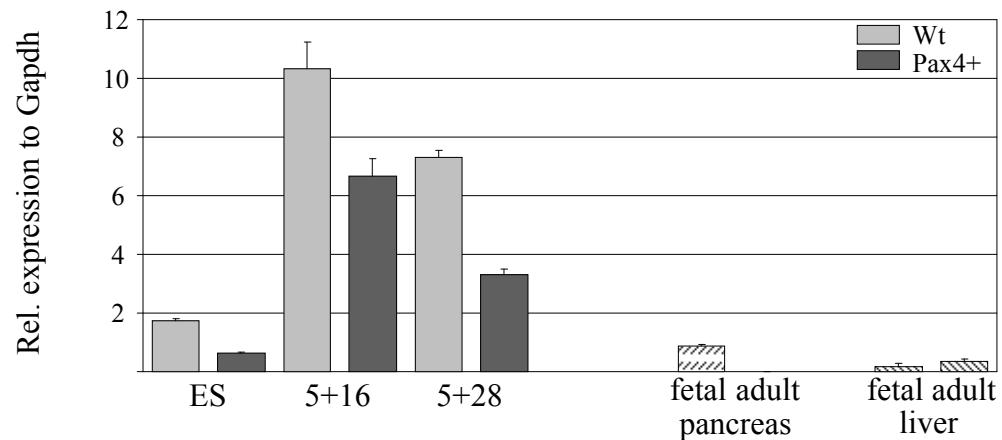


Irs1

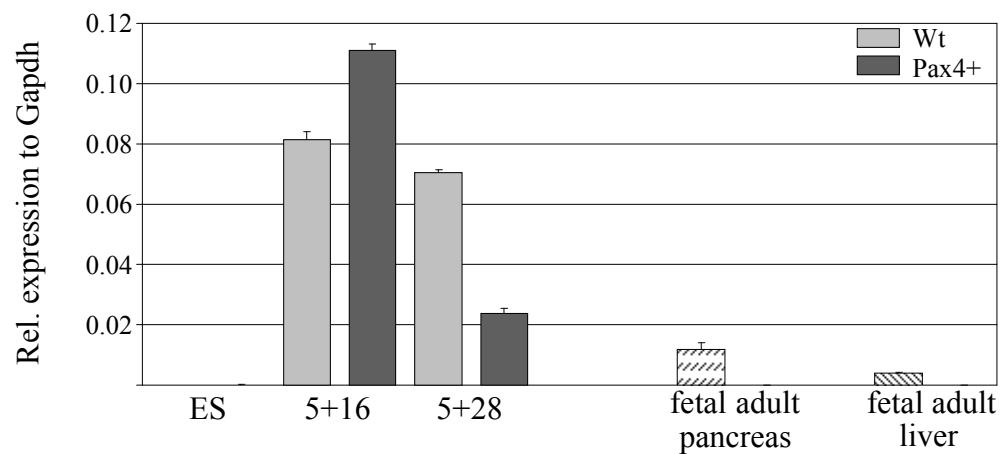


Signaling, growth factors:

Pik3r3

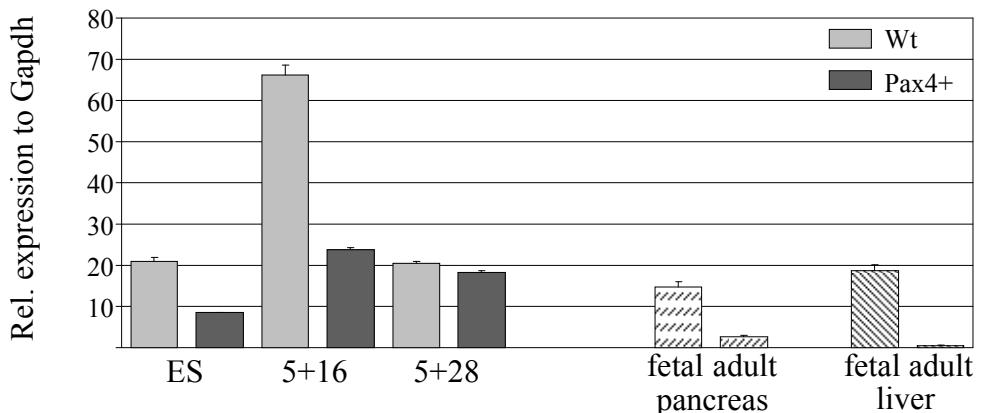


Ptn

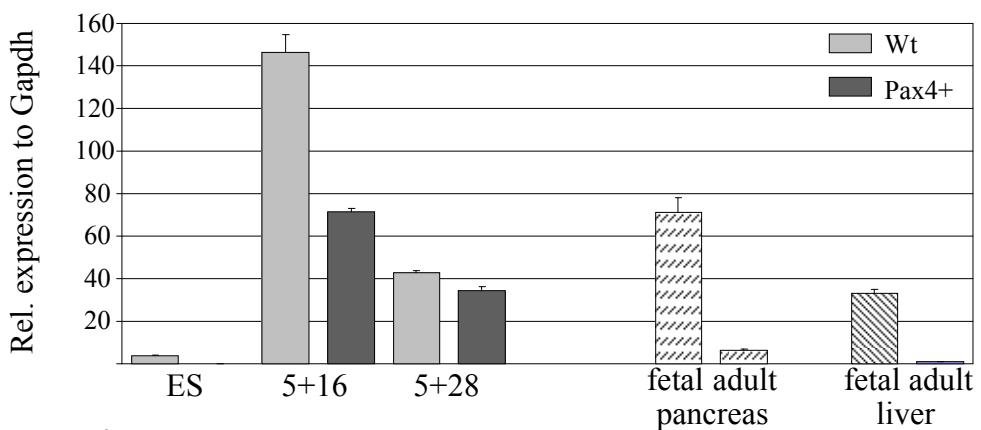


Adhesion, extracellular matrix:

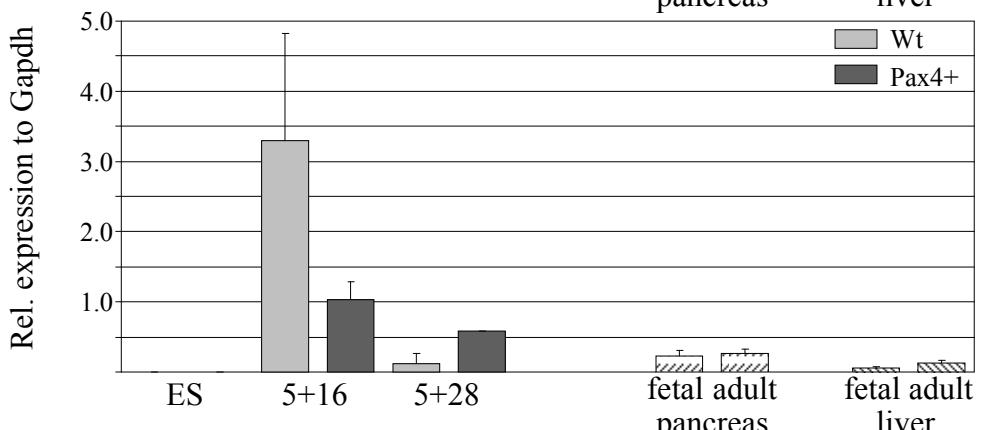
Colla2



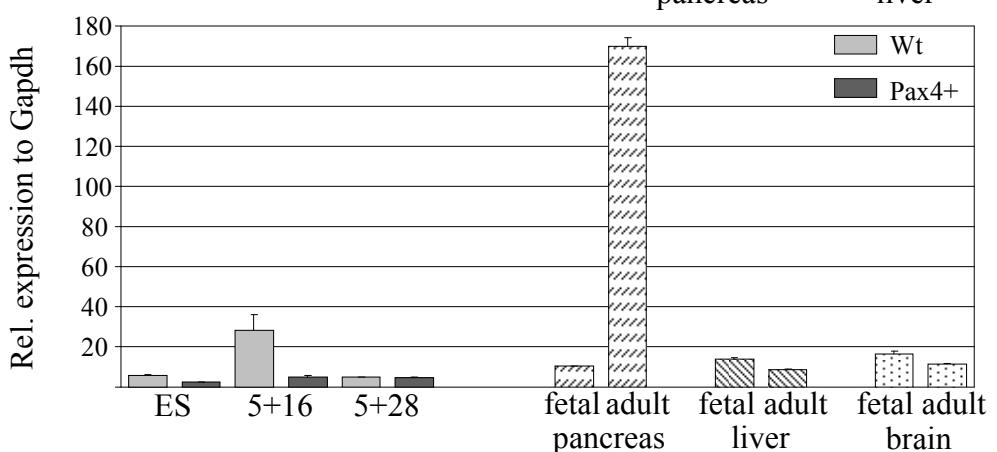
Col3a1



Dcn

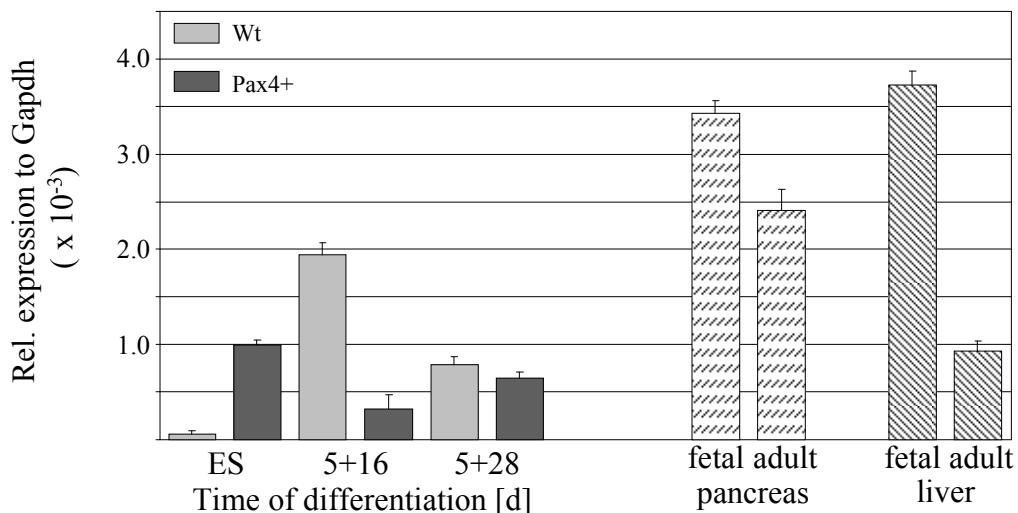


Serpine 2

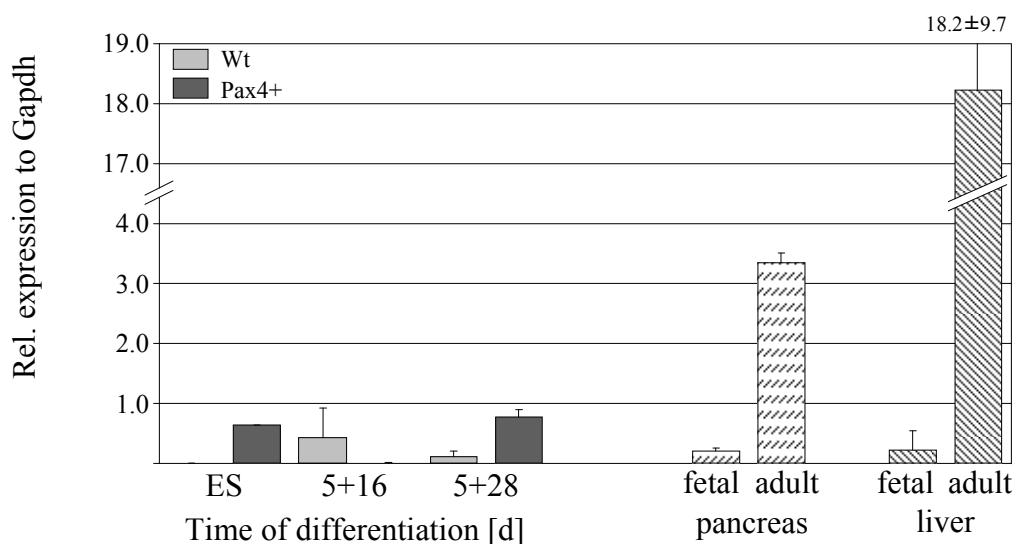


Membrane, transport:

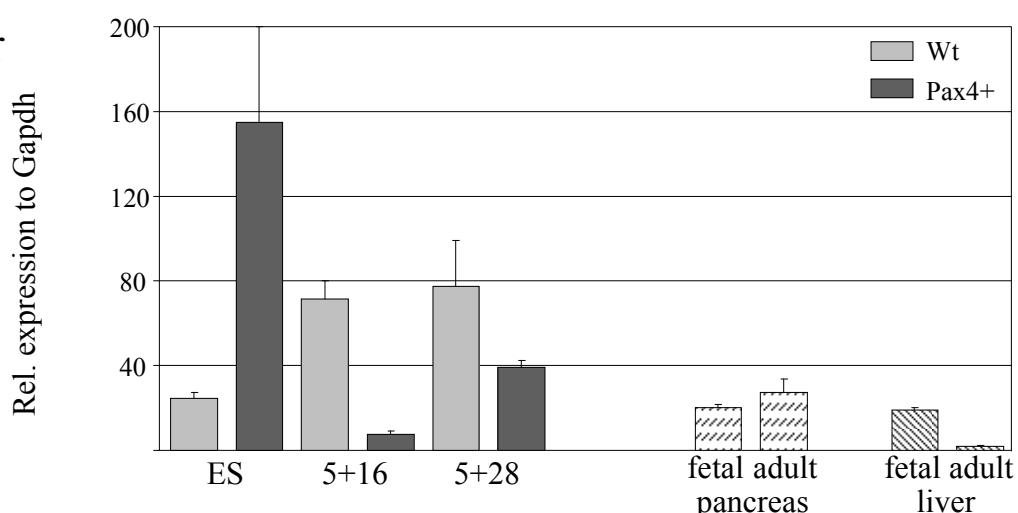
Chgb



Ttr

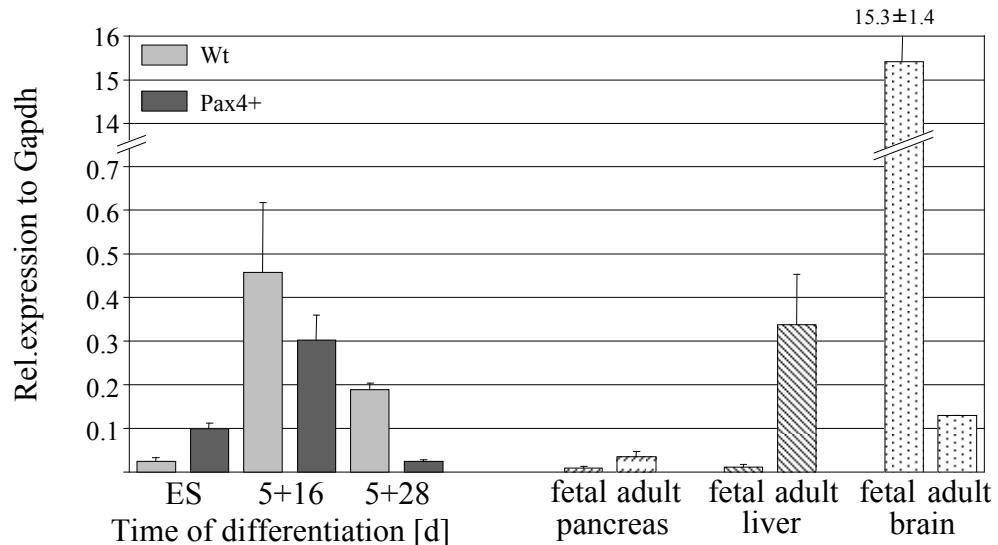


Vldlr

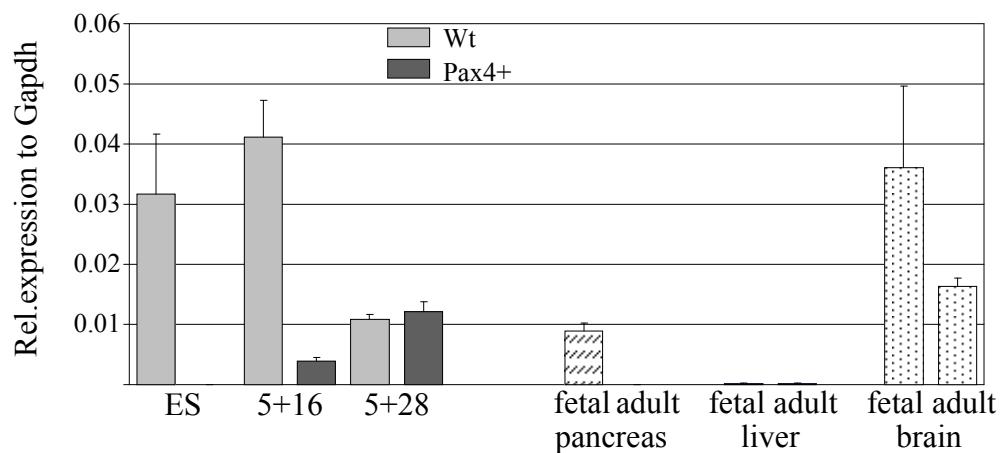


Organogenesis:

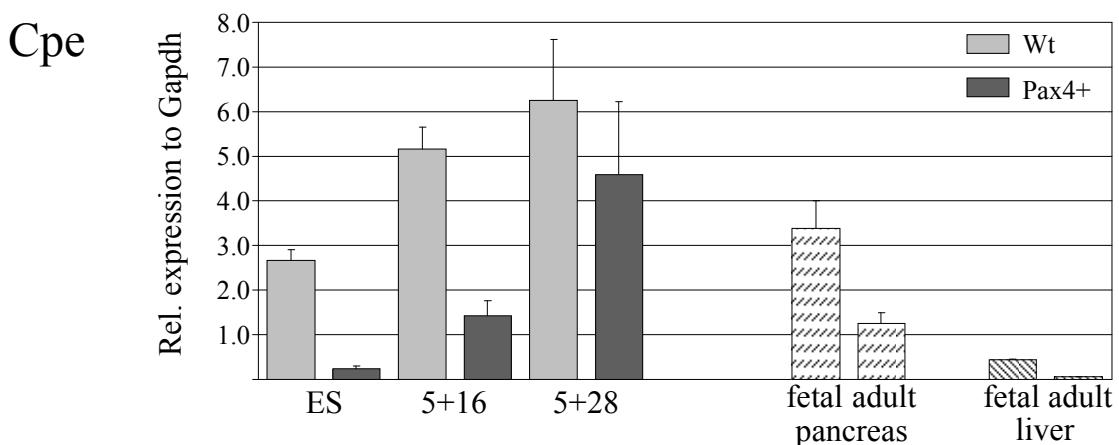
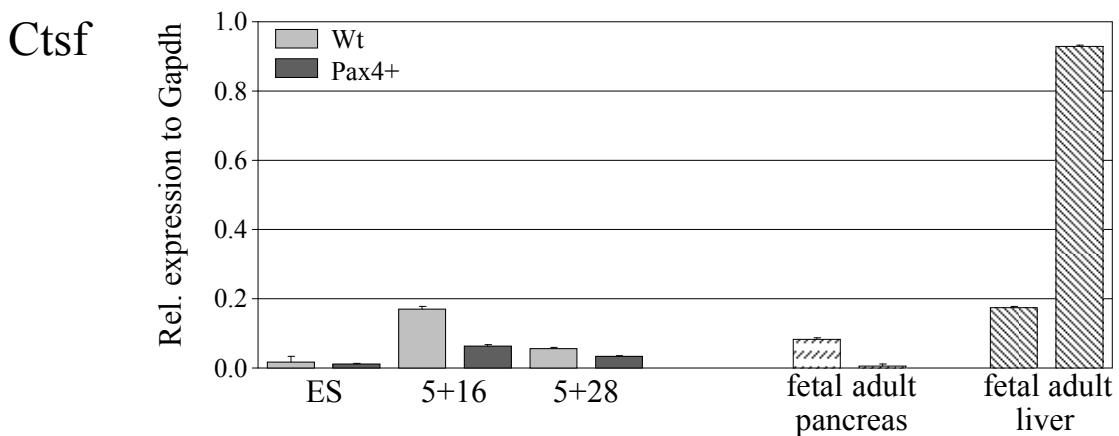
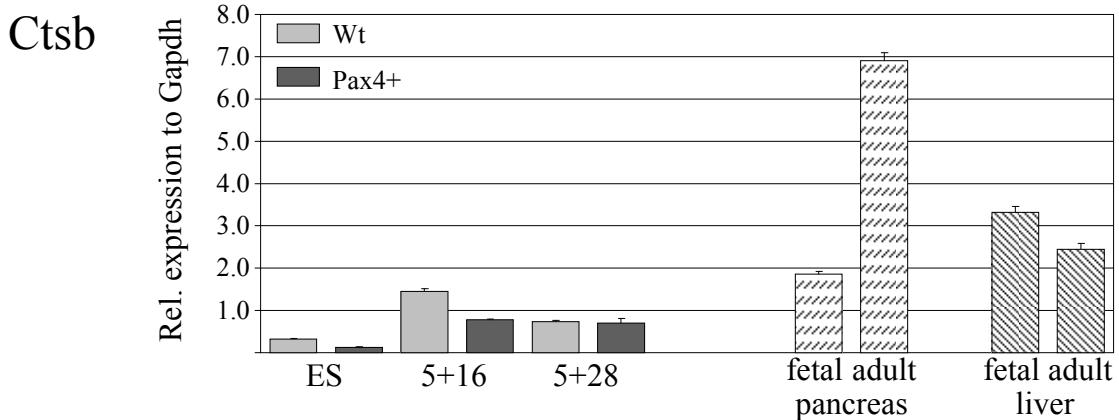
Nnat



