

Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Signal transduction</i>					
1387395_at	NM_017161	1	<i>Adora2b</i>	Adenosine a2b receptor	Activates adenylyl cyclase
1383205_at	BI288833	1	<i>Dact2</i>	Dapper, antagonist of β -catenin, homolog 2	Negatively regulates the Nodal signaling pathway
1370941_at	AI232379	1	<i>Pdgfra</i>	Platelet-derived growth factor receptor, α	Mitogenesis, wound healing & tissue repair
1373847_at	AW435343	1	<i>Tm4sf1</i>	Transmembrane 4 I six family 1	Regulation of cell development, activation, growth & motility
1371785_at	BI303379	1	<i>Tnfrsf12a</i>	Tumor necrosis factor receptor superfamily, 12a	Angiogenesis, endothelial cell proliferation & cell adhesion
1368868_at	NM_057103	2	<i>*Ikap12</i>	A kinase anchor protein 12	Anchoring protein in PKA signaling pathway
1368869_at	BG663107	2	<i>*Ikap12</i>	A kinase anchor protein 12	Anchoring protein in PKA signaling pathway
1374539_at	AA850290	2	<i>Atp10d</i>	Atpase, class v, type 10d	Phospholipid translocation within membranes
1387083_at	NM_017129	2	<i>Ctfl</i>	Cardiotrophin 1	Angiogenesis & anti-inflammatory cytokine properties
1373114_at	AI408442	2	<i>*Dx4</i>	Deltex homolog 4	Regulator of Notch signaling & cell-cell communication
1377982_at	AW915930	2	<i>*Dx4</i>	Deltex homolog 4	Regulator of Notch signaling & cell-cell communication
1378342_at	BF284819	2	<i>*Ednra</i>	Endothelin receptor type a	Vasoconstriction & cell proliferation
1385529_at	BF411402	2	<i>Fam3b</i>	Family with sequence similarity 3, b	Inhibits basal insulin secretion
1389602_at	BF396759	2	<i>Fam3c</i>	Family with sequence similarity 3, c	A cytokine involved in EMT & tumor formation in epithelial cells
1370086_at	NM_012559	2	<i>Fgg</i>	Fibrinogen γ chain	Platelet aggregation & blood clotting
1370843_at	BM391912	2	<i>Gng8</i>	Guanine nucleotide binding protein, γ 8	Modulator or transducer in various transmembrane signaling
1368408_at	NM_030829	2	<i>Grk5</i>	G protein-coupled receptor kinase 5	Regulation of the motility of polymorphonuclear leukocytes
1377163_at	BM385741	2	<i>Inhbb</i>	Inhibin, β b	Inhibits cellular proliferation
1373036_at	BF283621	2	<i>Iqgap2</i>	Iq motif containing gtpase activating protein 2	Regulation of cell morphology & motility
1368486_at	NM_032074	2	<i>Irs3</i>	Insulin receptor substrate 3	Insulin signal transduction
1374065_at	BG378920	2	<i>Met/Hgf</i>	Met proto-oncogene	HGF receptor involved in cell proliferation & survival
1368795_at	NM_023100	2	<i>Nmur1</i>	Neuromedin u receptor 1	Vasoconstriction, SM contraction
1385148_at	BM391148	2	<i>*P2rx1</i>	Purinergic receptor p2x, ligand-gated ion channel, 1	Calcium ion transport & vasoconstriction
1388512_at	BM391512	2	<i>Pde6d</i>	Phosphodiesterase 6d, cgmp-specific, rod, δ	Cellular levels, localization & duration of action of cAMP & cGMP
1370642_s_at	BM389426	2	<i>Pdgfrb</i>	Platelet-derived growth factor receptor, β	Vascular & tissue remodeling
1387459_at	NM_012627	2	<i>Pkib</i>	PK inhibitor β	Potent competitive inhibitor of cAMP-dependent PK
1373631_at	BF284067	2	<i>