Nrp1

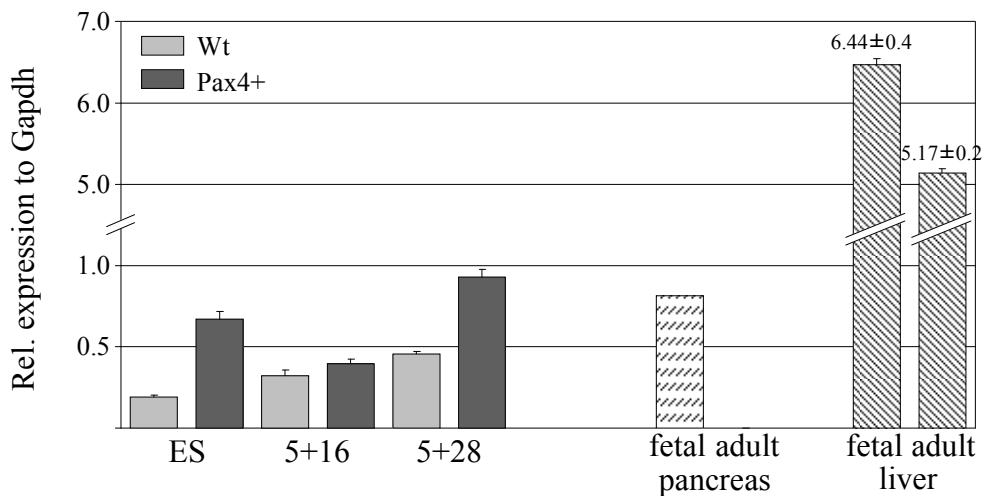


Metabolism, peroxisome:

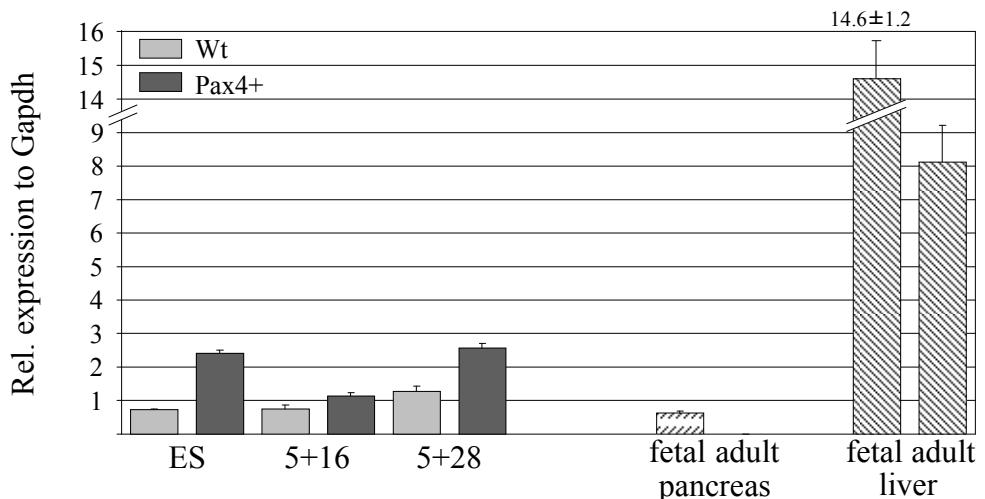


Metabolism, peroxisome:

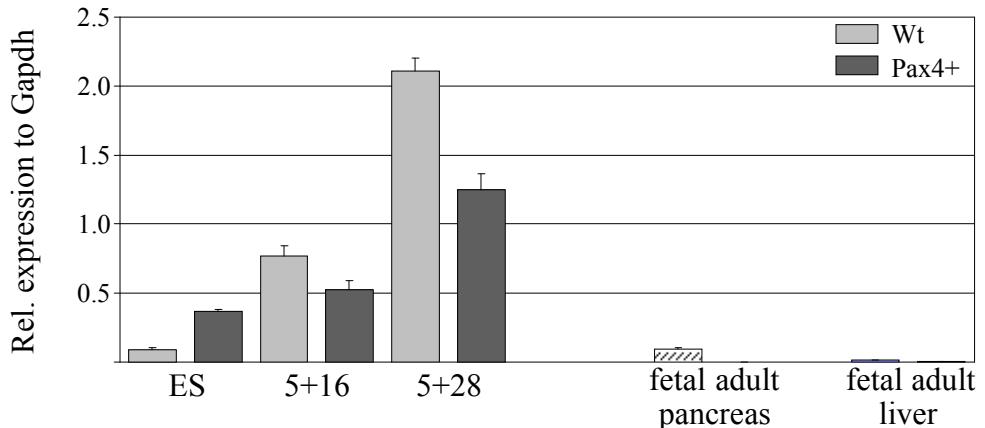
Mt1



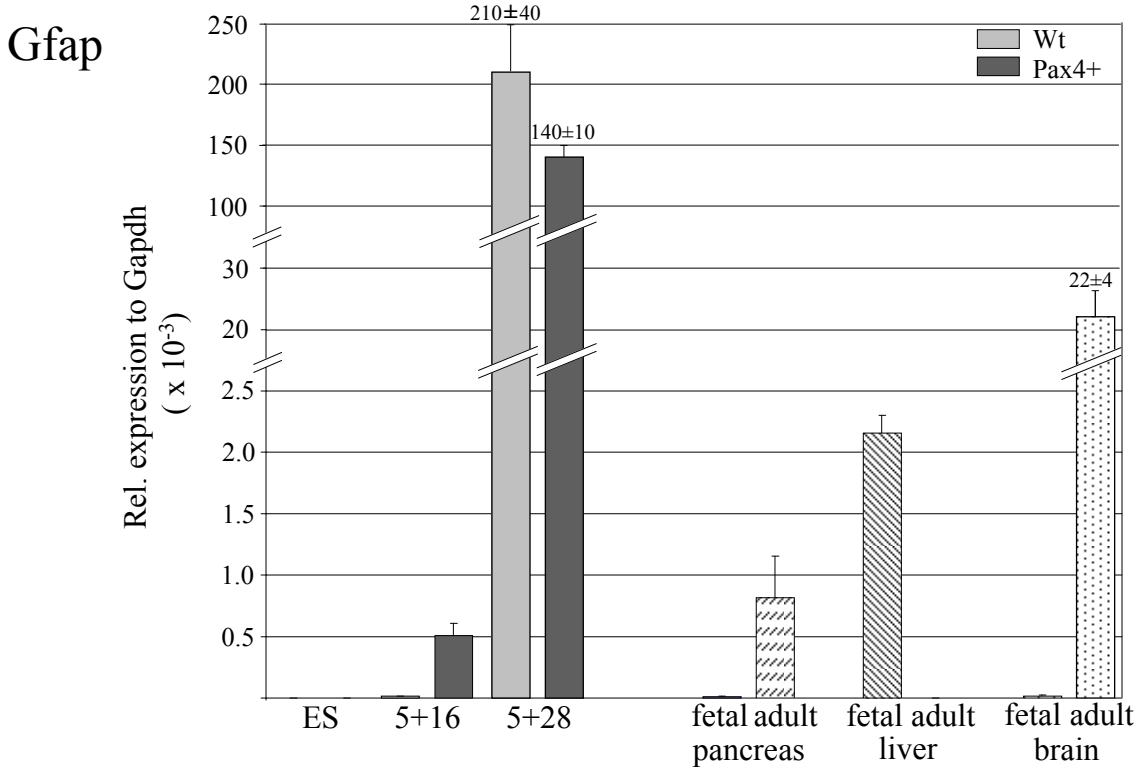
Mt2



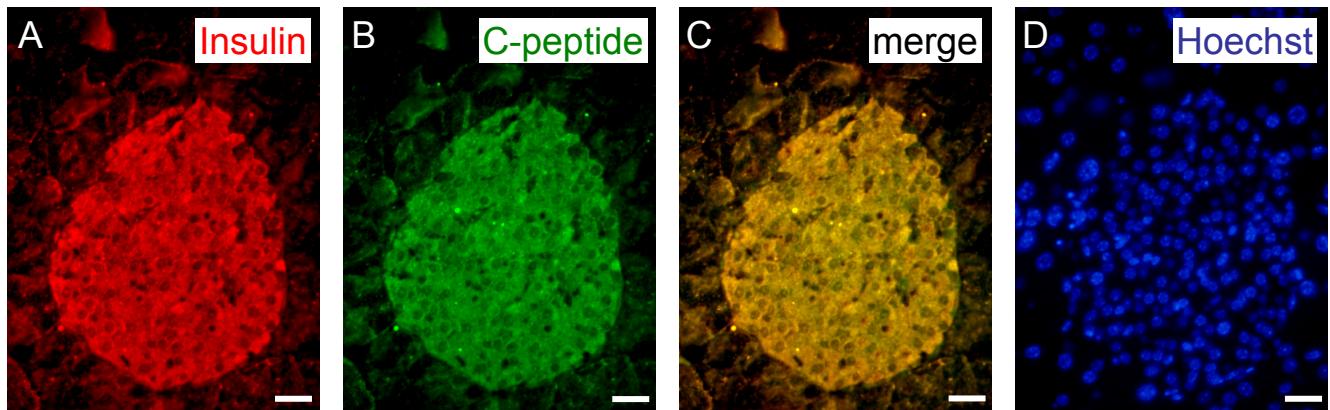
Mt3



Cytoskeleton, intermediate filaments:



Suppl. Figure S4: Immunofluorescence staining of adult (8 weeks) mouse pancreas tissue section as positive control. Significant labeling of islet cells is shown. (A) mouse anti-insulin, (B) sheep anti-C-peptide, (C) merge of A and B, and (D) Hoechst visualizing cell nuclei (Bar= 20 μ m).



Suppl. Table S1: Primer sets employed for real time RT-PCR analysis

Gene	Sense (5'-3')	Antisense (5'-3')
Foxa1	CCA GTG GAT CAT GGA CCT CTT C	CCT TGA CGA AAC AAT CGT TGA A
HoxB2	CGC GTC GCG TCG AGA T	TCA TGC GTC GGT TCT GGA A
Ttr	CGT ACT GGA AGA CAC TTG GCA TT	CGT TGG CTG TGA AAA CCA CAT
ChgB	CCC GCT GGC TGA ACT TTT C	GAG TTC TGA CGG CGG AAG AG
Vldlr	CCA AGA GGA AGT TCC TGT TTA ATT CT	GCC CGA CAA CGG ATC CA
Col3a1	TTG ATG TGC AGC TGG CAT TC	GCC ACT GGC CTG ATC CAT AT
Col1a2	CAC GTG CCG GGA CTT AAG AC	CAT AGT ACA TCC TTG GTT AGG GTC AA
Dcn	TCC AGG TCG TCT ACC TTC ACA AC	ACA GCC GAG TAG GAA GCC TTT
Serpine 2	GAT CGC CCT GCC AAC AGA	TCC AGC TAT CAA TGG TCT TGG TAG T
Igf-1	GAT CTG AGG AGA CTG GAG ATG TAC TG	CTT CTG AGT CTT GGG CAT GTC A
Igf-2	ACG TTC ACT CTG TCT CTC TCA CTA TCT CT	GCG GGC CAG ATA TTG TAC TTT C
Igfbp-7	GGA GGA CGC TGG AGA GTA TGA G	TGG AGG GCA TCA ACC ACT GTA
Irs-1	CGG GCT GAC TCC AAG AAC AA	TCG CTA TCC GCG GCA AT
Pik3r3	TTA TTA ACC ACT ACC ACC ACG AGT CT	TGG AAT CTG GAT ACT GGG TAC GT
Ctsb	TTG TTC CAG ATC CAT TAG AAT ACA GAA	AGC GCT CTC ACT TCC ACT ACC ACA GAG C
Ctsf	ACG GGA TTG CTC ACC CAT T	TGT TAG AGC GGT TGC CAT AGC
Cpe	TGA GAC ACG GAG CGG TAC TG	CGC GCG AGC CAA GCT
Nnat	GGA GCA ACC CTC GAG ATA TGG	TTG ATG GGC TGT TCG ATC TTC
Gfap	CGT TTC TCC TTG TCT CGA ATG A	TCG CCC GTG TCT CCT TGA
Ptn	GAG CAT CAG CCA GCG ATA CC	ACT AGC TGG CTG CCT TTG TTG
Mt-1	CGT GCT GTG CCT GAT GTG A	AAC AGG GTG GAA CTG TAT AGG AAG A
Mt-2	ATA GAC CAT GTA GAA GCC TAG CCT TTT	GGC TTT TAT TGT CAG TTA CAT GCT TTA TAG
Mt-3	GCA GAG GCC GAG AAA TGC	CAG GGA CAC CCA GCA CTA TTT AC
Nrp1	AAG CGC TTC TCG CGA ATT	CCG CCT AAG AAC CAT AAA ATC CT
Gapdh	CCT GCA CCA CCA ACT GCT TA	TCA TGA GCC CTT CCA CCA TG

Suppl. Table S2. List of transcripts five- or more-fold up-regulated in wt and Pax4+ cells (FC: fold change)

S2a: Wt ES cells (0d) vs. committed progenitor cells at 5+16d

Probe ID	FC	Gene Symbol	Gene Title
Transcriptional regulation			
1423477_at	77.0	Zic1	zinc finger protein of the cerebellum 1
1418157_at	48.0	Nr2f1	nuclear receptor subfamily 2, group F, member 1
1450533_a_at	42.9	Plagl1	pleiomorphic adenoma gene-like 1
1450928_at	29.2	ldb4	inhibitor of DNA binding 4
1434102_at	22.5	Nfib	nuclear factor I/B
1421163_a_at	21.3	Nfia	nuclear factor I/A
1450992_a_at	17.6	Meis1	myeloid ecotropic viral integration site 1
1416158_at	17.0	Nr2f2	nuclear receptor subfamily 2, group F, member 2
1444615_x_at	11.7	Cbfa2t1h	CBFA2T1 identified gene homolog (human)
1437556_at	11.7	Zfhx4	zinc finger homeodomain 4
1419583_at	11.1	Cbx4	chromobox homolog 4 (Drosophila Pc class)
1417447_at	10.8	Tcf21	transcription factor 21
1436363_a_at	10.0	Nfix	nuclear factor I/X
1436931_at	9.8	Rfx4	regulatory factor X, 4 (influences HLA class II expression)
1428433_at	9.8	Hipk2	homeodomain interacting protein kinase 2
1447624_s_at	9.7	Stox2	storkhead box 2
1430526_a_at	8.8	Smarca2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
1434856_at	8.4	Ankrd44	ankyrin repeat domain 44
1421072_at	7.7	Irx5	Iroquois related homeobox 5 (Drosophila)
1424029_at	7.5	Tspyl4	TSPY-like 4
1418496_at	7.3	Foxa1	forkhead box A1
1418517_at	7.3	Irx3	Iroquois related homeobox 3 (Drosophila)
1455121_at	7.0	Mlr2	Mblk1-related protein-2
1429138_at	7.0	Npas3	Neuronal PAS domain protein 3
1435078_at	6.5	Tanc2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
1460006_at	6.4	Atbf1	AT motif binding factor 1
1454906_at	6.2	Rarb	retinoic acid receptor, beta
1447864_s_at	5.8	Pogk	pogo transposable element with KRAB domain
1429205_at	5.8	Mllt3	myeloid/lymphoid or mixed lineage-leukemia translocation to 3 homolog (Drosophila)
1416149_at	5.7	Olig1	oligodendrocyte transcription factor 1
1460324_at	5.7	Dnmt3a	DNA methyltransferase 3A
1416390_at	5.6	Chc1l	chromosome condensation 1-like
1437598_at	5.5	Zbtb20	zinc finger and BTB domain containing 20
1425383_a_at	5.2	Pbx1	pre B-cell leukemia transcription factor 1
1438930_s_at	5.1	Mecp2	methyl CpG binding protein 2
1429088_at	5.1	Lbh	limb-bud and heart
1428939_s_at	5.0	Gnaq	guanine nucleotide binding protein, alpha q polypeptide
Signaling, growth factors			
1448254_at	160.9	Ptn	pleiotrophin
1456741_s_at	144.4	Gpm6a	glycoprotein m6a
1437347_at	76.8	Ednrb	endothelin receptor type B
1425575_at	37.9	Epha3	Eph receptor A3
1419248_at	23.2	Rgs2	regulator of G-protein signaling 2
1456379_x_at	20.0	Dner	delta/notch-like EGF-related receptor
1423091_a_at	19.4	Gpm6b	glycoprotein m6b
1452114_s_at	18.6	Igfbp5	insulin-like growth factor binding protein 5

1434413_at	18.0	Igf1	Insulin-like growth factor 1
1436736_x_at	17.3	D0H4S114	DNA segment, human D4S114
1433968_a_at	15.8	Megf9	Multiple EGF-like-domains 9
1459749_s_at	15.5	Fat4	FAT tumor suppressor homolog 4 (Drosophila)
1456609_at	13.2	Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1
1452251_at	11.6	Nbea	neurobeachin
1420858_at	11.4	Pkia	protein kinase inhibitor, alpha
1433434_at	11.2	AW551984	expressed sequence AW551984
1421425_a_at	11.1	Dscr1l1	Down syndrome critical region gene 1-like 1
1434881_s_at	10.7	Kctd12	potassium channel tetramerisation domain containing 12
1448152_at	10.5	Igf2	insulin-like growth factor 2
1448933_at	10.5	Pcdhb17	protocadherin beta 17
1437284_at	10.0	Fzd1	frizzled homolog 1 (Drosophila)
1455893_at	8.4	Rspo2	R-spondin 2 homolog (Xenopus laevis)
1438664_at	7.9	Prkar2b	protein kinase, cAMP dependent regulatory, type II beta
1423756_s_at	7.8	Igfbp4	insulin-like growth factor binding protein 4
1451289_at	7.7	Dcamkl1	Double cortin and calcium/calmodulin-dependent protein kinase-like 1
1435977_at	7.4	Hdgfrp3	hepatoma-derived growth factor, related protein 3
1416846_a_at	6.9	Pdzrn3	PDZ domain containing RING finger 3
1448117_at	6.7	Kitl	kit ligand
1456482_at	6.4	Pik3r3	phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55)
1460187_at	6.3	Sfrp1///2210415 K03Rik	secreted frizzled-related sequence protein 1 /// RIKEN cDNA 2210415K03 gene
1424007_at	6.1	Gdf10	growth differentiation factor 10
1454604_s_at	5.9	Tm4sf12	transmembrane 4 superfamily member 12
1415806_at	5.8	Plat	plasminogen activator, tissue
1452398_at	5.8	Plce1	phospholipase C, epsilon 1
1460419_a_at	5.8	Prkcb1	protein kinase C, beta 1
1436309_at	5.8	Neto2	neuropilin (NRP) and tollloid (TLL)-like 2
1435787_at	5.6	Ppm1l	protein phosphatase 1 (formerly 2C)-like
1419829_a_at	5.4	Gab2	Growth factor receptor bound protein 2-associated protein 2
1450700_at	5.4	Cdc42ep3	CDC42 effector protein (Rho GTPase binding) 3
1453282_at	5.4	Cxadr	coxsackievirus and adenovirus receptor
1435184_at	5.3	Npr3	natriuretic peptide receptor 3
1422504_at	5.3	Glrb	glycine receptor, beta subunit
1437422_at	5.2	Sema5a	sema domain, seven thrombospondin repeats (type 1 and type 1-like) 5A transmembrane domain (TM) and short cytoplasmic domain (semaphorin)
1455970_at	5.1	Pde5a	Phosphodiesterase 5A, cGMP-specific
1426992_at	5.1	Xpr1	xenotropic and polytropic retrovirus receptor 1
1441693_at	5.0	Adamts3	ADAM metallopeptidase with thrombospondin type 1 motif, 3

Adhesion, extracellular matrix

1427884_at	102.5	Col3a1	procollagen, type III, alpha 1
1419663_at	45.2	Ogn	osteoglycin
1449368_at	30.8	Dcn	decorin
1423607_at	29.2	Lum	lumican
1425476_at	22.3	Col4a5	procollagen, type IV, alpha 5
1449154_at	20.7	Col11a1	procollagen, type XI, alpha 1
1454830_at	18.2	Fbn2	fibrillin2
1435486_at	17.8	Pak3	P21 (CDKN1A)-activated kinase 3
1416114_at	16.8	Sparcl1	SPARC-like 1 (mast9, hevin)
1436223_at	14.5	Itgb8	Integrin beta 8
1420798_s_at	13.9	Pcdha8/Pcdha6	protocadherin alpha 8 /// protocadherin alpha 6 /// protocadherin

		/// Pcdha9
1425425_a_at	13.5	Wif1
1435120_at	13.4	Cdh11
1455622_at	13.2	Podxl2
1455280_at	9.5	Frem1
1424010_at	8.9	Mfap4
1434679_at	8.5	Cspg3
1455978_a_at	8.3	Matn2
1437467_at	7.9	Alcam
1416136_at	7.8	Mmp2
1448590_at	7.0	Col6a1
1429310_at	6.4	Flrt3
1418815_at	6.1	Cdh2
1449583_at	6.0	Pcdhb20
1452035_at	5.9	Col4a1
1438532_at	5.7	Hmcn1
1417359_at	5.7	Mfap2
1455494_at	5.6	Col1a1
1436920_at	5.6	Pcdh17
1436678_at	5.3	---
1435637_at	5.3	Itfg1
1424051_at	5.2	Col4a2
		alpha 9 /// protocadherin alpha 5 /// protocadherin alpha 4
		Wnt inhibitory factor 1
		Cadherin 11
		podocalyxin-like 2
		Fras1 related extracellular matrix protein 1
		microfibrillar-associated protein 4
		chondroitin sulfate proteoglycan 3
		matrilin 2
		activated leukocyte cell adhesion molecule
		matrix metalloproteinase 2
		procollagen, type VI, alpha 1
		fibronectin leucine rich transmembrane protein 3
		cadherin 2
		protocadherin beta 20
		procollagen, type IV, alpha 1
		hemicentin 1
		microfibrillar-associated protein 2
		procollagen, type I, alpha 1
		protocadherin 17
		Similar to beta-sarcoglycan
		integrin alpha FG-GAP repeat containing 1
		procollagen, type IV, alpha 2

Membrane, transport

1450779_at	155.4	Fabp7
1455913_x_at	65.9	Ttr
1423608_at	21.8	Itm2a
1415885_at	16.2	Chgb
1436719_at	15.5	Slc35f1
1449264_at	9.2	Syt11
1433509_s_at	9.1	Reep1
1450708_at	8.7	Scg2
1445268_at	8.6	Copg2
1455176_a_at	8.0	Syt11
1419186_a_at	8.0	Siat8d
1434728_at	7.8	Gria3
1438698_at	7.4	Tmem132C
1455169_at	6.7	Rab11fip2
1448734_at	6.4	Cp
1448211_at	5.8	Atp6v0e2
1435396_at	5.7	Stxbp6
1429809_at	5.6	Tmtc2
		fatty acid binding protein 7, brain
		transthyretin (prealbumin)
		integral membrane protein 2A
		chromogranin B
		solute carrier family 35, member F1
		synaptotagmin 11
		receptor accessory protein 1
		secretogranin II
		Coatomer protein complex, subunit gamma 2
		synaptotagmin 11
		sialyltransferase 8 (alpha-2, 8-sialyltransferase) D
		RIKEN cDNA E430013K19 gene
		transmembrane protein 132C
		RAB11 family interacting protein 2 (class I)
		ceruloplasmin
		ATPase, H+ transporting, lysosomal V0 subunit E2
		syntaxin binding protein 6 (amisyn)
		transmembrane and tetratricopeptide repeat containing 2

Organogenesis

1423506_a_at	39.4	Nnat
1449939_s_at	35.8	Dlk1
1455426_at	29.1	MGI:2662731
1456060_at	20.3	Maf
		neuronatin
		delta-like 1 homolog (Drosophila)
		ES neuronal differentiation 3
		avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog
1451154_a_at	20.2	Cugbp2
1457632_s_at	13.8	Mrg1
1420872_at	13.0	Gucy1b3
1448943_at	10.2	Nrp1
1448733_at	9.5	Bmi1
1429178_at	9.0	Odz3
1448201_at	8.7	Sfrp2
		CUG triplet repeat, RNA binding protein 2
		myeloid ectropic viral integration site-related gene 1
		guanylate cyclase 1, soluble, beta 3
		neuropilin 1
		B lymphoma Mo-MLV insertion region 1
		odd Oz/ten-m homolog 3 (Drosophila)
		secreted frizzled-related sequence protein 2

1452913_at	8.4	Pcp4l1	Purkinje cell protein 4-like 1
1424659_at	8.4	Slit2	slit homolog 2 (Drosophila)
1418004_a_at	8.4	Tmem176B	transmembrane protein 176B
1423561_at	8.2	Nell2	nel-like 2 homolog (chicken)
1460359_at	8.0	Armcx3	armadillo repeat containing, X-linked 3
1422818_at	7.7	Nedd9	neural precursor cell expressed, developmentally down-regulated gene 9
1452792_at	6.3	Dzip1	DAZ interacting protein 1
1451691_at	7.4	Ednra	endothelin receptor type A
1456700_x_at	7.2	Marcks	Myristoylated alanine rich protein kinase C substrate
1448416_at	7.2	Mglap	matrix gamma-carboxyglutamate (gla) protein
1420621_a_at	6.4	App	amyloid beta (A4) precursor protein
1433716_x_at	6.1	Gfra2	glial cell line derived neurotrophic factor family receptor alpha 2
1429506_at	5.7	Nkd1	naked cuticle 1 homolog (Drosophila)
1421917_at	5.2	Pdgfra	platelet derived growth factor receptor, alpha polypeptide
1417073_a_at	5.0	Qk	quaking

Metabolism, peroxisome

1415897_a_at	13.8	Mgst1	microsomal glutathione S-transferase 1
1433428_x_at	9.3	Tgm2	transglutaminase 2, C polypeptide
1447903_x_at	9.0	Ap1s2	adaptor-related protein complex 1, sigma 2 subunit
1433551_at	8.1	Al427515	expressed sequence Al427515
1438413_at	7.7	Senp7	SUMO1/sentrin specific protease 7
1415949_at	7.6	Cpe	carboxypeptidase E
1438665_at	7.6	Smpd3	sphingomyelin phosphodiesterase 3, neutral
1450716_at	6.8	Adamts1	a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 1
1437339_s_at	6.4	Pcsk5	Proprotein convertase subtilisin/kexin type 5
1428718_at	6.0	Scrn1	secernin 1
1450105_at	5.4	Adam10	a disintegrin and metalloprotease domain 10
1423294_at	5.0	Mest	mesoderm specific transcript
1421840_at	5.0	Abca1	ATP-binding cassette, sub-family A (ABC1), member 1

Cytoskeleton, intermediate filaments

1418726_a_at	45.1	Tnnt2	troponin T2, cardiac
1437197_at	14.2	Sorbs2	sorbin and SH3 domain containing 2
1425506_at	8.0	Mylk	myosin, light polypeptide kinase
1418209_a_at	7.3	Pfn2	profilin 2
1435435_at	5.0	Ctnnbp2	cortactin binding protein 2

Inflammatory response, cytokine

1448823_at	31.6	Cxcl12	chemokine (C-X-C motif) ligand 12
1417625_s_at	14.1	Cmkor1	chemokine orphan receptor 1
1448710_at	10.7	Cxcr4	chemokine (C-X-C motif) receptor 4
1417574_at	10.0	Cxcl12	chemokine (C-X-C motif) ligand 12

Enzymes, metalloproteinases

1424886_at	10.5	Ptprd	Protein tyrosine phosphatase, receptor type, D
1426621_a_at	9.6	Ppp2r2b	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52) beta isoform
1433855_at	9.5	Abat	4-aminobutyrate aminotransferase
1425452_s_at	5.4	Ptpj/AW125753	protein tyrosine phosphatase, receptor type, J // expressed sequence AW125753

Cell cycle, cell growth

1423100_at	13.9	Fos	FBJ osteosarcoma oncogene
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1448494_at	13.8	Gas1	growth arrest specific 1
1448229_s_at	9.0	Ccnd2	cyclin D2
1455792_x_at	8.0	Ndn	necdin
1449303_at	5.4	Sesn3	sestrin 3
1417649_at	5.4	Cdkn1c	cyclin-dependent kinase inhibitor 1C (P57)
1416406_at	5.2	Pea15	phosphoprotein enriched in astrocytes 15

Others

1436600_at	29.5	Tnrc9	trinucleotide repeat containing 9
1418450_at	28.3	Islr	immunoglobulin superfamily containing leucine-rich repeat
1427320_at	17.5	Copg2as2	coatomer protein complex, subunit gamma 2, antisense 2
1448788_at	13.6	Cd200 /// 2300009N04Rik	Cd200 antigen /// RIKEN cDNA 2300009N04 gene
1451332_at	12.3	Zfp521	zinc finger protein 521
1448194_a_at	8.3	H19	H19 fetal liver mRNA
1423835_at	8.2	Zfp503	zinc finger protein 503
1434639_at	7.3	Kbtbd9	Kelch repeat and BTB (POZ) domain containing 9
1436938_at	7.1	Rbms3	RNA binding motif, single stranded interacting protein
1454822_x_at	7.1	Apcdd1	adenomatosis polyposis coli down-regulated 1
1437152_at	6.3	Rkhd3	ring finger and KH domain containing 3
1454867_at	5.9	LOC433938	Similar to DJ353E16.2 (meningioma (disrupted in balanced translocation) 1)
1456220_at	5.4	Fbxl7	F-box and leucine-rich repeat protein 7
1456063_at	5.3	Orf34	open reading frame 34
1456961_at	5.3	Eny2	enhancer of yellow 2 homolog (Drosophila)
1423672_at	5.0	Ttc30b	tetratricopeptide repeat domain 30B

RIKEN cDNA, unknown ESTs

1436293_x_at	17.6	D1Ert471e	DNA segment, Chr 1, ERATO Doi 471, expressed
1428097_at	14.4	2510009E07Rik	RIKEN cDNA 2510009E07 gene
1439990_at	10.1	---	12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, cl.:D130065P14 product:unknown EST, full insert sequence
1434788_at	9.3	D930050A07Rik	RIKEN cDNA D930050A07 gene
1455249_at	8.1	---	Hypothetical gene supported by AK029001
1436221_at	7.8	D1Ert471e	DNA segment, Chr 1, ERATO Doi 471, expressed
1435468_at	7.7	C76566	expressed sequence C76566
1436570_at	7.7	---	Transcribed locus
1455101_at	7.6	---	Mus musculus, clone IMAGE:2647821, mRNA
1454965_at	7.2	D430039N05Rik	RIKEN cDNA D430039N05 gene
1438989_s_at	7.0	B130021B11Rik	RIKEN cDNA B130021B11 gene
1455160_at	6.6	2610203C20Rik	RIKEN cDNA 2610203C20 gene
1443847_x_at	6.4	---	Transcribed locus
1428647_at	6.2	2310056B04Rik	RIKEN cDNA 2310056B04 gene
1436546_at	6.1	6330549D23Rik	RIKEN cDNA 6330549D23 gene
1453120_at	6.1	D2Bwg1356e	DNA segment, Chr 2, Brigham & Women's Genetics 1356 express.
1426766_at	6.1	6330403K07Rik	RIKEN cDNA 6330403K07 gene
1438531_at	6.1	A730054J21Rik	RIKEN cDNA A730054J21 gene
1435464_at	6.1	5430439C17Rik	RIKEN cDNA 5430439C17 gene
1455686_at	6.0	---	---
1460465_at	5.7	A930038C07Rik	RIKEN cDNA A930038C07 gene
1435087_at	5.6	BC039093	CDNA sequence BC039093
1438007_at	5.5	AI851790	expressed sequence AI851790
1439794_at	5.4	---	Transcribed locus
1433939_at	5.3	A730046J16	hypothetical protein A730046J16
1452762_at	5.3	8430436O14Rik	RIKEN cDNA 8430436O14 gene
1436246_at	5.3	---	Adult male medulla oblongata cDNA, RIKEN full-length enriched sequence library, cl.:6330566A22 product:unclassifiable, full insert

1428541_at	5.1	3321401G04Rik	RIKEN cDNA 3321401G04 gene
1436150_at	5.0	2310028H24Rik	RIKEN cDNA 2310028H24 gene

S2b: Pax4+ ES cells (0d) vs. committed progenitor cells at 5+16d

Probe ID FC Gene Symbol

Gene Title

Transcriptional regulation

1418157_at	52.4	Nr2f1	nuclear receptor subfamily 2. group F. member 1
1436363_a_at	36.2	Nfix	nuclear factor I/X
1416158_at	32.8	Nr2f2	nuclear receptor subfamily 2. group F. member 2
1450533_a_at	30.6	Plagl1	pleiomorphic adenoma gene-like 1
1427680_a_at	27.7	Nfib	nuclear factor I/B
1450992_a_at	20.2	Meis1	myeloid ecotropic viral integration site 1
1429088_at	19.0	Lbh	limb-bud and heart
1427233_at	16.3	Sdccag33	Serologically defined colon cancer antigen 33
1437556_at	16.3	Zfhx4	zinc finger homeodomain 4
1421163_a_at	13.3	Nfia	nuclear factor I/A
1430526_a_at	13.3	Smarca2	SWI/SNF related. matrix associated. actin dependent regulator of chromatin. subfamily a. member 2
1419583_at	12.0	Cbx4	chromobox homolog 4 (Drosophila Pc class)
1428433_at	11.9	Hipk2	homeodomain interacting protein kinase 2
1417447_at	11.0	Tcf21	transcription factor 21
1434856_at	10.3	Ankrd44	ankyrin repeat domain 44
1439774_at	9.4	Prrx1	paired related homeobox 1
1444615_x_at	9.2	Cbfa2t1h	CBFA2T1 identified gene homolog (human)
1449314_at	8.9	Zfpmp2	zinc finger protein. multitype 2
1434298_at	8.2	Zeb2	zinc finger E-box binding homeobox 2
1423259_at	7.9	ldb4	inhibitor of DNA binding 4
1436994_a_at	7.8	Hist1h1c	histone 1. H1c
1421027_a_at	7.7	Mef2c	myocyte enhancer factor 2C
1448926_at	7.4	Hoxa5	homeo box A5
1421072_at	7.3	Irx5	Iroquois related homeobox 5 (Drosophila)
1416614_at	7.2	Cri1	CREBBP/EP300 inhibitory protein 1
1418733_at	7.1	Twist1	twist gene homolog 1 (Drosophila)
1424261_at	7.0	Zfp672	zinc finger protein 672
1429722_at	6.8	Zbtb4	zinc finger and BTB domain containing 4
1424029_at	6.7	Tspyl4	TSPY-like 4
1435078_at	6.6	Tanc2	tetratricopeptide repeat. ankyrin repeat and coiled-coil containing 2
1435866_s_at	6.4	Hist3h2a	histone 3. H2a
1427433_s_at	6.2	Hoxa3	homeo box A3
1449397_at	6.2	Hoxb2	homeo box B2
1418496_at	6.0	Foxa1	forkhead box A1
1447643_x_at	6.0	Snai2 = slug	snail homolog 2 (Drosophila)
1437598_at	5.9	Zbtb20	zinc finger and BTB domain containing 20
1452381_at	5.8	Creb3l2	cAMP responsive element binding protein 3-like 2
1460246_at	5.3	Mecp2	methyl CpG binding protein 2
1421908_a_at	5.3	Tcf12	transcription factor 12

Signaling, growth factors

1448254_at	218.9	Ptn	pleiotrophin
1437347_at	64.9	Ednrb	endothelin receptor type B
1456741_s_at	53.9	Gpm6a	glycoprotein m6a
1452114_s_at	41.8	Igfbp5	insulin-like growth factor binding protein 5
1423091_a_at	38.9	Gpm6b	glycoprotein m6b
1434413_at	32.4	Igf1	insulin-like growth factor (Igf1)
1425575_at	32.2	Epha3	Eph receptor A3

1436659_at	24.1	Dcamkl1	Double cordin and calcium/calmodulin-dependent protein kinase-like 1
1423584_at	20.1	Igfbp7	insulin-like growth factor binding protein 7
1416846_a_at	20.1	Pdzn3	PDZ domain containing RING finger 3
1433968_a_at	19.5	Megf9	Multiple EGF-like-domains 9
1434881_s_at	18.6	Kctd12	potassium channel tetramerisation domain containing 12
1415806_at	16.0	Plat	plasminogen activator. tissue
1436736_x_at	15.5	D0H4S114	DNA segment. human D4S114
1438658_a_at	15.3	Edg3	endothelial differentiation. sphingolipid G-protein-coupled recept. 3
1456609_at	14.8	Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1
1448152_at	14.1	Igf2	insulin-like growth factor 2
1436791_at	13.9	Wnt5a	wingless-related MMTV integration site 5A
1437284_at	13.6	Fzd1	frizzled homolog 1 (Drosophila)
1448259_at	13.4	Fstl1	follistatin-like 1
1418379_s_at	11.9	Gpr124	G protein-coupled receptor 124
1420859_at	11.6	Pkia	protein kinase inhibitor. alpha
1423756_s_at	11.1	Igfbp4	insulin-like growth factor binding protein 4
1426397_at	10.6	Tgfbr2	transforming growth factor. beta receptor II
1420512_at	10.4	Dkk2	dickkopf homolog 2 (Xenopus laevis)
1418049_at	10.1	Ltbp3	latent transforming growth factor beta binding protein 3
1451446_at	9.0	Antxr1	anthrax toxin receptor 1
1448933_at	8.8	Pcdhb17	protocadherin beta 17
1419248_at	8.5	Rgs2	regulator of G-protein signaling 2
1438664_at	8.0	Prkar2b	protein kinase. cAMP dependent regulatory. type II beta
1421045_at	7.6	Mrc2	mannose receptor. C type 2
1418892_at	7.5	Rhoj	ras homolog gene family. member J
1422890_at	7.3	Pcdh18	protocadherin 18
1419922_s_at	7.3	Atrnl1	RIKEN cDNA E430016L07 gene
1421425_a_at	7.2	Dscr1l1	Down syndrome critical region gene 1-like 1
1433434_at	7.1	AW551984	expressed sequence AW551984
1423104_at	6.7	Irs1	insulin receptor substrate 1
1450047_at	6.7	Hs6st2	heparan sulfate 6-O-sulfotransferase 2
1423805_at	6.7	Dab2	disabled homolog 2 (Drosophila)
1422293_a_at	6.6	Kctd1	potassium channel tetramerisation domain containing 1
1452251_at	6.5	Nbea	neurobeachin
1423825_at	6.2	Gpr177	G protein-coupled receptor 177
1449893_a_at	6.1	Lrig1	leucine-rich repeats and immunoglobulin-like domains 1
1420406_at	5.6	Peg12	paternally expressed 12
1437409_s_at	5.5	Gpr126	G protein-coupled receptor 126
1454675_at	5.4	Thra	thyroid hormone receptor alpha
1427191_at	5.4	Npr2	natriuretic peptide receptor 2
1428603_at	5.4	Glcci1	glucocorticoid induced transcript 1
1452014_a_at	5.2	Igf1	insulin-like growth factor 1

Adhesion, extracellular matrix

1427883_a_at	240.1	Col3a1	procollagen. type III. alpha 1
1450757_at	117.0	Cdh11	cadherin 11
1449368_at	70.0	Dcn	decorin
1419663_at	55.3	Ogn	osteoglycin
1423607_at	50.2	Lum	lumican
1423110_at	46.3	Col1a2	procollagen. type I. alpha 2
1423606_at	42.6	Postn	periostin. osteoblast specific factor
1423669_at	39.7	Col1a1	procollagen. type I. alpha 1
1425476_at	35.3	Col4a5	procollagen. type IV. alpha 5
1448162_at	34.4	Vcam1	vascular cell adhesion molecule 1
1448228_at	31.9	Lox	lysyl oxidase

1455978_a_at	29.8	Matn2	matrilin 2
1448590_at	26.7	Col6a1	procollagen. type VI. alpha 1
1449154_at	23.6	Col11a1	procollagen. type XI. alpha 1
1416405_at	22.0	Bgn	biglycan
1416342_at	20.3	Tnc	tenascin C
1416114_at	19.3	Sparcl1	SPARC-like 1 (mast9. hevin)
1454830_at	16.5	Fbn2	fibrillin2
1426865_a_at	15.9	Ncam1	neural cell adhesion molecule 1
1422437_at	15.8	Col5a2	procollagen. type V. alpha 2
1460208_at	14.7	Fbn1	fibrillin 1
1455096_at	14.4	Flrt2	fibronectin leucine rich transmembrane protein 2
1455627_at	14.0	Col8a1	procollagen. type VIII. alpha 1
1437467_at	13.3	Alcam	activated leukocyte cell adhesion molecule
1456214_at	13.1	Pcdh7	protocadherin 7
1452250_a_at	12.3	Col6a2	procollagen. type VI. alpha 2
1422571_at	11.7	Thbs2	thrombospondin 2
1437360_at	11.0	Pcdh19	Protocadherin 19
1456250_x_at	10.6	Tgfb1	transforming growth factor. beta induced
1424010_at	9.8	Mfap4	microfibrillar-associated protein 4
1416740_at	9.4	Col5a1	procollagen. type V. alpha 1
1424131_at	8.6	Col6a3	procollagen. type VI. alpha 3
1424807_at	8.5	Lama4	laminin. alpha 4
1451342_at	8.3	Spon1	spondin 1. (f-spondin) extracellular matrix protein
1416136_at	8.2	Mmp2	matrix metalloproteinase 2
1455688_at	7.9	Ddr2	discoidin domain receptor family. member 2
1424051_at	7.7	Col4a2	procollagen. type IV. alpha 2
1418815_at	7.4	Cdh2	cadherin 2
1452035_at	6.9	Col4a1	procollagen. type IV. alpha 1
1431375_s_at	6.2	Parva	parvin. alpha
1433586_at	6.1	Rgmb	RGM domain family. member B
1416666_at	5.8	Serpine2	serine (or cysteine) proteinase inhibitor. clade E. member 2
1437417_s_at	5.5	Gpc6	glypican 6
1417359_at	5.4	Mfap2	microfibrillar-associated protein 2
1436920_at	5.3	Pcdh17	protocadherin 17
1456392_at	5.1	Negr1	neuronal growth regulator 1

Membrane, transport

1450779_at	115.0	Fabp7	fatty acid binding protein 7. brain
1417900_a_at	10.7	Vldlr	very low density lipoprotein receptor
1416612_at	10.5	Cyp1b1	cytochrome P450. family 1. subfamily b. polypeptide 1
1416803_at	8.0	Fkbp7	FK506 binding protein 7
1452357_at	6.4	Gp1bb /// Sept5	glycoprotein Ib. beta polypeptide /// septin 5
1445268_at	6.2	Copg2	Coatomer protein complex. subunit gamma 2
1436566_at	5.9	Rab40b	Rab40b. member RAS oncogene family
1433481_at	5.3	Fkbp14	FK506 binding protein 14
1429809_at	5.2	Tmtc2	transmembrane and tetratricopeptide repeat containing 2
1415986_at	5.1	Clcn4-2	chloride channel 4-2
1416343_a_at	5.0	Lamp2	lysosomal membrane glycoprotein 2
1415961_at	5.0	Itm2c	integral membrane protein 2C
1448972_at	5.0	Gria1	glutamate receptor. ionotropic. AMPA1 (alpha 1)

Organogenesis

1448943_at	35.9	Nrp1	neuropilin 1
1448416_at	26.4	Mglap	matrix gamma-carboxyglutamate (gla) protein
1441137_at	14.9	Bicc1	Bicaudal C homolog 1 (Drosophila)
1417129_a_at	13.5	Mrg1	myeloid ecotropic viral integration site-related gene 1

1418004_a_at	17.8	Tmem176B	transmembrane protein 176B
1456060_at	11.5	Maf	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog
1424659_at	11.3	Slit2	slit homolog 2 (Drosophila)
1425603_at	10.9	Tmem176A	transmembrane protein 176A
1451691_at	9.9	Ednra	endothelin receptor type A
1420621_a_at	9.8	App	amyloid beta (A4) precursor protein
1448733_at	9.3	Bmi1	B lymphoma Mo-MLV insertion region 1
1454674_at	8.9	Fez1	fasciculation and elongation protein zeta 1 (zygin I)
1422818_at	8.8	Nedd9	neural precursor cell expressed. developmentally down-regulated gene 9
1423561_at	8.7	Nell2	nel-like 2 homolog (chicken)
1460359_at	8.5	Armcx3	armadillo repeat containing. X-linked 3
1415973_at	7.7	Marcks	Myristoylated alanine rich protein kinase C substrate
1454974_at	7.5	Ntn1	netrin 1
1454613_at	7.5	Dpysl3	Dihydropyrimidinase-like 3
1448475_at	7.4	Olfml3	olfactomedin-like 3
1451154_a_at	7.1	Cugbp2	CUG triplet repeat.RNA binding protein 2
1417073_a_at	7.0	Qk	quaking
1436970_a_at	6.9	Pdgfrb	platelet derived growth factor receptor. beta polypeptide
1434106_at	6.6	Epm2aip1	EPM2A (laforin) interacting protein 1
1428393_at	6.0	Nrn1	neuritin 1
1417847_at	5.9	Ulk2	Unc-51 like kinase 2 (C. elegans)
1455812_x_at	5.6	Slitl2	Slit-like 2 (Drosophila)
1426869_at	5.5	Boc	biregional cell adhesion molecule-related/down-regulated by oncogenes (Cdon) binding protein
1426680_at	5.3	Sepn1	selenoprotein N. 1
1418285_at	5.2	Efnb1	ephrin B1
1453622_s_at	5.2	Mllt3	myeloid/lymphoid or mixed lineage-leukemia translocation to 3 homolog (Drosophila)
1436959_x_at	5.0	Nelf	nasal embryonic LHRH factor

Metabolism, peroxisome

1415897_a_at	10.5	Mgst1	microsomal glutathione S-transferase 1
1415949_at	10.0	Cpe	carboxypeptidase E
1433428_x_at	9.1	Tgm2	transglutaminase 2. C polypeptide
1447903_x_at	8.0	Ap1s2	adaptor-related protein complex 1. sigma 2 subunit
1450843_a_at	7.5	Serph1	serine (or cysteine) proteinase inhibitor. clade H. member 1
1417492_at	7.2	Ctsb	cathepsin B
1438413_at	7.0	Senp7	SUMO1/sentrin specific protease 7
1450716_at	6.4	Adamts1	a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif. 1
1454997_at	6.0	Msrb3	methionine sulfoxide reductase B3
1437568_at	5.7	Mmp16	matrix metalloproteinase 16
1428791_at	5.6	Ube2h	ubiquitin-conjugating enzyme E2H
1433501_at	5.1	Ctso	cathepsin O

Cytoskeleton, intermediate filaments

1418726_a_at	26.1	Tnnt2	troponin T2. cardiac
1415927_at	15.0	Actc1	actin. alpha. cardiac
1425506_at	10.8	Mylk	myosin. light polypeptide kinase
1437197_at	9.0	Sorbs2	sorbin and SH3 domain containing 2
1418209_a_at	8.5	Pfn2	profilin 2
1440990_at	6.3	Kif26b	kinesin family member 26B

Inflammatory response, cytokine

1448823_at	22.2	Cxcl12	chemokine (C-X-C motif) ligand 12
1417625_s_at	9.0	Cmkor1	chemokine orphan receptor 1
Enzymes, metalloproteinases			
1449335_at	12.3	Timp3	tissue inhibitor of metalloproteinase 3
1454677_at	12.1	Timp2	tissue inhibitor of metalloproteinase 2
1416498_at	5.1	Ppic	peptidylprolyl isomerase C
1426621_a_at	5.0	Ppp2r2b	protein phosphatase 2 (formerly 2A). regulatory subunit B (PR 52). beta isoform
Cell cycle, cell growth			
1416855_at	28.9	Gas1	growth arrest specific 1
1434745_at	21.3	Ccnd2	cyclin D2
1448233_at	8.4	Prnp	prion protein
1455792_x_at	7.8	Ndn	necdin
1437101_at	6.5	Lats2	Large tumor suppressor 2
1417399_at	6.4	Gas6	growth arrest specific 6
1448655_at	6.0	Lrp1	low density lipoprotein receptor-related protein 1
1416406_at	5.0	Pea15	phosphoprotein enriched in astrocytes 15
Others			
1418450_at	44.2	Islr	immunoglobulin superfamily containing leucine-rich repeat
1448788_at	16.5	Cd200 /// 2300009N04Rik	Cd200 antigen /// RIKEN cDNA 2300009N04 gene
1436938_at	14.9	Rbms3	RNA binding motif, single stranded interacting protein
1424186_at	13.5	Ccdc80	coiled-coil domain containing 80
1451332_at	12.8	Zfp521	zinc finger protein 521
1423835_at	11.2	Zfp503	zinc finger protein 503
1428187_at	10.3	Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
1433776_at	9.9	Lhfp	lipoma HMGIC fusion partner
1449070_x_at	9.7	Apcdd1	adenomatosis polyposis coli down-regulated 1
1454867_at	7.5	LOC433938	Similar to dj353E16.2 (meningioma (disrupted in balanced translocation) 1)
1454630_at	6.5	Samd14	sterile alpha motif domain containing 14
1434825_at	6.2	Zfp469	Zinc finger protein 469
1426306_a_at	6.2	Maged2	melanoma antigen, family D, 2
1422064_a_at	5.5	Zbtb20	zinc finger and BTB domain containing 20
1424970_at	5.2	Purg	purine-rich element binding protein G
1421871_at	5.1	Sh3bgrl	SH3-binding domain glutamic acid-rich protein like
1416401_at	5.1	Kai1	kangai 1 (suppression of tumorigenicity 6, prostate)
1433812_at	5.0	Lix1l	Lix1-like
1419584_at	5.0	Ttc28	tetratricopeptide repeat domain 28
1423672_at	5.0	Ttc30b	tetratricopeptide repeat domain 30B
RIKEN cDNA, unknown ESTs			
1427932_s_at	34.1	1200016E24Rik/// 1200015M12Rik/// 1200003I10Rik	RIKEN cDNA 1200016E24 gene /// RIKEN cDNA 1200015M12 gene /// RIKEN cDNA 1200003I10 gene
1435137_s_at	32.7	1200015M12Rik	RIKEN cDNA 1200015M12 gene
1455160_at	19.1	2610203C20Rik	RIKEN cDNA 2610203C20 gene
1436223_at	17.1	---	0 day neonate kidney cDNA. RIKEN full-length enriched library. clone:D630049N15 product:unknown EST, full insert sequence
1436546_at	12.9	6330549D23Rik	RIKEN cDNA 6330549D23 gene
1438531_at	12.9	A730054J21Rik	RIKEN cDNA A730054J21 gene
1428097_at	10.8	2510009E07Rik	RIKEN cDNA 2510009E07 gene

1428861_at	10.7	4631422O05Rik	RIKEN cDNA 4631422O05 gene
1456130_at	10.5	---	CDNA clone IMAGE:6741091
1452762_at	9.1	8430436O14Rik	RIKEN cDNA 8430436O14 gene
1453266_at	8.1	9230111I22Rik	RIKEN cDNA 9230111I22 gene
1455249_at	7.7	---	Hypothetical gene supported by AK029001
1428432_at	7.6	2310047A01Rik	RIKEN cDNA 2310047A01 gene
1451127_at	7.5	AW146242	expressed sequence AW146242
1435087_at	7.1	BC039093	CDNA sequence BC039093
1427108_at	7.0	9530068E07Rik	RIKEN cDNA 9530068E07 gene
1426766_at	6.9	6330403K07Rik	RIKEN cDNA 6330403K07 gene
1428541_at	6.8	3321401G04Rik	RIKEN cDNA 3321401G04 gene
1439990_at	6.7	---	12 days embryo spinal ganglion cDNA, RIKEN full-length enriched Library, clone:D130065P14 product:unknown EST, full insert seq. expressed sequence C76566
1435468_at	6.6	C76566	RIKEN cDNA 2310016C16 gene
1424099_at	6.3	2310016C16Rik	RIKEN cDNA 9130005N14 gene
1448648_at	6.2	9130005N14Rik	Transcribed locus
1443847_x_at	5.8	---	RIKEN cDNA 2610008E11 gene
1429281_at	5.5	2610008E11Rik	RIKEN cDNA 2310028H24 gene
1436150_at	5.2	2310028H24Rik	RIKEN cDNA 2700089E24 gene
1453208_at	5.2	2700089E24Rik	RIKEN cDNA 2310056B04 gene
1428647_at	5.1	2310056B04Rik	Transcribed locus
1434423_at	5.1	---	RIKEN cDNA 2700081O15 gene
1437291_at	5.1	2700081O15Rik	Transcribed locus
1436570_at	5.0	---	RIKEN cDNA 1700023M03 gene
1429065_at	5.0	1700023M03Rik	RIKEN cDNA 4921524J06 gene
1439496_at	5.0	4921524J06Rik	---
1428103_at	5.0	---	

Suppl. Table S3. List of transcripts two- or more-fold up-regulated in wt ES cells (dd) vs. multilineage progenitor cells at 5+sd (FC; fold change)

Probe ID	Gene symbol	Gene title	FC wt-ESC (dd) vs. wt-5+sd/gobp	gocc	perf	unigene	refseq	refseq	test_wt-ESC (dd) vs. wt-5+signal_wt-ESC (dd) signal_wt-5+sd	
1440311_at	Cd331	procollagen, type III, alpha 1	75.6	6817 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // structural molecule actm.249555	NP_034600.NM_009930	NP_030939.NM_0009793	5.0e-003	5.0e-003	41.6	
1427884_at	Cd331	procollagen, type III, alpha 1	75.6	6817 // phosphate transport / <i>in578</i> // extracellular matrix / 5159 // structural molecule actm.249555	NP_034600.NM_009930	NP_034600.NM_009930	1.0001e-007		50.4	
1419726_at	Tnnit2	troponin T2, cardiac	67.4	6936 // muscle contraction / <i>in581</i> // troponin complex / 5200 // structural constituents	Mm.247470	NP_03749.NM_011619	4.1090e-006		18.7	
1437347_at	Ednrb	endothelin receptor type B	59.7	7155 // neural crest migrat.6515 // extracellular space / 1584 // rhodopsin-like receptor.295235	NP_031930.NM_007909	NP_031930.NM_007909	4.7024e-005		20.3	
1426872_at	Gucy1b3	guanylate cyclase 1, soluble, beta 3	42.7	6182 // cGMP biosynthesis / <i>in577</i> // cytoplasm / <i>inrefcr435</i> // guanylate cyclase actm.9444	NP_030947.NM_017469	NP_030947.NM_017469	9.0054e-005		21.0	
1449938_s_at	Ddit1	death-like 1 homolog (Drosophila)	36.8	74 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // calcium ion binding / Mm.150769	NP_033634.NM_009538	NP_033634.NM_009538	3.2120e-006		24.0	
1449939_s_at	Ddit1	death-like 1 homolog (Drosophila)	38.2	5615 // extracellular space / 1587 // nucleic acid binding / Mm.150769	NP_033634.NM_009538	NP_033634.NM_009538	3.9459e-006		399.1	
1436041_at	--	--	30.9	5615 // extracellular space / 1587 // calcium ion binding / Mm.150769	NP_033634.NM_009538	NP_033634.NM_009538	3.9459e-006		1522.7	
1453351_at	Riken_cDNA_943010M06R8	RIKEN cDNA_943010M06R8 gene	27.9	5615 // extracellular space / 1587 // calcium ion binding / Mm.150769	NP_033634.NM_009538	NP_033634.NM_009538	3.9459e-006		399.1	
1422937_at	Lam	laminin	27.8	5615 // extracellular space / 1587 // calcium ion binding / Mm.150769	NP_033634.NM_009538	NP_033634.NM_009538	3.9459e-006		1522.7	
1419157_at	Ncr1	nuclear receptor subfamily 2, group F, member 1	26.2	74 // regulation of cell cycle / <i>in534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034281.NM_011051	NP_030074475	30.0		786.2	
1424967_x_at	Tnnit2	troponin T2, cardiac	25.4	5615 // extracellular space / 1587 // endoplasmic reticul.	Mm.3086	NP_705018.NM_175309	0.00074307		1151.5	
1454881_s_at	Upkb3	uroplakin 3B	25.0	5783 // endoplasmic reticul.	Mm.117005	NP_18889	1.41722e-006		1745.7	
1422938_at	Nnat	neuromodulin	23.8	5725 // development / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034281.NM_011051	NP_030074475	26.6		742.3	
1425787_at	Cebpd	Ets-binding A3	22.0	6468 // protein amino acid phos.5615 // extracellular region / 5159 // structural molecule actm.249555	NP_034900.NM_009825	NP_034900.NM_009825	3.000275632		33.2	
1448823_at	Cxcl12	chemokine (C-C motif) ligand 12	21.0	6935 // chemotaxis / <i>inrefcr576</i> // extracellular space / 5125 // cytokine activity / Mm.303231	NP_030124.NM_0010124	NP_037404.NM_0010124	1.74034e-007		59.8	
1422422_at	Astb4	ankyrin repeat and SOCS box-containing protein 4	20.5	6355 // regulation of transcription -	NP_03737 // DNA binding / <i>inrefcr1530</i>	NP_07535.NM_023040	0.000115518		22.2	
1417417_at	Cxcl12	chemokine (C-C motif) ligand 12	20.3	6935 // chemotaxis / <i>inrefcr576</i> // extracellular region / 5125 // cytokine activity / Mm.303231	NP_030124.NM_0010124	NP_03751.NM_0010124	1.35751e-005		970.7	
1425028_at	Msx1	ES homeobox repressor	19.9	6935 // regulation of transcription -	NP_03737 // DNA binding / <i>inrefcr1530</i>	NP_07535.NM_023040	0.000115518		20.0	
1433910_at	Astb4	ankyrin repeat and SOCS box-containing protein 4	19.1	6355 // regulation of transcription -	NP_03737 // DNA binding / <i>inrefcr1530</i>	NP_07535.NM_023040	0.000115518		31.3	
1424890_at	Bnc1	basinulin 1	18.8	6355 // transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // nucleic acid binding / Mm.24802	NP_034882.NM_007562	NP_089609.e-005	57.2		1075.1	
1436008_at	Tnnit2a	integral membrane protein 2A	18.7	16021 // integral to membra	Mm.193	NP_032452.NM_008049	4.74897e-007		466.6	
1422939_at	Tnnit2	integral membrane protein 2, cardiac	18.0	5615 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034270.NM_010923	NP_030074475	2.63884e-006		808.5	
1425787_at	Cnkrl1	cheerless orphan receptor 1	17.9	5783 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034900.NM_009825	NP_034900.NM_009825	3.1204e-008		808.5	
1418488_at	Vnn1	vanni 1	17.7	6807 // nitrogen compound met5615 // extracellular space / 16787 // hydrophobic activity / Mm.247470	NP_035924.NM_011707	NP_030074475	37.1		655.6	
1448943_at	Vnn1	vanni 1	16.8	1525 // angiogenesis / inferred 5886 // plasma membrane / 4872 // receptor activity / <i>inrefm.27145</i>	NP_032633.NM_008737	NP_031327.NM_008735	3.13327e-005		340.3	
1425464_at	Gata6	GATA6	16.6	6300 // cell adhesion / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034282.NM_007258	NP_030074475	1.6650e-006		116.5	
1417417_at	Cxcl12	chemokine (C-C motif) ligand 12	16.6	1525 // eye morphogenesis / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034282.NM_007258	NP_030074475	5.6200e-009		160.2	
1448206_at	Myh6	myosin, heavy polypeptide 6, cardiac muscle, alpha	16.1	6941 // striated muscle contract.5656 // cytoskeleton / <i>inrefcr3677</i> // motor activity / Mm.290003	NP_034966.NM_010856	NP_030074475	0.000187221		55.7	
1425463_at	Gata6	GATA binding protein 6	16.1	3635 // transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034882.NM_01258	NP_030074475	6.83412e-008		73.1	
1450992_at	Mes1	myeloid, ecotropic viral integration site 1	15.8	6355 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034882.NM_01258	NP_030074475	3.03457e-007		743.4	
1424808_at	Tnnit2	integral membrane protein 2A	15.7	5615 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034270.NM_010923	NP_030074475	2.0093e-006		200.9	
1417625_at	Cnkrl1	cheerless orphan receptor 1	15.4	6355 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034900.NM_009825	NP_034900.NM_009825	9.49978e-009		62.2	
1426208_at	Xanth	pleiomorphic viral integration site-related gene 1	15.3	5783 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034900.NM_009825	NP_034900.NM_009825	2.62984e-005		124.4	
1425787_at	Coq8at	procollagen, type IX, alpha 1	15.2	6817 // phosphate transport / <i>in578</i> // extracellular matrix / 5159 // structural molecule actm.249555	NP_031766.NM_007740	NP_030074475	5.92095e-005		72.1	
1425476_at	Coq4at	Fist 1	15.0	5615 // cell adhesion / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_031762.NM_007740	NP_030074475	1.0650e-005		152.5	
1425477_at	Fist1	Fist 1	14.9	7109 // regulation of adhesion / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_031762.NM_007740	NP_030074475	1.20335e-006		192.5	
1418054_at	Npt1	neurotrophin 1	14.2	1525 // angiogenesis / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_032633.NM_008737	NP_030074475	1.10932e-006		233.0	
1422580_at	Miy4	myosin, light polypeptide 4	14.2	7010 // cytoskeleton organization / 5656 // cytoskeleton / <i>inrefcr3747</i> // motor activity / Mm.290003	NP_034966.NM_010856	NP_030074475	3.02843e-005		331.8	
1450708_at	Ntrk1	NIK receptor kinase	14.0	4648 // protein amino acid phos.5615 // extracellular matrix / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034882.NM_01258	NP_030074475	4.84 // protein kinase activity / Mm.290003		684.5	
1417447_at	Cxcl12	Tdt21	transcription factor 21	13.6	7010 // cytoskeleton organization / 5656 // cytoskeleton / <i>inrefcr3747</i> // motor activity / Mm.290003	NP_034966.NM_010856	NP_030074475	2.0360e-006		160.1
1437727_at	Tgm2	transforming growth factor, basic	13.6	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	2.03605e-005		205.1	
1425141_at	Sepp1	sepp1	13.6	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	3.03655e-005		347.5	
1425114_at	Igfbp3	insulin-like growth factor binding protein 3	13.2	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	1.34194e-005		54.5	
1422006_at	Tgm2	transforming growth factor, basic	12.9	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	1.83273e-005		534.5	
1419761_at	Indc1	inducible nitric oxide synthase 1	12.4	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	1.83273e-005		220.0	
1419517_at	Inos	inosine triphosphate cyclohydrolase I	12.2	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	8.86e-006		103.6	
1425777_at	Tgm2	transforming growth factor, basic	12.0	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033911.NM_010181	NP_030074475	1.00337177		100.6	
1448494_at	Gas1	growth arrest specific 1	11.5	6049 // proteolysis and peptidol-573 // extracellular space / 3101 // protein binding / <i>inrefm.2701</i>	NP_033399.NM_009937	NP_030074475	3.23977e-005		104.6	
1449154_at	Cox1at1	procollagen, type XI, alpha 1	10.7	7049 // cell cycle / <i>inrefcr3677</i> // membrane / 16020 // membrane	NP_032112.NM_008080	NP_030074475	4.34986e-005		123.0	
1422100_at	Mmp12	matrix metalloproteinase 12	10.6	1502 // cartilage condensation / <i>in578</i> // extracellular matrix / 5159 // protein binding / <i>inrefm.209175</i>	NP_031755.NM_007729	NP_030074475	2.62855e-005		38.5	
1425183_at	Spoc1	spoc1	10.4	7164 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_033227.NM_009657	NP_030074475	4.07055e-005		40.6	
1425048_at	Gcm1	complement component 1, subcomponent	10.3	6892 // defense response / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034947.NM_010740	NP_030074475	1.07631e-005		170.1	
1417484_at	Cxcl12	chemokine (C-X-C motif) ligand 12 (Drosophila)	9.4	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034947.NM_010740	NP_030074475	2.91545e-005		28.9	
1422340_at	Tgm2	transforming growth factor, basic induced	9.3	5615 // regulation of transcription / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_034947.NM_010740	NP_030074475	2.91545e-005		29.3	
1422221_at	Hand2	heart and neural crest derivatives expressed transcript 2	7.7	5615 // extracellular space / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034270.NM_010923	NP_030074475	1.70744e-005		70.7	
1448745_at	Tnnit2	troponin T2, cardiac	7.7	5615 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034270.NM_010923	NP_030074475	1.70744e-005		70.7	
1424133_at	6503041B15R0	RIKEN cDNA_6503041B15 gene	8.0	5615 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034270.NM_010923	NP_030074475	1.70744e-005		70.7	
1419500_at	Tgm2	transforming growth factor, basic induced	8.0	5615 // regulation of cell cycle / <i>in578</i> // extracellular matrix / 5159 // growth factor activity / Mm.247470	NP_034270.NM_010923	NP_030074475	1.70744e-005		70.7	
1425095_at	Smed2	SPARC related modular calcium binding 2	8.4	6508 // proteolysis and peptidol-573 // extracellular space / 3101 // protein binding / <i>inrefm.303731</i>	NP_033399.NM_009937	NP_030074475	2.35977e-005		226.4	
1419503_at	Smed2	SPARC related modular calcium binding 2	8.4	6508 // proteolysis and peptidol-573 // extracellular space / 3101 // protein binding / <i>inrefm.303731</i>	NP_033399.NM_009937	NP_030074475	2.35977e-005		226.4	
1422100_at	Fox1	forkhead box 1 (Oncogene)	8.4	7165 // cell adhesion / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_032112.NM_008080	NP_030074475	2.01055e-007		181.5	
1425184_at	Cdk1at1	procollagen, type I, alpha 1	7.7	1502 // cartilage condensation / <i>in578</i> // extracellular matrix / 5159 // protein binding / <i>inrefm.209175</i>	NP_031755.NM_007729	NP_030074475	2.62855e-005		208.6	
1425185_at	Fbx1	fibulin 1	7.7	7165 // cell adhesion / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_032112.NM_008080	NP_030074475	2.01055e-007		211.1	
1425186_at	Fbx1	fibulin 1	7.7	7165 // cell adhesion / <i>inrefcr534</i> // nucleus / <i>inrefcr3677</i> // DNA binding / <i>inrefcr14297</i>	NP_032112.NM_008080	NP_0300744				

1425475,_at	C04465	procollagen, type IV, alpha 5	6.1	7155 // cell adhesion / inferred 5578 // extracellular matrix [5198 // structural molecule] acMr.286892	NP_031762.NM_0007736	0.000104669	222.1	1354.3	
1424839,_at	Ebf3	early B-cell factor 3	6.1	6350 // transcription / inferred 5634 // nucleus / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034226.NM_010906	9.11527e-005	40.5	245.5	
1454604,_at	Tspan12	tetraspanin 12	6.1	5624 // membrane fraction / --	Mm.21950	0.766595.NM_170007	2.496e-006	25.1	152.5
1424839,_at	Wif1	WIF1 domain containing 1, alpha 2	6.0	6867 // phosphotransport / inferred 5578 // extracellular matrix [5198 // structural molecule] acMr.2388	NP_036719.NM_007743	0.000104444	18.0	889.5	
1455447,_at	D430019H16Rik	RIKEN cDNA D430019H16Rik gene	6.0	6821 // chloride transport / inferred 5578 // extracellular matrix [5198 // structural molecule] acMr.2388	NP_034029.NM_009899	0.000109007	79.5	478.6	
1436413,_at	Serpt7	SMO1/serpin specific protease 7	6.0	6253 // peptidase activity / inMr.25745	NP_030109.NM_0010039	0.000104740	36.1	217.3	
1421072,_at	Iox2	isox2-related homeobox 5 (Drosophila)	6.0	e455 // regulation of transcript 5534 // nucleus / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034995.NM_008226	0.000104700	33.4	200.5	
1424839,_at	Bmsn1	BMSN1/matrix metallo associated, actin dependent regi	5.9	16588 // chromatin modification 5534 // nucleus / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_044294.NM_005233	0.000104598	79.0	130.8	
1447788,_at	Cd2020	Cd2020 antigen	5.9	5615 // extracellular space [5515 // protein binding] / inferred Mr.25851	NP_034948.NM_010818	0.000106232	58.1	344.9	
1419379,_at	Gpr124	G protein-coupled receptor 124	5.9	7165 // signal transduction / inMr.5868 // plasma membrane / 4871 // signal transducer actMr.87046	NP_473385.NM_0050408	3.62819e-006	267.9	1590.7	
1433968,_at	Zfp563	zinc finger protein 563	5.9	5615 // extracellular space [5515 // protein binding] / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034948.NM_005233	0.000104444	27.6	163.3	
1421946,_at	R025872	cDNA sequence BC05872	5.9	5615 // extracellular space [5515 // protein binding] / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034948.NM_005233	0.000104444	19.3	106.5	
1416401,_at	Kai1	kai1 (suppressor of tumorigenicity 6, prostate)	5.8	5686 // plasma membrane / --	Mm.232401	NP_603434.NM_145458	2.25168e-006	136.9	800.6
1456700,_at	Marck	Myristoylated alanine rich protein kinase C substrate	5.8	5686 // plasma membrane / --	Mm.265525	NP_840708.NM_178593	7.0164e-005	122.4	719.9
1457022,_at	Ptn	parathyroid hormone receptor 1	5.8	5686 // plasma membrane / --	Mm.160202	NP_036454.NM_008538	5.66348e-006	93.2	5468.2
1457022,_at	Retn	cathepsin E	5.8	5686 // plasma membrane / --	Mm.160202	NP_035229.NM_011199	1.35794e-005	133.5	774.8
1436478,_at	Af616274	expressed sequence Eaf616274	5.8	5686 // plasma membrane / --	Mm.3059	NP_03264.NM_008538	5.15879e-005	133.5	774.4
1427233,_at	Sdcag3	serologically defined colon cancer antigen 33	5.8	5615 // extracellular space [5515 // protein binding] / inferred Mr.25851	NP_034948.NM_010818	0.000106232	88.6	513.6	
1436937,_at	Rbm3	RNA binding motif, single stranded interacting protein	5.8	7165 // signal transduction / inMr.5868 // plasma membrane / 4871 // signal transducer actMr.87046	NP_473385.NM_0050408	2.04717e-006	82.5	476.5	
1437502,_at	Cdk4	cholinesterase, nuclear activated 1	5.8	5615 // extracellular space [5515 // protein binding] / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034948.NM_005233	0.000104444	62.9	361.6	
1426933,_at	Hipk2	homeodomain interacting protein kinase 2	5.6	5686 // plasma membrane / --	Mm.160202	NP_035229.NM_012022	0.000104444	23.7	130.0
1436948,_at	D4305091218Rik	RIKEN cDNA D4305091218Rik gene	5.6	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1417111,_at	Man1a	mannosidase I	5.7	5975 // carbohydrate metabolism 159 // Golgi membrane / inferred 5578 // extracellular matrix [5198 // protein binding] / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034948.NM_005233	0.000109007	174.4	995.1	
1422394,_at	Mest	mesomodulin, specific transcript	5.7	5650 // proteolysis and peptide 5615 // extracellular space [5515 // protein binding] / inferred Mr.25708	NP_032616.NM_008590	1.31819e-005	1352.5	7693.9	
1414161,_at	Gata4	GATA binding protein 4	5.7	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000104444	70.3	400.6
1447803,_at	Retn	cathepsin E	5.7	5686 // plasma membrane / --	Mm.265525	NP_840708.NM_178593	7.0164e-005	122.4	719.9
1448785,_at	Cbf2a1h	CBF2A1 gene homolog (human)	5.7	5686 // plasma membrane / --	Mm.265525	NP_035229.NM_008538	5.66348e-006	93.2	5468.2
1417110,_at	mannosidase I, alpha	mannosidase I, alpha	5.7	5686 // plasma membrane / --	Mm.160202	NP_035229.NM_011199	1.35794e-005	133.5	774.8
1417582,_at	Xct	chloride channel activated 1	5.7	5686 // plasma membrane / --	Mm.3059	NP_03264.NM_008538	5.15879e-005	133.5	774.4
1426903,_at	D430403K07Rik	RIKEN cDNA D430403K07Rik gene	5.6	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.7	5975 // carbohydrate metabolism 159 // Golgi membrane / inferred 5578 // extracellular matrix [5198 // protein binding] / inferred fr.3677 // DNA binding / inferred Mr.25708	NP_034948.NM_005233	0.000109007	174.4	995.1	
1427442,_at	P4h2	procollagen-proline, 2-oxoglutarate 4-dehydrogenase (prolin	5.6	5686 // plasma membrane / --	Mm.2739	NP_035229.NM_012022	0.000237675	218.3	1220.4
1436990,_at	Cad252	cadherin 25	5.6	5686 // plasma membrane / --	Mm.2739	NP_035229.NM_012022	0.000237675	218.3	1220.4
1416496,_at	Foxa1	forkhead box A1	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Foxa1	forkhead box A1	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1416496,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1448933,_at	Poth11	protoactinin beta 17	5.5	5686 // plasma membrane / --	Mm.229102	NP_035229.NM_012022	0.000237675	218.3	1220.4
1437502,_at	Cd24a	Cd24a	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1419017,_at	Cxcr4	chemokine (C-X-C motif) receptor 4	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1427442,_at	Cad242	cadherin 24	5.5	5686 // plasma membrane / --	Mm.2739	NP_665182.NM_172930	0.000109007	35.9	205.6
1436990,_at	Cad252	cadherin 25	5.5	5686 // plasma membrane / --	Mm.2739	NP			

1415923_at	Ndn	neurodin	4.2	1558 // regulation of cell growth 5634 // nucleus // inferred fr 3677 // DNA binding // interreMm.250919	NP_035120.2.NM_010882	1.1238e-005	760.2	3223.9		
1426136_at	2210415K03Rik	RIKEN cDNA 2210415K03 gene	4.2	... ---	... ---	1.75118e-008	504.0	2132.9		
1424010_at	Mtp4	microtubular-associated protein 4	4.2	7155 // cell adhesion // inferred 5277 // microtubfil // inferred	Mm.272278	0.038844..NM_029568	1.1828e-007	274.7	1162.1	
1430361_at	Lcav3	lumican	4.2	... ---	Mm.272278	0.038844..NM_029568	2.0048e-006	107.1	477.1	
1424849_at	Mnd	monocyte to macrophage differentiation-associated	4.2	19835 // cytolysis // inferred 16021 // integral to membra	NP_037518..NM_028178	4.6928e-006	517.7	2176.2		
1438565_at	---	Transcribed locus, strongly similar to YP_516003.1 simila	4.2	4872 // receptor activity // interreMm.277518	NP_038454..NM_028178	1.6041e-006	44.6	187.2		
1427985_at	9630042H07Rik	RIKEN cDNA 9630042H07Rik gene	4.2	7276 // gameteogenesis // inferre	Mm.265209	... ---	1.529e-007	51.8	215.1	
1417423_at	Gria4	glutamate receptor, ionotropic, N-methyl-D-aspartate-asso	4.2	16021 // integral to membra	NP_079567..NM_023166	3.0048e-007	741.8	3104.2		
1421771_at	Fgr3	blastokid growth factor receptor 3	4.2	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	4.9000e-005	128.0	580.7		
1447624_s_at	4933409N07Rik	RIKEN cDNA 4933409N07 gene	4.2	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	7.5250e-006	180.0	749.4		
1439794_at	at	transmembrane protein	4.1	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	1.0000e-005	221.2	928.4		
1422851_at	Ephb3	EF-hand protein A10	4.1	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	1.2510e-005	175.5	295.4		
1459840_s_at	181010N17Rik	RIKEN cDNA 181010N17 gene	4.1	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	1.4900e-005	53.3	221.2		
1460574_at	Dact1	dapper homolog 1, antagonist of beta-catenin (xenopus)	4.1	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	2.5108e-005	382.1	1424.0		
1455720_at	Lezd	lypal oedase-like 2	4.1	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	2.5120e-005	197.5	295.4		
1430044_at	Sklc401	solute carrier family 40 (iron-regulated transporter), memt	4.1	6810 // transport // inferred from5743 // mitochondrial inner	NP_058913..NM_016917	0.00048185	141.9	750.4		
1425985_s_at	Mapsp1	mannose-binding lectin secrose protease 1	4.1	6509 // proteolysis and peptidol 5615 // extracellular space	NP_032581..NM_008655	0.00042985	163.0	672.5		
1417505_s_at	I111rat1	I111rat1 interleukin 11 receptor, alpha chain 1 // interleukin 11 rec	4.1	1779 // natural killer cell differenc	NP_034769..NM_010549	3.95041e-006	187.5	770.1		
1438665_at	Smnpd3	springmolin phosphodiesterase 3, neutral	4.1	6810 // springmolin metabo74 // G-protein apparatus // 4767 // springmolin phosn	Mm.232068	0.067466..NM_021249	1.0000e-005	106.7	437.8	
1440145_at	Spns1	SPNS1	4.1	7255 // neural crest migra	NP_037240..NM_028178	1.2400e-005	170.2	390.2		
1417644_at	Sgn	sarcospan	4.1	74 // regulation of cell cycle // in5622 // extracellular / inferre	Mm.49869	NP_037476..NM_010566	0.00008062	35.7	148.3	
1417937_at	Dact1	dapper homolog 1, antagonist of beta-catenin (xenopus)	4.1	5634 // nucleus // inferred fr	Mm.35837	NP_037331..NM_025455	4.0811e-005	57.2	237.0	
1417359_at	Mtp2	microtubular-associated protein 2	4.1	1527 // development // inferred 5277 // membrane	Mm.35837	NP_037252..NM_008548	0.00105407	49.2	203.5	
1455745_at	---	---	4.1	5076 // nucleic-acid binding // interreMm.118744	NP_201852..NM_03325	0.00066731	84.9	351.3		
1417104_at	Ucrn2	solute carrier family 40 (iron-regulated transporter), memt	4.1	6810 // transport // inferred from5743 // mitochondrial inner	NP_058913..NM_016917	0.00048185	141.9	750.4		
1425985_s_at	Mapsp1	mannose-binding lectin secrose protease 1	4.1	6509 // proteolysis and peptidol 5615 // extracellular space	NP_032581..NM_008655	0.00042985	163.0	672.5		
1434740_at	Cla4	clusterin	4.1	1779 // natural killer cell differenc	NP_034769..NM_010549	3.95041e-006	187.5	770.1		
1416498_at	Ppx1	peptidyl-prolyl isomerase C	4.1	6457 // protein folding // inferred515 // extracellular space // 3755 // peptidyl-prolyl cis-starPro	NP_032934..NM_008909	0.00015441	854.2	3469.2		
1440145_at	Entpd4	ectonucleotide triphosphate diphosphorylase 4	4.0	... ---	Mm.25259	NP_037240..NM_028178	3.8250e-006	59.8	241.9	
1421405_at	Avg14242	expressed sequence AW146242	4.0	6355 // regulation of transcriptio	Mm.24642	NP_066280..NM_146168	0.00022661	194.9	787.0	
1451475_at	Pnfx1	plexin D1	4.0	1569 // patterning of blood vessel	NP_060628..NM_028378	1.35857e-008	152.6	514.4		
1426810_s_at	9930013L23Rik	RIKEN cDNA 9930013L23 gene	4.0	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	1.6394e-006	152.6	514.4		
1426810_s_at	9930013L23Rik	RIKEN cDNA 9930013L23 gene	4.0	5634 // nucleus // inferred fr	Mm.160389	NP_109653..NM_030728	1.08319e-006	346.4	1393.8	
1416343_at	Lamp2	lysosomal membrane glycoprotein 2	4.0	6418 // RNA amine/acylation for5624 // membrane fraction	NP_034815..NM_011068	3.9381e-005	361.2	1451.2		
1459294_at	Hdfgfp3	hemopota-derived growth factor, related protein	4.0	8263 // cell proliferation // inferred 5634 // nucleus // inferred	Mm.28867	NP_038914..NM_013888	0.00065867	65.8	263.7	
1438697_at	Ucrn2	ubiquitin-conjugating enzyme E2H	4.0	6464 // protein modification // id	Mm.28867	NP_038914..NM_013888	0.00065867	65.8	263.7	
1440423_at	Gyrf1	...	4.0	5978 // glycogen biosynthesis //	Mm.28867	NP_038914..NM_013888	0.00065867	65.8	263.7	
1431844_at	B430320C24Rik	RIKEN cDNA B430320C24 gene	4.0	6468 // protein amino acid phos 5615 // extracellular space	NP_037240..NM_028178	0.00015441	854.2	3469.2		
1420847_at	Fgr2	riboklastin growth factor receptor 2	4.0	6259 // lipid metabolism // inferred515 // extracellular space // 3824 // catalytic activity // inferredMm.16340	NP_043337..NM_012027	0.00003173	177.1	701.3		
1421405_at	Lip1	lipin 1	4.0	6259 // lipid metabolism // inferred515 // extracellular space // 3824 // catalytic activity // inferredMm.16340	NP_043337..NM_012027	0.00002126	180.2	711.8		
1443031_at	B13001701Rik	RIKEN cDNA B13001701 gene	3.9	7242 // intracellular signaling ca	Mm.25259	NP_037240..NM_028178	0.00001666	308.8	1000.2	
1457794_at	---	---	3.9	5634 // nucleus // inferred fr	Mm.46662	NP_067507..NM_021553	7.66703e-006	173.1	682.7	
1455169_at	Rab11fcp	RAB11 family interacting protein 2 (class II)	3.9	1527 // development // inferred 5277 // membrane	Mm.24167	XP_129312..NM_129331	7.4740e-005	44.4	174.8	
1447774_at	S7t	5704309M01Rik	RIKEN cDNA S7t gene	3.9	5634 // nucleus // inferred fr	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7
1427541_at	---	5700068E07Rik	---	122 // negative regulation of tra5634 // nucleus // inferred fr	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7	
1440584_at	---	5700068E07Rik	---	5615 // extracellular space // 5615 // membrane	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7	
1416814_at	Crr1	CREBBP/E12/P300 inhibitory protein 1	3.9	122 // negative regulation of tra5634 // nucleus // inferred fr	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7	
1422854_at	St1	ST1 family, 11, member 1	3.9	5615 // extracellular space // 5615 // membrane	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7	
1436920_at	Seprin3n	seprin (or cyclone) protease inhibitor, clade A, member	3.9	5615 // extracellular space // 5615 // membrane	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7	
1456698_at	Hist1c	histone H1c	3.8	5615 // extracellular space // 5615 // membrane	Mm.24167	NP_067507..NM_129331	0.00039896	129.3	506.7	
1427056_at	Adams15	a disintegrin and metallopeptidase (receptor type) w8	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	4.56748e-007	244.4	948.5		
142123_2_at	Cog2as2	cog2 antisense 2	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1426127_at	---	AW146242	---	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1426813_at	Frg1	Fringle	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1459035_at	---	---	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1424081_at	Cis6	cathepsin O	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1456501_at	BC011467	BC011467	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1435509_at	D6Et2525	DNase assembly	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1460921_at	Sgpp1	SGPP1	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1438697_at	D1B09g07919	DNase segment, Chr 10, Bright & Women's Genetics 07E	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1420065_at	D20009F10Rik	DNase segment, Chr 10, Bright & Women's Genetics 07E	3.8	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1417784_at	Atp8	ATPase, Cu++ transporting, alpha polypeptide	3.7	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1430427_at	Poole18	poole18	3.7	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1429055_at	---	poole18	3.7	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1427088_at	Ha62	Ha62	3.7	6508 // proteolysis and peptidol 6-0-sulfotransferase 2	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1449303_at	---	sestrin 3	3.7	6508 // proteolysis and peptidol 5615 // extracellular matrix	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1418195_at	Cdh2	cadherin 2	3.7	6508 // proteolysis and peptidol 5615 // extracellular matrix	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1426905_at	Mln1	laminin	3.7	6508 // regulation of transcription	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1425840_at	Semzf1	semzf1	3.7	6508 // regulation of transcription	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1415949_at	Cpx1	cpx1	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1437417_at	Gp6	glycoprotein 6	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1437418_at	Sam8p9	Sam8p9	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1457744_at	Htrp3	heterogeneous nuclear ribonucleoprotein A3	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1431856_at	C1qtn1	C1q and tumor necrosis factor related protein 6	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1452381_at	Creb3	CAMP responsive element binding protein 3-like 2	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1419157_at	Sord3	Sord3	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1426898_at	Spc4	spastic paraparesis gene 4	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1427110_at	Hoxd3	homeobox domain, HoxD3	3.6	6508 // proteolysis and peptidol 5615 // extracellular matrix	NP_034220..NM_028178	0.00038076	83.7	323.7		
1433755_at	Neod9	neural precursor cell expressed, developmentally down-regulated	3.6	6508 // regulation of transcription	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1419547_at	Creg1	cellular retinoic acid-activated gene 1	3.6	6508 // regulation of transcription	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1417706_at	NauGlu	alpha-N-acetylglucosaminidase (Sanfilippo disease III)	3.6	6508 // regulation of transcription	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7	
1434291_at	Ser1	small EDRK-rich factor	3.6	6508 // regulation of transcription	Mm.25259	NP_037240..NM_028178	0.00038076	83.7	323.7</	

1437008_x_at	111000615Rik	RIKEN cDNA 111000615 gene	2.9	---	5615 // extracellular space / --	Mm.251890	NP_598903.NM_134142	7.05e-005	388.2	1107.0
1436924_x_at	Phf2	PHD finger protein 2	2.9	---	6355 // regulation of transcriptio 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.212554	NP_035208.NM_011078	4.73034e-007	226.9	646.9	
1420928_x_at	St6gal1	beta galactosidase alpha 2,6 sialyltransferase 1	2.9	---	6486 // protein amino acid glyco 5794 // Golgi apparatus // 3835 // beta-galactosidase aliph.Mm.149029	NP_066405.NM_145933	0.000208329	424.3	1209.4	
1429909_x_at	Grb33411Q04Rik	RIKEN cDNA 433411Q04 gene	2.8	---	6626 // lipid metabolism // inferred 515 // extracellular space / 4872 // receptor activity // infer.Mm.4147	NP_038731.NM_013703	0.000326061	403.7	1103.7	
1438931_x_at	Serin1	serinin 1	2.8	---	7050 // cell cycle arrest // inferred 5634 // nucleus // inferred fr --	Mm.139418	XP_25538.2XM_125533	0.000453153	92.0	262.0
1426018_x_at	Sox6	SRV-box containing gene 6	2.8	---	6350 // transcription // inferred 5634 // nucleus // Unknown 3677 // DNA binding // inferre.Mm.323365	NP_036575.NM_011445	2.37377e-005	55.7	158.4	
1417282_x_at	Mmp23	matrix metalloproteinase 23	2.8	---	6500 // proteolysis and peptide 5794 // extracellular matrix // 4222 // metalloendopeptidases	NP_035455.NM_011985	0.000208318	310.3	882.0	
1436833_x_at	Itgb3	integrin, beta 3	2.8	---	6626 // lipid metabolism // inferred 515 // extracellular space / 4872 // receptor activity // infer.Mm.4147	NP_038731.NM_013703	0.000326061	403.7	1103.7	
1448398_x_at	Rpl22	ribosomal protein L22	2.8	---	6802 // protein biosynthesis // 2622 // extracellular // inferred 3723 // RNA binding // inferre.Mm.203874	NP_03105.NM_009075	1.23965e-005	695.2	1971.3	
1450905_x_at	Plnx1	plexin C1	2.8	---	7278 // development // inferred 5615 // extracellular space // 4867 // serine-type endopeptidase.Mm.256712	NP_061267.NM_011879	0.00025280	47.3	134.0	
1448953_x_at	Pold20	polymerase, sigma 20	2.8	---	7155 // cell adhesion // inferred 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.203869	NP_04475.1.NM_051345	4.4694e-005	26.7	75.5	
1431911_x_at	Uba3	myeloid/lymphoid or mixed lineage-leukemia translocatior	2.8	---	8055 // regulation of transcriptio 503 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.203869	NP_039520.NM_012969	0.000252803	188.7	598.7	
1437374_x_at	Sorcr1	scavenger receptor class B, member 1	2.8	---	7155 // cell adhesion // inferred 299 // integral to membrane // 4872 // receptor activity // infer.Mm.2824	NP_05921.NM_016741	0.000307477	227.8	643.3	
1451271_x_at	Acat1	acyl-Coenzyme A acyltransferase 1	2.8	---	5739 // methionine // inferred 3985 // acetyl-CoA:C-acylcyt Mm.293233	NP_59933.NM_144797	3.32397e-005	315.6	891.2	
1426011_x_at	ErbB2ip	ErbB2 interacting protein	2.8	---	6605 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1457783_x_at	Fndcb	fibronectin type III containing 3B	2.8	---	6605 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1417321_x_at	Han1	heat shock factor 1, moderately similar to NP_076356.1.RI	2.8	---	1525 // angiogenesis // inferred 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.203874	NP_03105.NM_009075	1.41625e-005	751.4	2251.6	
1436321_x_at	3730212D22Rik	RIKEN cDNA 373212D22 gene	2.8	---	7264 // small GTPase mediated	Mm.254914	NP_780393.NM_175184	9.3867e-005	33.9	95.4
1450843_x_at	Serpin1h	serin (or cysteine) protease inhibitor, clade H, member 1	2.8	---	6457 // protein folding // inferred 5615 // extracellular space // 4866 // endopeptidase inhibit.Mm.227740	NP_03010919.NM_0010019	0.000303781	157.1	442.0	
1450845_x_at	Spns1	spns 1	2.8	---	6457 // protein folding // inferred 5615 // extracellular space // 4866 // endopeptidase inhibit.Mm.227740	NP_03010919.NM_0010019	0.000303781	157.1	442.0	
1437008_x_at	D11E16d498e	DNase segment, Chr 11, ERATO Doi 498, expressed	2.8	---	6512 // ubiquitin cycle // inferred	Mm.251824	NP_05921.NM_016741	0.000307477	227.8	643.3
1424442_x_at	Pjg2	pjga 2, RING-H2 motif containing	2.8	---	7165 // signal transduction // --	Mm.254926	NP_599108.NM_144845	6.54864e-005	566.0	1644.7
1437008_x_at	D11E16d498e	DNase segment, Chr 11, ERATO Doi 498, expressed	2.8	---	5085 // guanyl-nucleotide exchange.Mm.245246	NP_056542.NM_0116848	2.52956e-006	103.2	289.0	
1436153_x_at	Zmtr211	rat zinc finger protein containing 11	2.8	---	6605 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1428122_x_at	2610528K18Rik	RIKEN cDNA 2610528K18 gene	2.8	---	1525 // angiogenesis // inferred 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.203874	NP_03105.NM_009075	1.41625e-005	751.4	2251.6	
1435394_x_at	Rhoc	ras homolog gene family, member C	2.8	---	7264 // small GTPase mediated	Mm.254914	NP_780393.NM_175184	9.3867e-005	33.9	95.4
1450925_x_at	Pip3c2a	PIP3CA	2.8	---	82 // G1/S transition of mitotic 5627 // protein-synthesis-dependent	Mm.254914	NP_780393.NM_175184	9.3867e-005	33.9	95.4
1421711_x_at	Hck	hemopoietic kinase	2.8	---	6589 // proteolysis and peptidol-5757 // extracellular matrix // 2222 // metalloendopeptidases	NP_032801.NM_007400	4.82911e-005	296.9	828.8	
1425503_x_at	Ran	rest (Ran-binding) GTP-binding protein	2.8	---	5881 // cytoplasmic nucleic m555 // protein binding // inferre.Mm.241109	NP_06239.NM_0119765	3.1384e-006	24.4	67.8	
1425891_x_at	Rb12	retinoblastoma-binding protein	2.8	---	6350 // signal transduction // inferred 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.203869	NP_039580.NM_011250	0.00062462	94.6	263.2	
1450838_x_at	Atp11a	ATPase, class V, type 1A	2.8	---	6812 // cation transport // inferred 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.257837	NP_056619.NM_015980	0.00085453	260.4	724.1	
1437008_x_at	1700129L13Rik	RIKEN cDNA 1700129L13 gene	2.7	---	6500 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.203869	NP_039580.NM_011250	0.00085453	260.4	724.1	
1456262_x_at	Cdk1	transforming growth factor beta binding protein 3	2.7	---	1501 // skeletal development // 15576 // extracellular region, 5509 // calcium ion binding // inferre.Mm.281936	NP_032456.NM_008520	0.00016898	373.6	1032.3	
1426737_x_at	Ser151	serine/threonine kinase domain containing 1	2.7	---	16021 // integral to membrane // --	Mm.30837	NP_285969.NM_010188	0.00084620	276.8	768.6
1450795_x_at	Nrd1	Nrd1	2.7	---	287 // magnesium ion binding // inferre.Mm.40577	NP_48841.NM_178728	3.23397e-005	315.6	863.3	
1456739_x_at	Amcc2	aminoacid repeat containing 2	2.7	---	5085 // guanyl-nucleotide exchange.Mm.245246	NP_056542.NM_0116848	2.52956e-006	103.2	289.0	
1450797_x_at	Nrd1	Nrd1	2.7	---	6576 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1421612_x_at	Hck	Hck tyrosine kinase, member H2	2.7	---	7549 // dosage compensation // 176 // nucleosome // inferred fr 3677 // DNA binding // inferre.Mm.203874	NP_03105.NM_009075	1.41625e-005	751.4	2251.6	
1448404_x_at	Pip5k2a	PIP5K2A	2.7	---	16301 // kinase activity // inferre.Mm.313977	NP_03271.NM_008845	0.000285338	102.2	277.7	
1416895_x_at	Ehaf1	ephrin A1	2.7	---	6457 // activation of MAPK // inferred 5615 // extracellular space // --	Mm.15675	NP_04327.NM_0110107	7.44221e-005	121.3	336.1
1441624_x_at	Acvr2a	acetyl-Coenzyme A:acyl-CoA acyltransferase 2	2.7	---	6357 // regulation of transcriptio 5615 // extracellular space // 4872 // receptor activity // inferre.Mm.6834	NP_03439.NM_010950	0.000869436	306.8	849.8	
1421922_x_at	Usp9x	ubiquitin specific protease 29	2.7	---	6500 // transcription // inferred 5634 // nucleus // inferred fr 3677 // nucleic acid binding // inferre.Mm.203869	NP_039580.NM_011250	0.00062462	96.7	245.2	
1421923_x_at	Cd99	Cd99	2.7	---	287 // magnesium ion binding // inferre.Mm.257837	NP_055426.NM_1751370	2.59671e-006	184.9	511.6	
1437008_x_at	3110041P15Rik	RIKEN cDNA 3110041P15 gene	2.7	---	1501 // skeletal development // 15576 // extracellular region, 5509 // calcium ion binding // inferre.Mm.281936	NP_032456.NM_008520	0.00016898	373.6	1032.3	
1417006_x_at	Podd2	polyepoxide domain containing 2	2.7	---	16020 // membrane // --	Mm.268658	NP_077113.NM_022318	3.35652e-005	146.2	403.6
1426720_x_at	Mef2a	Mef2a	2.7	---	6350 // transcription // inferred 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.272288	NP_031810.NM_009154	3.40686e-007	304.0	838.7	
1422185_x_at	Dmtr1	DMTR1	2.7	---	1558 // regulation of cell growth 5576 // extracellular region // 4872 // receptor activity // inferre.Mm.203874	NP_032185.NM_002189	3.0562e-005	119.7	320.2	
1426722_x_at	Dmtr2	DMTR2	2.7	---	6249 // dosage compensation // 176 // nucleosome // inferred fr 3677 // DNA binding // inferre.Mm.203874	NP_032186.NM_002189	3.0562e-005	119.7	320.2	
1426723_x_at	Fz2	fz2	2.7	---	6488 // protein amino acid phs 5615 // extracellular space // 4872 // receptor activity // inferre.Mm.203874	NP_032186.NM_002189	3.0562e-005	119.7	320.2	
1426848_x_at	Lrrk2	transforming growth factor beta binding protein 3	2.7	---	6810 // transport // inferred from 5615 // extracellular space // 4872 // receptor activity // inferre.Mm.203874	NP_032186.NM_002189	3.0562e-005	119.7	320.2	
1419152_x_at	Acat1	acyl-Coenzyme A acyltransferase 1	2.7	---	6355 // regulation of transcriptio 5634 // nucleus // inferred fr 3677 // DNA binding // inferre.Mm.203869	NP_039580.NM_011250	0.000307477	289.0	781.0	
1421822_x_at	Ser151	serine/threonine kinase domain containing 1	2.7	---	6576 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424189_x_at	Scn1a	synapsin, alpha interacting protein 1	2.7	---	6577 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424190_x_at	Scn1b	synapsin, beta	2.7	---	6578 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424191_x_at	Scn1c	synapsin, gamma	2.7	---	6579 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424192_x_at	Scn1d	synapsin, delta	2.7	---	6580 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424193_x_at	Scn1e	synapsin, epsilon	2.7	---	6581 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424194_x_at	Scn1f	synapsin, zeta	2.7	---	6582 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424195_x_at	Scn1g	synapsin, eta	2.7	---	6583 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424196_x_at	Scn1h	synapsin, theta	2.7	---	6584 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424197_x_at	Scn1i	synapsin, iota	2.7	---	6585 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424198_x_at	Scn1j	synapsin, kappa	2.7	---	6586 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424199_x_at	Scn1k	synapsin, lambda	2.7	---	6587 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424200_x_at	Scn1l	synapsin, mu	2.7	---	6588 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424201_x_at	Scn1m	synapsin, nu	2.7	---	6589 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424202_x_at	Scn1n	synapsin, xi	2.7	---	6590 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424203_x_at	Scn1o	synapsin, omega	2.7	---	6591 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424204_x_at	Scn1p	synapsin, pi	2.7	---	6592 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424205_x_at	Scn1q	synapsin, rho	2.7	---	6593 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424206_x_at	Scn1r	synapsin, sigma	2.7	---	6594 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006	320.4	937.6	
1424207_x_at	Scn1s	synapsin, tau	2.7	---	6595 // protein targeting // infer 16323 // basolateral plasma 5515 // protein binding // inferre.Mm.277354	NP_001058.NM_001058	5.37849e-006			

1451091_at	Csf	cathepsin F	2.3	6508 // proteolysis and peptidol_5615 // extracellular space / 4197 // cysteine-type endope.M29561	NP_063914.NM_019861	0.000131283	235.7	546.0	
1437480_at	---	---	2.3	---	---	0.00098309	289.2	669.6	
1450881_s_at	Tmz741	transmembrane 7 superfamily member 1	2.3	16021 // integral to membra	Mm.365767_NP_14588..NM_019199	1.11373e-005	182.9	423.4	
1450261_at	Crk1b	CD28 protein kinase 1b	2.3	16021 // integral to membra	Mm.365767_NP_14588..NM_019199	0.00050505	144.7	344.4	
1435154_at	Cdk5	CDK5 protein kinase 5	2.3	910 // cytokinesis // inferred fr	Mm.272221_NP_056000.NM_016904	1.9523e-005	47.5	109.9	
1433694_s_at	Ptb3b	phosphodiesterase 3b, cGMP-inhibited	2.3	7165 // signal transduction // Infr16020 // membrane / Infr16324 // catalytic activity // Infr16m.30319	NP_03165.NM_011056	6.0376e-006	210.4	486.3	
1441153_at	Lamr1	laminin, alpha 1	2.3	2011 // morphogenesis of an ep.S578 // extracellular matrix / 5102 // receptor binding // Infr16m.30319	NP_03165.NM_011056	3.44037e-007	197.9	456.8	
1454520_at	Crk1b	CD28 protein kinase 5 homolog (Drosophila)	2.3	6350 // transcription // inferred fr 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3410	---	0.00098344	246.6	509.3	
1427924_at	Syntaxin17	syntaxin 17	2.3	---	Mm.291442_NP_06120.NM_146608	0.00098309	211.6	423.4	
1434044_s_at	Repin1	replication initiator 1	2.3	6954 // inflammatory response / 5576 // extracellular region / 5125 // cytokine activity // Infr16m.219183	NP_780308.NM_175098	9.6851e-005	201.1	463.6	
1448510_at	Zfp467	zinc finger protein 467	2.3	45449 // regulation of transcription / 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_06514.NM_016904	0.00051949e-005	126.3	291.1	
1433693_s_at	Retnlf	retinol-binding protein 2 binding protein 2	2.3	122 // negative regulation of transcription / 5344 // nucleus / inferred fr 3677 // transcription coregulation / 3344 // nucleus / inferred fr	---	7.7193e-005	269.7	593.7	
1416472_at	Syap1	synapse-associated protein 1	2.3	5634 // nucleus / inferred fr	Mm.44207_NP_09208.NM_025932	4.78179e-005	406.9	937.5	
1428992_at	1110033D09Rik	Riken cDNA 1110033D09Rik	2.3	---	Mm.21171_NP_08108.NM_026812	3.16667e-005	168.9	388.9	
1426540_at	3321041G04Rik	RIKEN cDNA 3321041G04M4	2.3	---	Mm.24625_NP_084206.NM_029930	1.7376e-005	395.5	910.4	
1444571_at	Coat1	cysteine dioxygenase 1, cytosolic	2.3	19452 // L-cysteine catabolism / 5829 // cytosol / inferred fr 5558 // iron ion binding // Infr16m.201505	NP_498620.NM_030307	8.8203e-007	162.6	314.3	
1451520_at	Dnm1	dynamin 1	2.3	6897 // endocytosis // inferred fr 5117 // membrane coat / 3174 // motor activity // Infr16m.447667	NP_03415.NM_010068	5.56795e-007	446.0	1024.6	
1422717_at	Apn	acid phosphatase 5	2.3	8625 // amino acid biosynthesis / 5739 // mitochondrion / inferred fr 4017 // adenylyl kinase 1 // Infr16m.301252	NP_067274.NM_016904	1.55319e-005	394.1	905.2	
1426293_at	Nrdn	RNA binding motif protein, X chromosome	2.3	6092 // main pathways of carbon / 5739 // mitochondrion / inferred fr 4017 // adenylyl kinase 1 // Infr16m.301252	NP_067274.NM_016904	0.00044316	1141.6	2616.3	
1451912_at	Fgf11	fibroblast growth factor receptor-like 1	2.3	7166 // cell surface receptor link/S15 // extracellular space / 5167 // non-tyrosine kinase activity // Infr16m.35691	NP_473412.NM_054071	3.2793e-005	233.7	536.5	
1435780_at	Pad	pleckstrin and Sec7 domain containing	2.3	---	Mm.26852_NP_09203.NM_028627	0.00051813	320.2	734.9	
1445544_at	Kcnh2	potassium voltage-gated channel, subfamily H (leak)-related potassium channel 2	2.3	160 // two-component signal / 5624 // membrane / 5624 // protein sensor/M6359	NP_03161.NM_013568	8.1788e-005	235.7	540.8	
1426340_at	Stx1a3	synaptosomal-associated protein 250	2.3	6605 // protein targeting // inferred 5887 // cytosolic plasma / 5343 // organic acid/acid salt/M204834	NP_03160.NM_013568	0.00050609	397.7	847.8	
1440848_s_at	Gm2696	Gm2696	2.3	6269 // lipid metabolism / 5624 // extracellular space / 5167	Mm.36428_NM_023299	1.01656e-005	246.6	586.6	
1430808_s_at	Hsd11b2	RIKEN cDNA 880132G07Rik	2.3	3677 // DNA binding // inferred fr 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3410	NP_03651.NM_017568	0.00013403	109.9	252.2	
1450482_at	Ihd2	secreted dehydrogenase 2 (NADP+)-, mitochondrial	2.3	6092 // main pathways of carbon / 5739 // mitochondrion / inferred fr 4017 // adenylyl kinase 1 // Infr16m.301252	NP_067274.NM_016904	0.00044316	1141.6	2616.3	
1441024_s_at	Commd3	complement containing 3	2.3	3086 // cardiac actin cytoskeleton / 5634 // nucleus / inferred fr 3677 // nucleic acid binding // Infr16m.3095	NP_06514.NM_016904	5.523 //	1265.8		
1436853_s_at	Snc1	synapsin, alpha	2.3	4849 // synaptic vesicle transport / 5737 // cytoplasm / inferred fr 3677 // actin binding // Infr16m.1548	NP_17484_NM_03247	2.9114e-005	90.8	207.3	
1435772_at	Kif21b	kinesin family member 21B	2.3	7017 // microtubule-based process / 5871 // kinesin complex / 5737 // actin binding // Infr16m.3095	NP_064362.NM_019968	0.00019889	23.1	53.0	
1419081_at	Atp10	autophagy 10-like (S. cerevisiae)	2.3	5612 // ubiquitin cycle // inferred	Mm.23585_NP_080046.NM_025779	1.37243e-005	70.3	161.0	
1426272_at	Usp15	ubiquitin-specific peptidase 15	2.3	6810 // transport // inferred fr 574 // Golgi apparatus // Infr16m.3095	NP_063630.NM_018167	0.00012031	263.3	606.8	
1434341_s_at	Fkbp14	FK506 binding protein 14	2.3	6457 // protein folding // inferred fr 5783 // endoplasmic reticulum / 3755 // peptidyl-prolyl cis-trans-er	Mm.274653_NP_070501.NM_153573	8.1788e-005	210.4	481.4	
1443989_s_at	Tail1	T-cell acute lymphocytic leukemia 1	2.3	6350 // transcription // inferred fr	Mm.23774_NP_03657.NM_015192	2.32087e-005	65.7	150.3	
1448548_at	Tup4	zinc finger protein 4	2.3	7242 // intracellular signaling ga1373 // cytoplasm / inferred fr 3677 // DNA binding // Infr16m.3095	NP_28151_NM_017568	481.8	1101.3		
1415994_s_at	Hey1	highly expressed in testis related with YWYW motif 1	2.3	1570 // vulgescence // inferred fr 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03453.NM_016904	0.00044316	1141.6	2616.3	
1426250_s_at	Alkbh1	aldehyde dehydrogenase 1, aldehyde dehydrogenase	2.3	4673 // protein acetyltransferase / 5634 // nucleus / inferred fr 3677 // nucleic acid binding // Infr16m.3095	NP_06514.NM_016904	0.00022579	173.3	393.3	
1453707_at	Bmp2k	BMP2-like kinase	2.3	6486 // protein amino acid phos 5634 // nucleus / inferred fr 4672 // protein kinase activity/M28140	NP_542439.NM_018070	0.00012961	90.8	207.3	
1426024_s_at	Vamp8	vesicle-associated membrane protein 8	2.3	16192 // synaptic vesicle transport / 5737 // actin binding // Infr16m.3095	NP_17484_NM_03247	8.02387e-005	588.8	1344.5	
1426987_s_at	F54034L72Rik	RIKEN cDNA F54034L72Rik	2.3	7017 // microtubule-based process / 5871 // kinesin complex / 5737 // actin binding // Infr16m.3095	NP_064362.NM_019968	0.00015068	334.4	765.6	
1419081_at	Usp15	ubiquitin-specific peptidase 15	2.3	6810 // transport // inferred fr 574 // Golgi apparatus // Infr16m.3095	NP_063630.NM_018167	0.00012031	263.3	606.8	
1436837_s_at	Trov15	trinucleotide repeat containing 15	2.3	---	Mm.23605_NP_086224.NM_146112	3.42978e-005	36.9	84.2	
1451450_at	Cap2	caprine adenylate cyclase-activating polypeptide 2 (yeast)	2.3	6457 // protein folding // inferred fr 5783 // endoplasmic reticulum / 3755 // peptidyl-prolyl cis-trans-er	Mm.274653_NP_070501.NM_153573	9.32	212.7		
1419868_s_at	Sgb	secretory granule, basic (lysophosphatidylethanolamine)	2.3	7010 // cytoskeleton organization / 5856 // endoplasmic reticulum // inferred fr 3677 // actin binding // Infr16m.3095	NP_03620.NM_016904	0.000131283	210.4	481.4	
1439556_s_at	Ptk6	protein tyrosine kinase, C epsilon	2.3	6468 // protein amino acid phos 5634 // nucleus / inferred fr 4672 // protein kinase activity/M28140	NP_03651.NM_019492	0.00023783	196.7	423.2	
1426250_s_at	Arh1	brimley kinase 1	2.3	4529 // camtide II biosynthesis / 5739 // mitochondrion / inferred fr 5615 // nucleic acid binding // Infr16m.3095	NP_03651.NM_019492	0.00016680	109.9	252.2	
1422508_s_at	Zfp361	zinc finger protein 36, C3H-like type-I	2.3	5634 // nucleus / inferred fr 3675 // nucleic acid binding // Infr16m.3095	NP_03651.NM_019492	0.00044316	1141.6	2616.3	
1421898_s_at	Pigf1	angiopoietin-like 1	2.3	6506 // GPI anchor biosynthesis / 5762 // endoplasmic reticulum / 3824 // catalytic activity // Infr16m.45106	NP_080354.NM_026078	1.72321e-005	110.3	240.1	
1431012_s_at	Ped1	pedoxin 1	2.3	7033 // peroxisome organizer / 5777 // actin binding // Infr16m.3095	NP_035984.NM_011866	4.18118e-005	415.3	945.4	
1430148_s_at	Comd3	complement component 3	2.3	6350 // transcription // inferred fr 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	0.00022579	109.7	239.8	
1459190_s_at	Efn1	EF-hand domain-containing 1	2.3	16023 // membrane // inferred	Mm.44529_NP_090332.NM_029558	0.00051830	5.9256e-006	107.4	244.0
1452854_s_at	Cpd	coiled-coil domain containing protein	2.3	6505 // soluble fraction / 5615 // membrane // inferred fr 3677 // actin binding // Infr16m.3095	NP_06531.NM_020609	3.8219e-005	188.8	429.1	
1431753_s_at	Pava	parvin, alpha	2.3	7155 // cell adhesion // inferred fr 5634 // nucleus / inferred fr 3779 // actin binding // Infr16m.3095	NP_06531.NM_020609	5.97938e-005	480.8	1092.6	
1452610_s_at	2610050L57Rik	RIKEN cDNA 2610050L57Rik	2.3	---	Mm.157360_UP_483659.KM_48359	0.000131283	150.3	350.7	
1455591_s_at	Usp15	ubiquitin-specific peptidase 15	2.3	6508 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03161.NM_019492	0.00015065	196.7	423.2	
1427071_at	Rgs3	regulator of G-protein signaling 3	2.3	7165 // signal transduction // inferred fr 5634 // nucleus / inferred fr 4672 // protein kinase activity // Infr16m.3095	NP_03651.NM_019492	0.00023783	118.3	270.0	
1419967_s_at	Sit7	Suppression of tumorigenicity 7	2.3	6489 // protein amino acid phos 5634 // nucleus / inferred fr 4672 // protein kinase activity/M28140	NP_03651.NM_019492	0.00012031	225.5	475.6	
1438532_at	Akt1	Cancer research institute 201, NCBI	2.3	1570 // vulgescence // inferred fr 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	2.39442e-005	87.6	187.6	
1430340_s_at	Akt1	Cancer research institute 201, NCBI	2.3	6355 // regulation of transcription / 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	0.00044316	114.1	248.2	
1451731_at	Abca3	ATP-binding cassette, sub-family A (ABC1), member 3	2.3	6897 // endocytosis // inferred fr 5605 // coated pit / inferred fr 4672 // receptor activity // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1433664_s_at	Lip12	low density lipoprotein-related protein 12	2.3	6505 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1451747_s_at	Usp15	ubiquitin-specific peptidase 15	2.3	6505 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1457239_at	Gnaq	guanine nucleotide binding protein, alpha q polypeptide	2.3	6508 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1441045_s_at	Pept1	peptidyl prolyl isomerase 1	2.3	1501 // skeletal development // 5534 // heterotrimeric G-pro 3924 // GTPase activity // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1457238_at	Ptnw2	guanine nucleotide binding protein, alpha w	2.3	3739 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00087050	178.9	342.7	
1426272_at	Trif1	trifunctional protein 1	2.3	6412 // protein biosynthesis // 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1432421_s_at	Smt1	smurf1	2.2	6355 // regulation of transcription / 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1419101_s_at	Tcf1	transcription factor 1	2.2	6350 // transcription // inferred fr 5634 // nucleus / inferred fr 3675 // membrane // inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00011985	108.9	244.3	
1426241_s_at	Trif1	trifunctional protein 1	2.2	6810 // transport // inferred fr 5615 // extracellular space / 5167 // membrane // inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00011985	108.9	244.3	
1432421_s_at	Ptnw2	guanine nucleotide binding protein, alpha w	2.2	6508 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1426259_s_at	Foxd1	Fox-domain containing 1	2.2	6810 // transport // inferred fr 5615 // extracellular space / 5167 // membrane // inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1416451_s_at	Usp15	ubiquitin-specific peptidase 15	2.2	6505 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1416454_s_at	Arf2	ADP-ribosylation factor 2	2.2	7165 // signal transduction // 5534 // extracellular space / 5168 // membrane // inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1422531_at	Zfp46	zinc finger protein 46	2.2	6508 // protein targeting // inferred fr 5615 // nucleus / inferred fr 3677 // actin binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1440093_s_at	BC070747	BC070747	2.2	6355 // regulation of transcription / 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1430084_s_at	D17E104936	D17E104936	2.2	6350 // transcription // inferred fr 5634 // nucleus / inferred fr 3677 // DNA binding // Infr16m.3095	NP_03651.NM_019492	0.00012031	212.7	454.4	
1438687_s_at	Usp15	ubiqu							

1440179_x_at	LOC268291	similar to hypothetical protein MGC26996; chromosome 6	2.2	---	---	---	---	XP_1935583.X3M_193558	1.44648e-005	349.6	756.5
1422431_x_at	Magee1	melanoma antigen, family E, 1	2.2	---	---	---	Mm.24341	_NP_444311.NM_053201	0.000683228	197.4	427.0
1458822_x_at	Surf4	surfite gene 4	2.2	---	5783 // endoplasmic reticul.	---	Mm.30594	_NP_056462.NM_011512	0.000291277	426.8	923.3
1437470_x_at	2610301K12Rik	RIKEN cDNA 2610301K12 gene	2.2	---	5783 // endoplasmic reticul.	---	Mm.25688	_NP_056462.NM_130410	4.09748e-005	212.4	459.2
1426874_x_at	Slc39a6	solute carrier family 39 (metal ion transporter), member 6	2.2	---	5783 // endoplasmic reticul.	---	Mm.30594	_NP_056462.NM_011512	6.1121e-005	630.6	1362.8
1437871_x_at	Pgm5	guanosine nucleotide 5	2.2	---	902 // cellular morphogenesis	5913 // cell-adherens junction 287 // magnesia ion binding	Mm.329784	_NP_778781.NM_175014	0.000457262	106.7	230.5
141172_x_at	Hepb1	heparan binding protein 1	2.2	---	4218 // heme metabolism // UnP37 // cytoplasm // interloc 20037 // heme binding	---	Mm.308574	_NP_058574.NM_013546	0.000546025	863.9	1983.9
1450571_x_at	Zfp628	GWA1666 zinc finger protein 68	2.2	---	6112 // energy related metabolism	4394 // GTPase activity // interloc 2770 // GTPase activity	Mm.27757	_NP_056871.NM_012949	1.05887e-006	686.1	1732.8
1445668_x_at	---	---	2.2	---	6355 // regulation of transcript 5622 // intracellular // interloc 3679 // nucleic acid binding	---	Mm.27575	_NP_056872.NM_013844	0.00061683	212.1	457.2
1429726_x_at	Slc16a9	solute carrier family 16 (monocarboxylic acid transporters)	2.2	---	---	---	Mm.18355	_NP_058053.NM_052007	0.000286601	22.5	48.4
1425205_x_at	Msp1	myelin basic protein	2.2	---	6810 // transport // inferred from 6021 // integral to membra	---	Mm.24522	_NP_056911.NM_011515	84.4	181.8	
1438252_x_at	Surf4	surfite gene 4	2.2	---	5783 // endoplasmic reticul.	5188 // structural molecule membrane	Mm.22030	_NP_056947.NM_010777	5.6309e-006	394.1	893.0
1450302_x_at	Ptk2ta	protein kinase, CAM-dependent regulatory, type I, alpha	2.2	---	42490 // mechanoreceptor diff515 // extracellular space	4713 // protein-tyrosine kinases	Mm.33434	_NP_056732.NM_009746	4.5349e-006	47.8	103.0
1435254_x_at	Pnkt1	putative receptor P2X ligand-gated ion channel 4	2.2	---	1701 // mesoderm formation // UnP37 // cytoplasm // interloc 20037 // heme binding	---	Mm.30680	_NP_056880.NM_021880	0.002044418	1384.5	2981.4
1437107_x_at	B23024M21Rik	RIKEN cDNA 23024M21 gene	2.1	---	6810 // transport // inferred from 5887 // integrin plasma 472 // receptor activity // interloc 2048	---	Mm.25757	_NP_056881.NM_010126	1.274	274.2	
1445338_x_at	Kadif1	potassium channel tetramerization domain containing 15	2.1	---	7275 // development // inferred 116021 // membrane // interloc 4872 // receptor activity	---	Mm.57882	_NP_766363.NM_172775	5.70184e-005	172.4	370.6
1438254_x_at	Pnkt1	plexin B1	2.1	---	5216 // ion channel activity // UnP3480	---	Mm.23638	_NP_056959.NM_146188	0.000212361	325.7	683.1
1417107_x_at	B23024M21Rik	RIKEN cDNA 23024M21 gene	2.1	---	7165 // cell adhesion // inferred 5579 // extracellular matrix 1550 // calcium ion binding // Mm.4981	---	Mm.30594	_NP_056959.NM_133898	1.000012361	52.6	1181.1
1444956_x_at	---	ridgen	2.1	---	122 // negative regulation of trai534 // nucleus // inferred 3741 // transcription corepressors	---	Mm.33418	_NP_248454.NM_238444	0.000149351	415.6	892.3
1438323_x_at	Irf2bp2	interferon regulatory factor 2 binding protein 2	2.1	---	6810 // transport // inferred from 5165 // integrin plasma 472 // receptor activity // interloc 2048	---	Mm.25757	_NP_056972.NM_013844	0.000304948	331.4	711.3
1441850_x_at	Ton2	transcalmodulin 2	2.1	---	6355 // regulation of transcript 5622 // extracellular // interloc 3677 // nucleic acid binding	---	Mm.254997	_NP_056100.NM_001040	1.08311e-006	70.3	150.9
1426501_x_at	UnP3480	RIKEN cDNA 261042L04 gene	2.1	---	---	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1426501_x_at	Gnat1	guanine nucleotide binding protein, alpha q polypeptide	2.1	---	6810 // transport // inferred from 5165 // integrin plasma 472 // receptor activity // interloc 2048	---	Mm.25757	_NP_056959.NM_146188	0.000212361	165.4	343.5
1450590_x_at	Gnrt1	RIKEN cDNA 9309572921 gene	2.1	---	7165 // signal transduction // inferred 5887 // plasma membrane	---	Mm.23432	_NP_056972.NM_013844	0.000098948	5.6309e-006	383.8
1444956_x_at	---	---	2.1	---	7275 // development // inferred 116021 // membrane // interloc 4872 // receptor activity	---	Mm.57882	_NP_766363.NM_172775	5.70184e-005	172.4	370.6
1421193_x_at	Zfp386	zinc finger protein 386 (Kruppel-like)	2.1	---	5216 // ion channel activity // UnP3480	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1446144_x_at	AV0072216	predicted sequence AW822216	2.1	---	1501 // skeletal development // UnP3480 // heteromeric G-pro 4872 // receptor activity // interloc 2048	---	Mm.254997	_NP_056100.NM_001040	1.08311e-006	70.3	150.9
1432800_x_at	C9orf92	RIKEN cDNA 260003E23 gene	2.1	---	5686 // plasma membrane //	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1417165_x_at	Mtbd1	methyl-cG binding domain protein 2	2.1	---	82 // G1/S transition of mitotic o-	---	Mm.23444	_NP_056234.NM_011976	0.000844665	807.6	1723.6
1453131_x_at	Sestrin3	sestrin 3	2.1	---	3924 // GTPase activity // inferred 5622 // extracellular // interloc 3677 // nucleic acid binding	---	Mm.254997	_NP_056654.NM_139596	0.00012361	375.7	837.1
1435458_x_at	Rab11a	RAB11A, member RAS oncogene family	2.1	---	6810 // transport // inferred from 5165 // integrin plasma 472 // receptor activity // interloc 2048	---	Mm.25757	_NP_056972.NM_013844	0.00012361	50.2	107.1
1428656_x_at	UnP3480	RIKEN cDNA 261042G18Rik gene	2.1	---	6355 // regulation of transcript 5622 // extracellular // interloc 3677 // nucleic acid binding	---	Mm.254997	_NP_056100.NM_001040	1.08311e-006	70.3	150.9
1457072_x_at	B0111	Bc-1 (CUL3) ubiquitin-conjugating enzyme 1A (zinc finger protein)	2.1	---	5216 // ubiquitin conjugating enzyme 2H1	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1419831_x_at	Ube2h	ubiquitin-conjugating enzyme E2H	2.1	---	6350 // transcription // inferred 5622 // nucleic acid binding	---	Mm.25757	_NP_056972.NM_161607	0.000157048	12.6	27.2
1436305_x_at	LOC268291	similar to hypothetical protein MGC26996; chromosome 6	2.1	---	6484 // protein modification // in	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1426197_x_at	Tspy	testis-specific tyrosine kinase	2.1	---	4840 // ubiquitin conjugating Mm.33297	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1446194_x_at	---	---	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1437239_x_at	Phc2	polyhomeostatic 2 (Drosophila)	2.1	---	16021 // integral to membra	---	Mm.28144	_NP_056121.NM_027855	2.00134e-005	255.7	544.9
1429662_x_at	C9orf92	tumour suppressor candidate 3	2.1	---	5615 // extracellular space //	---	Mm.25297	_NP_056149.NM_027373	0.000213606	226.6	476.2
1447903_x_at	Apx12	adaptor-related protein complex 1, sigma 2 subunit	2.1	---	6306 // DNA methylation // trace 285 // chromatin // inferred 3677 // DNA binding	---	Mm.25297	_NP_056150.NM_027773	0.000213606	239.2	509.3
1450591_x_at	UnP3480	---	2.1	---	6810 // cell cycle arrest // inferred 5622 // nucleus // inferred 3741 // transcription corepressors	---	Mm.25297	_NP_056151.NM_027773	0.000213606	239.2	509.3
1453131_x_at	Sestrin3	sestrin 3	2.1	---	5686 // nucleus //	---	Mm.23441	_NP_056564.NM_011579	0.000304948	331.4	711.3
1435458_x_at	Rab11a	RAB11A, member RAS oncogene family	2.1	---	6355 // regulation of transcript 5622 // extracellular // interloc 3677 // nucleic acid binding	---	Mm.254997	_NP_056100.NM_001040	1.08311e-006	70.3	150.9
1428656_x_at	UnP3480	RIKEN cDNA 261042G18Rik gene	2.1	---	5216 // ubiquitin conjugating enzyme 2H1	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1455935_x_at	CRG-L1	cancer related gene 1	2.1	---	6810 // transport // inferred from 5165 // extracellular space //	---	Mm.25757	_NP_056972.NM_161607	0.000157048	12.6	27.2
1442298_x_at	Geno107	Geno 107 (NCBI)	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1438474_x_at	Etb1	endothelial nitric oxide synthase	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1459515_x_at	Carb1	UDP-N-acetyl-beta-D-glucosaminidase	2.1	---	5615 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1426794_x_at	Pigrs	protein tyrosine phosphatase, receptor type, S	2.1	---	6810 // transport // inferred from 5165 // extracellular space	---	Mm.25757	_NP_056972.NM_161607	0.000157048	12.6	27.2
1424970_x_at	Purk	putine-rich element binding protein G	2.1	---	5615 // extracellular space //	---	Mm.25297	_NP_056149.NM_027373	2.00134e-005	226.6	476.2
1438185_x_at	Hist2h2aa2	histone H2A histone H2A histone H2A histone H2A	2.1	---	6306 // protein binding // inferred 5622 // extracellular space	---	Mm.25297	_NP_056972.NM_161607	0.000157048	12.6	27.2
1452508_x_at	UnP3480	RIKEN cDNA 111035L05Rik gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1449603_x_at	Serpin	serpin A1B	2.1	---	6810 // transport // inferred from 5165 // extracellular space //	---	Mm.25757	_NP_056972.NM_161607	0.000157048	12.6	27.2
1437671_x_at	UnP3480	RIKEN cDNA 943063L05 gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1438492_x_at	Serpin	serpin A1B	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1417874_x_at	UnP3480	RIKEN cDNA 231004K06 gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1438487_x_at	Rhob3	rho-related BTB domain containing 3	2.1	---	5216 // ubiquitin conjugating enzyme 2H1	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1446154_x_at	Aca2	alpha 2, sphingomyelin, alpha 2	2.1	---	6810 // transport // inferred from 5165 // extracellular space	---	Mm.25757	_NP_056972.NM_161607	0.000157048	12.6	27.2
1428952_x_at	Prkf1	preproline-rich protein 1	2.1	---	5615 // extracellular space //	---	Mm.25297	_NP_056149.NM_027373	2.00134e-005	226.6	476.2
1435059_x_at	Ddef1	development and differentiation enhancing	2.1	---	6355 // regulation of transcripts 5634 // nucleus //	---	Mm.25297	_NP_056972.NM_161607	0.000157048	12.6	27.2
1452508_x_at	C1300623	hypothetical protein AI96578	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1429656_x_at	Cdc42	Cdc42-associated protein 4	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1432084_x_at	Amcc2	amidino repeat containing, X-linked	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1426944_x_at	UnP3480	RIKEN cDNA 20101120Rik gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1428450_x_at	UnP3480	RIKEN cDNA 201034B18Rik gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1437928_x_at	UnP3480	RIKEN cDNA 20101120Rik gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1431055_x_at	Dra1	DRA1 (Hsp40) homolog, subfamily B, member 4	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1424623_x_at	UnP3480	RIKEN cDNA 221010L05Rik gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1427074_x_at	S33041D40	RIKEN cDNA S33041D40 gene	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1437673_x_at	Tbc1d16	TBC1 domain family, member 16	2.1	---	5686 // protein binding // inferred 5622 // extracellular space	---	Mm.23638	_NP_056959.NM_146188	0.000212361	165.4	343.5
1442825_x_at	Fmn4d	FMRN									

1455045_at	Srr	serine racemase	2.0	6520 // amino acid metabolism --	3824 // catalytic activity // inferMm.131443	NP_038789.1 NM_013761	7.14735e-005	152.8	308.6	
1454708_at	Abi1mt	actin-binding LIM protein 1	2.0	7010 // cytoskeleton organization/assembly // cytoskeleton / inferMm.217161	NP_848803.2 NM_178688	0.000133712	167.5	338.3		
1427125_s_at	D630045E04Rik	RIKEN cDNA D630045E04 gene	2.0	6512 // ubiquitin cycle // inferred fr --	Mm.260786	NP_70741.1 NM_153521	4.7749e-005	609.2	1230.4	
1434613_at	1810013L24Rik	RIKEN cDNA 1810013L24 gene	2.0	6630 // steroid biosynthesis // inferMm.5783 // endoplasmic reticulum	Mm.260786	NP_70741.1 NM_153521	0.000133712	167.5	338.3	
1434613_at	Pcb4b	phosphodiesterase 4B, cAMP specific	2.0	6634 // steroid biosynthesis // inferMm.5783 // endoplasmic reticulum	Mm.260786	NP_70741.1 NM_153521	0.000429505	296.7	588.6	
1422473_at	Gsk3b	glycogen synthase kinase 3 beta	2.0	6939 // smooth muscle contraction // inferred fr --	4115 // cAMP-specific phosphMm.20181	NP_062814.1 NM_019840	0.00032006	110.2	222.3	
1419100_at	A03009H04Rik	RIKEN cDNA A03009H04 gene	2.0	7199 // G-protein signaling, coupled to receptor // extracellular space	5515 // protein binding // inferMm.217161	NP_065618.1 NM_020598	0.000891038	55.6	111.0	
1417594_at	Gk3ab	GSK3 beta anchoring protein	2.0	6487 // protein folding // inferred fr --	Mm.260786	NP_70741.1 NM_153521	0.00020025	402.1	810.6	
1446913_at	D630040517Rik	RIKEN cDNA D630040517 gene	2.0	61072 // heat shock protein hsp70 // inferred fr --	Mm.48724	XP_146503.4 XM_146503	2.1485e-005	382.0	787.5	
1427050_at	5730420B22Rik	RIKEN cDNA 5730420B22 gene	2.0	6118 // electron transport // inferred fr --	30612 // arsenate reductase	Mm.28129	NP_766185.1 NM_172597	1.07808e-005	138.2	278.2
1433013_at	AV0217186	expansin-like protein AV0217186	2.0	6002 // inferred fr --	Mm.24984	NP_802602.1 NM_177592	0.000204567	261.9	527.1	
1426976_at	Cox6f	specific paralogous Cox6f protein (Troyer syndrome) homolog	2.0	5915 // extracellular space // inferred fr --	Mm.26229	NP_70741.1 NM_153521	0.000204567	261.9	527.1	
1426994_at	Ccr4	CCR4-NOT transcription complex, subunit 6	2.0	6350 // transcription // inferred fr 5634 // nucleus // inferred fr 287 // magnesium ion binding	Mm.247113	NP_957648.1 NM_212484	0.000202961	451.0	906.7	
1422466_at	--	--	2.0	---	---	---	7.0655e-005	129.9	261.1	
1429175_at	2810417M05Rik	RIKEN cDNA 2810417M05 gene	2.0	---	---	---	39.2	78.8		
1455901_at	Egr1	EGF receptor, member 5	2.0	---	Mm.357108	NP_060792.1 NM_026516	0.00053155	44.3	88.9	
1452591_at	Nanog2	nanog-2	2.0	16021 // integral membrane protein, multiple 5	Mm.5323	NP_065616.1 NM_020598	0.000891038	55.6	111.0	
1434655_at	C33050A14Rik	RIKEN cDNA C33050A14 gene	2.0	7165 // cell adhesion // inferred fr 16021 // integral membrane protein binding // inferred fr --	Mm.260786	NP_70741.1 NM_153521	1.25941e-005	138.2	278.2	
1419059_at	Ehd1	EGF, IGF-activated seven transmembrane domain containing	2.0	---	Mm.119234	NP_945262.1 NM_198862	0.000891038	55.6	111.0	
1426185_at	Acvr1b	expressed sequence Acv1b180	2.0	7165 // signal transduction // inferred fr 16021 // membrane	Mm.317261	NP_573485.1 NM_133222	6.16267e-006	22.7	45.5	
1426202_at	201030D22Rik	RIKEN cDNA 201030D22 gene	2.0	5634 // nucleus // inferred fr --	Mm.234040	NP_759013.2 NM_172381	0.00032006	109.1	218.9	
143378_at	Mxd4	Max dimerization protein 4	2.0	6350 // transcription // inferred fr 5634 // DNA binding // inferred fr 3677 // DNA binding // inferred fr --	Mm.25260	NP_034883.2 NM_010753	0.00015473	140.8	282.5	
1426404_a_at	Rnbd1	ring finger protein 11	2.0	6511 // ubiquitin-dependent protein 51 // ubiquitin ligase comp	Mm.27605	NP_038904.1 NM_013879	5.88838e-005	612.3	1227.7	
1436650_at	5730489Y21Rik	RIKEN cDNA 5730489Y21 gene	2.0	---	Mm.23049	NP_496240.1 XM_486240	0.000379934	93.8	187.6	
1415705_at	9130111J15Rik	RIKEN cDNA 9130111J15 gene	2.0	---	Mm.23049	NP_496240.1 XM_486240	0.000379934	93.8	187.6	
1419332_at	Sordz1	sorcin-related (PS10)-like protein	2.0	6886 // intracellular protein translocation // extracellular space	16491 // sugar binding // inferred fr 34113	NP_12151.1 NM_020598	0.000453119	117.7	270.2	
1428259_at	231007M15Rik	RIKEN cDNA 231007M15 gene	2.0	---	Mm.251774	XP_283052.2 XM_283052	0.000284861	1005.3	2014.4	
1419858_at	241005G16Rik	RIKEN cDNA 241005G16 gene	2.0	---	Mm.257603	NP_079752.1 NM_025477	0.000100042	106.0	212.4	
1415715_at	2410015J15Rik	RIKEN cDNA 2410015J15 gene	2.0	---	Mm.23049	NP_496240.1 XM_486240	2.26715e-006	180.6	361.7	
1434638_at	Grin3a	glutamate receptor, group 3	2.0	7274 // neuromuscular synaptic 5576 // extracellular region	Mm.267570	NP_002768.1 NM_0007842	2.26715e-006	180.6	361.7	
1426801_at	Sept8	septin 8	2.0	7049 // cell cycle // inferred fr --	5525 // GTP binding // inferred fr 27399	NP_149156.1 NM_031344	0.000204567	24.4	50.9	
1452202_at	Pde2a	phosphodiesterase 2A, cGMP-stimulated	2.0	7165 // signal transduction // inferred fr 16021 // membrane	Mm.247564	NP_0010085.1 NM_0010085	0.000127104	87.1	174.3	
1449441_a_at	Wtp1	VWW domain binding protein 1	2.0	---	16021 // integral membrane protein 5151 // protein binding // inferred fr 11094	Mm.44356	NP_808242.1 NM_177574	0.000371543	544.4	1089.2
1457736_at	Wbsc24	Williams-Beuren syndrome chromosome region 24 homol	2.0	6629 // lipid metabolism // inferred fr 5615 // extracellular space	Mm.44356	NP_808242.1 NM_177574	0.000208404	165.3	330.8	
1426893_at	Vldr	very low density lipoprotein receptor	2.0	6629 // lipid metabolism // inferred fr 5615 // extracellular space	Mm.44356	NP_808242.1 NM_177574	0.000208404	165.3	330.8	
				6629 // lipid metabolism // inferred fr 5615 // receptor activity // inferred fr 4141	Mm.44356	NP_808242.1 NM_177574	0.000606065	78.4	156.9	

Suppl. Table S4: List of transcripts two- or more-fold up-regulated in wt and Pax4+ cells

S4a: Wt cells 5+16d vs. 5+28d

Probe ID	FC	Gene Symbol	Gene Title
Transcriptional regulation			
1438211_s_at	3.2	Dbp	D site albumin promoter binding protein
1426743_at	2.8	Dip3b	Dip3 beta
1420337_at	2.7	Gbx2	gastrulation brain homeobox 2
1424034_at	2.1	Rora	RAR-related orphan receptor alpha
Signaling, growth factors			
1435495_at	4.1	Adora1	adenosine A1 receptor
1433769_at	2.6	Als2cl	ALS2 C-terminal like
1439255_s_at	2.0	Tm7sf1	transmembrane 7 superfamily member 1
Adhesion, extracellular matrix			
1416114_at	6.4	Sparcl1	SPARC-like 1 (mast9, hevin)
1416321_s_at	6.2	Prelp	proline arginine-rich end leucine-rich repeat
Membrane, transport			
1434449_at	61.5	Aqp4	aquaporin 4
1448735_at	10.7	Cp	ceruloplasmin
1435148_at	6.0	Atp1b2	ATPase, Na+/K+ transporting, beta 2 polypeptide
1427747_a_at	3.9	Lcn2	lipocalin 2
1448690_at	3.2	Kcnk1	potassium channel, subfamily K, member 1
1417963_at	2.3	Pltp	phospholipid transfer protein
Organogenesis			
1448139_at	12.3	Mlc1	megalencephalic leukoencephalopathy with subcortical cysts 1 homolog (human)
Metabolism, peroxisome			
1420575_at	10.4	Mt3	metallothionein 3
1448507_at	6.9	Efhd1	EF hand domain containing 1
1422557_s_at	4.8	Mt1	metallothionein 1
1428942_at	4.7	Mt2	metallothionein 2
1454858_x_at	2.3	Mettl7a	methyltransferase like 7A
1426236_a_at	2.1	Glul	glutamate-ammonia ligase (glutamine synthase)
Cytoskeleton, intermediate filaments			
1426509_s_at	46.4	Gfap	glial fibrillary acidic protein
1435504_at	2.9	Rsnl2	Restin-like 2
1417307_at	2.3	Dmd	dystrophin, muscular dystrophy
RIKEN cDNA, unknown ESTs			
1453119_at	3.2	Otd1	OTU domain containing 1
1432198_at	2.5	---	---
1427878_at	2.3	0610010O12Rik	RIKEN cDNA 0610010O12 gene

S4b: Pax4+ cells 5+16d vs. 5+28d

Probe ID	FC	Gene Symbol	Gene Title
Membrane, transport			
1435154_at	3.2	LOC245128	similar to solute carrier family 7 (cationic amino acid transporter, y+ system), member 3
Organogenesis			
1423429_at	3.9	Pem	placentae and embryos oncofetal gene
Metabolism, peroxisome			
1428942_at	2.3	Mt2	metallothionein 2
Apoptosis			
1436990_s_at	3.0	Ndg2	Nur77 downstream gene 2
1450752_at	2.1	Cyct	cytochrome c, testis

Suppl. Table 5: Transcripts two- or more-fold up-regulated in wt and Pax4+ cells at the committed progenitor stage (0d vs. 5+16d) compared to tissue samples (according to Gu et al., 2004)

S5a: Transcripts enriched in endoderm vs. meso- and ectoderm at E7.5

Gene	FC wt cells	FC Pax4+ cells	Gene Title
Symbol			
Growth factors, receptors, and signaling molecules			
Cmkor1	14.1	9.0	Chemokine orphan receptor 1
Igf2	10.5	14.1	Insulin-like growth factor 2
Igfbp5	18.6	41.8	Insulin-like growth factor binding protein 5
Kitl	6.7	4.8	Kit ligand
Nrp (Nrp1)	10.2	35.9	Neuropilin
Nedd9	7.7	8.8	neural precursor cell expressed, developmentally down-regulated gene 9
Pthr (pthr1)	2.7	-	Parathyroid hormone receptor 1
Transcriptional regulators and other nuclear factors			
Dab2	-	6.7	Disabled homolog 2 (Drosophila)
Foxa1	7.3	6.0	Forkhead box A1
Msx1	2.4	2.0	Homeo box, msh-like 1
Nr2f2	17.0	32.8	Nuclear receptor subfamily 2, group F, member 2
Cell surface, adhesion, matrix, cytoskeletal protein			
App	6.4	9.8	Amyloid beta (A4) precursor protein
Col4a1	5.9	6.9	Procollagen, type IV, alpha 1
Col4a2	5.2	7.2	Procollagen, type IV, alpha 2
Itm2b	3.7	3.8	Integral membrane protein 2B
Xpr1	5.1	4.4	Xenotropic and polytropic retrovirus receptor 1
Hormones, proteases, and secretory apparatus			
Cpd	-	3.0	Carboxypeptidase D
Serpinh	3.3	7.5	Serine (or cysteine) proteinase inhibitor, clade H, member 1
Cell cycle associated genes			
Cdkn1c	5.4	-	Cyclin-dependent kinase inhibitor 1C (P57)
Gas6	-	6.4	Growth arrest specific 6
Cell death			
Capn6	4.2	4.3	Calpain 6
Pea15	5.2	5.0	Phosphoprotein enriched in astrocytes 15
Others			
H19	8.3	-	H19 fetal liver
Pon2	-	2.4	Paraoxonase 2

S5b: Transcripts enriched in Pdx1+ pancreatic cells vs. Pdx1+ cells in stomach and duodenum at E10.5

Gene FC wt cells FC Pax4+ cells Gene Title

Symbol

Growth factors, receptors, and signaling molecules

Amfr	2.6	2.5	Autocrine motility factor receptor
Dlk1	35.8	-	Delta-like 1 homolog (Drosophila)
Notch1	2.5	-	Notch gene homolog 1 (Drosophila)
Rgs2	23.2	3.5	Regulator of G-protein signaling 2
Sos2	2.2	-	Son of sevenless homolog 2 (Drosophila)

Transcriptional regulators and other nuclear factors

Idb3	2.6	-	Inhibitor of DNA binding 3
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Cell surface, adhesion, matrix, cytoskeletal protein

App	6.4	-	Amyloid beta (A4) precursor protein
Prkcb	5.8	-	Protein kinase C, beta 1 (Prkcb1)
Vim	-	4.0	Vimentin

Hormones, proteases, and secretory apparatus

Chgb	16.2	-	Chromogranin B
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Cell cycle associated genes

Cdkn1c	5.4	-	Cyclin-dependent kinase inhibitor 1C (P57)
Dp1	2.9	-	Deleted in polyposis 1

Transport proteins

Abca1	5.0	4.8	ATP-binding cassette, sub-family A (ABC1), member 1
Atp1a2	-	2.7	Atp1a2 (ATPase, Na+/K+ transporting, alpha 2 polypeptide)
Pltp	2.3	-	Phospholipid transfer protein

Others

BC003940	2.0	-	Phosphotyrosyl phosphatase activator
Hrc	-	4.5	Histidine rich calcium binding protein
Mest	5.0	-	Mesoderm specific transcript
Sparc	-	4.1	Secreted acidic cysteine rich glycoprotein

S5c: Transcripts enriched in endocrine progenitors (Ngn3+/GFP+) vs. non-endocrine progenitor cells (Ngn3-/GFP-) at E13.5

Gene	FC wt cells	FC Pax4+ cells	Gene Title
Symbol			
Growth factors, receptors, and signaling molecules			
Ddr1	4.0	2.2	Discoidin domain receptor family, member 1
Mafb	3.5	-	v-maf musculoaponeurotic fibrosarcoma oncogene

Transcriptional regulators and other nuclear factors

Cbfa2t1h	11.7	9.2	CBFA2T1 identified gene homolog (human)
Cutl1	4.2	-	Cut-like 1 (Drosophila)

Cell surface, adhesion, matrix, cytoskeletal protein

App	6.4	-	Amyloid beta (A4) precursor protein
Vamp2	3.4	-	Vesicle-associated membrane protein 2

Hormones, proteases, and secretory apparatus

Chgb	16.2	-	Chromogranin B
Cpe	7.6	10.0	Carboxypeptidase E
Ctsf	2.5	-	Cathepsin F
Sprint1	2.7	3.1	Serine protease inhibitor, Kunitz type 1

Cell cycle associated genes

Npdc1	3.3	3.2	Neural proliferation, differentiation and control gene 1
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Others

Btg2	3.7	-	B-cell translocation gene 2, anti-proliferative
Galnt2	3.1	3.0	UDP-N-acetyl-alpha-D-galactosamine:poly-peptide N-acetylgalactosaminyltransferase 2
Pam	2.3	4.0	Peptidylglycine alpha-amidating monooxygenase
Prnp	4.9	8.4	Prion protein

S5d: Transcripts enriched in E7.5 endoderm compared to pancreatic tissue from other developmental stages

Gene	FC wt cells	FC Pax4+ cells	Gene Title
Symbol			

Growth factors, receptors, and signaling molecules

Kitl	6.7	4.8	Kit ligand
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Transcriptional regulators and other nuclear factors

Dab2	-	6.7	Disabled homolog 2 (Drosophila)
Foxa1	7.3	6.0	Forkhead box A1
Idb3	2.3	-	Inhibitor of DANN binding 3
Irx3	7.3	-	Iroquois related homeobox 3

S5e: Transcripts enriched in Pdx1+ cells compared to pancreatic tissue from other developmental stages

Gene FC wt cells FC Pax4+ cells Gene Title

Symbol

Growth factors, receptors, and signaling molecules

Dlk1	35.8	-	Delta-like 1 homolog (Drosophila)
Gas1	13.8	28.9	Growth arrest specific 1
Igfbp5	18.6	41.8	Insulin-like growth factor binding protein 5
Sfrp1	6.3	-	Secreted frizzled-related protein 1

Transcriptional regulators and other nuclear factors

Mfap2	5.7	5.4	Microfibrillar-associated protein 2
Meis1	17.6	20.2	Myeloid ecotropic viral integration site 1

Cell surface, adhesion, matrix, cytoskeletal protein

Mfap2	5.7	5.4	Microfibrillar-associated protein 2
Meis1	17.6	20.2	Myeloid ecotropic viral integration site 1
Col1a1	-	39.7	Procollagen, type I, alpha 1
Col1a2	-	46.3	Procollagen, type I, alpha 2
Col5a2	-	15.8	Procollagen, type V, alpha 2
Tnc	-	20.3	Tenascin C

Hormones, proteases, and secretory apparatus

Capn6	4.2	4.3	Calpain 6
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Others

Ptn	160.9	218.9	Pleiotrophin
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S5f: Transcripts enriched in Ngn3+ cells compared to pancreatic tissue from other developmental stages

Gene FC wt cells FC Pax4+ cells Gene Title

Symbol

Transcriptional regulators and other nuclear factors

Mafb	3.5	-	v-maf musculoaponeurotic fibrosarcoma oncogene
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Others

Ogn	45.2	55.3	Osteoglycin
Pik3r1	4.4	4.1	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1

S5g: Transcripts enriched in mature islets compared to pancreatic tissue of early stages

Gene FC wt cells FC Pax4+ cells Gene Title

Symbol

Growth factors, receptors, and signaling molecules

Inha	2.0	-	Inhibin alpha
Thra	-	5.4	Thyroid hormone receptor alpha

Transcriptional regulators and other nuclear factors

STAT5B	2.0	-	Mus musculus partial STAT5B gene, exons 6-9
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**Hormones, proteases, and secretory
apparatus**

SgII

8.7

-

Mus musculus SgII gene for secretogranin II, exon 2

Suppl. Table S6: Transcripts two- or more-fold up-regulated in wt and/or Pax4+ cells (0d vs. 5+16d) compared with Pdx1 (E10.5)- and Ngn3 (E13.5)- negative cells *in vivo* (according to Gu et al., 2004)

S6a: Transcripts upregulated in ES-derived cells (0d vs. 5+16d) compared to those of Pdx1-negative cells (E10.5)

Gene Symbol	FC wt cells	FC Pax4+ cells	Gene Title
Growth factors, receptors, and signaling molecules			
Basp1	2.5	2.5	Brain abundant, membrane attached signal protein 1
Bmp1	-	3.7	Bone morphogenetic protein 1
Cmkor1	14.1	9.0	Chemokine orphan receptor 1
Dlk1	35.8	-	Delta-like 1 homolog (Drosophila)
Il11ra1//Il11ra2	3.4	3.9	Interleukin 11 receptor, alpha chain 1
Nr2f1	48.0	52.4	Nuclear receptor subfamily 2, group F, member 1
Pdgfra	5.2	-	Platelet derived growth factor receptor, alpha
Snai2	-	6.0	Snail homolog 2 (Drosophila)
Sfrp1	6.3	-	Secreted frizzled-related protein 1
Sfrp2	8.7	-	Secreted frizzled-related protein 2
Tgfb1	-	10.6	Transforming growth factor, beta induced, 68 kDa
Transcriptional regulators and other nuclear factors			
Cutl1	4.2	-	Cut-like 1 (Drosophila)
Dab2	-	6.7	Disabled homolog 2 (Drosophila)
Foxa1	7.3	6.0	Forkhead box A1
Lmo4	2.1	2.7	LIM domain only 4
Pbx1	5.2	4.5	Pre B-cell leukaemia transcription factor 1
Tcf21	10.8	11.0	Transcription factor 21
Zfhx1a	-	4.4	Zinc finger homeobox 1a
Cell surface, adhesion, matrix, cytoskeletal protein			
Bgn	-	22.0	Biglycan
Cd81	-	2.1	CD 81 antigen
Col1a2	-	46.3	Procollagen, type I, alpha 2
Col5a1	-	15.8	Procollagen, type V, alpha 1
Col5a2	5.2	7.2	Procollagen, type V, alpha 2
Cdh11	13.4	11.7	Cadherin 11
Fbn2	-	16.5	Fibrillin 2
Flna	18.2	-	Filamin, alpha
Efnb1	4.8	5.2	Ephrin B1
Efnb2	2.2	2.9	Ephrin B2
Eln	-	3.9	elastin
Itm2a	21.8	-	Integral membrane protein 2A
Nid1	2.3	-	Nidogen 1
Tnc	-	20.3	Tenascin C
Tubb2	3.8	-	Tubulin, beta 2
Cell cycle associated genes			
Ccnd2	9.0	21.3	Cyclin D2
Others			
Adcy6	2.1	2.6	Adenylyl cyclase 6
Plat	5.8	16.0	Plasminogen activator, tissue
Ppic	3.5	5.1	Peptidyl isomerase C

Smoc2	-	4.0	SPARC related modular calcium binding 2
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S6b: Transcripts up-regulated in ES-derived cells (0d vs. 5+16d) compared to those present or enriched in Ngn3-negative cells vs. Ngn3-positive cells (E13.5)

Gene FC wt cells FC Pax4+ cells Gene Title

Symbol

Growth factors, receptors, and signaling molecules

Basp1	2.5	2.5	Brain abundant, membrane attached signal protein 1
Epha3	37.9	32.2	Eph receptor A3
Igfbp5	18.6	41.8	Insulin-like growth factor binding protein 5
Igfbp4	7.8	11.1	Insulin-like growth factor binding protein 4
Il11ra1//Il11ra2	3.4	3.9	Interleukin 11 receptor, alpha chain 2
Igf1	18.0	32.4	Insulin-like growth factor 1
Igf2	10.5	14.1	Insulin-like growth factor 2
Notch1	2.5	-	Notch gene homolog 1, (Drosophila)
Nr2f2	17.0	32.8	Nuclear receptor subfamily 2, group F, member 2
Sfrp1	6.3	-	Secreted frizzled-related protein 1
Sfrp2	8.7	-	Secreted frizzled-related protein 2
Snai2	-	6.0	Snail homolog 2 (Drosophila)
Tgfb1	-	10.6	Transforming growth factor, beta induced, 68 kDa

Transcriptional regulators and other nuclear factors

Lmo4	2.1	2.7	LIM domain only 4
Nfib	22.5	27.7	Nuclear factor I/B
Tbx2	4.5	-	T-box 2
Tcf21	10.8	11.0	Transcription factor 21
Zfhx1a	-	4.4	Zinc finger homeobox 1a
Zfp275	2.1	-	Zinc finger protein 275
Zfp36l1	2.7	3.0	Zinc finger protein 36, C3H type-like 1
Zfp422	3.4	-	Zinc finger protein 422

Cell surface, adhesion, matrix, cytoskeletal protein

Col1a1	5.6	39.7	Procollagen, type I, alpha 1
Col1a2	-	46.3	Procollagen, type I, alpha 2
Col3a1	102.5	240.1	Procollagen, type III, alpha 1
Col5a1	-	15.8	Procollagen, type V, alpha 1
Col5a2	5.2	7.2	Procollagen, type V, alpha 2
Col6a3	-	8.6	Procollagen, type VI, alpha 3
Cspg2	-	3.3	Chondroitin sulfate proteoglycan 2
Dcn	30.8	70.0	Decorin
Eln	-	3.9	elastin
Fbn1	-	14.7	Fibrillin 1
Islr	28.3	44.2	Immunoglobulin superfamily containing leucine-rich repeat
Itm2a	21.8	-	Integral membrane protein 2A
Lama4	-	8.5	Laminin, alpha 4
Lum	29.2	50.2	Lumican
Mfap2	5.7	5.4	Microfibrillar-associated protein 2
Nrp	10.2	35.9	Neuropilin

Cell cycle associated genes

Cdkn1c	5.4	-	Cyclin-dependent kinase inhibitor 1C (P57)
Cks	2.6	2.3	CDC28 protein kinase 1
Gas1	13.8	28.9	Growth arrest specific 1

Hormones, proteases, and secretory apparatus

Capn6 4.2 4.3 Calpain 6

Others

Enpp5	4.1	2.6	Ectonucleotide pyrophosphatase/phosphodiesterase 5
Hic1	2.7	3.5	Hypermethylated in cancer 1
Lsp1	-	3.4	Lymphocyte specific 1
Meis1	17.6	20.2	Myeloid ecotropic viral integration site 1
Ppic	3.5	5.1	Peptidyl isomerase C
Pygb	3.3	2.3	Brain glycogen phosphorylase
Qk	5.0	7.0	Quaking
Sparc	-	4.1	Secreted acidic cysteine rich glycoprotein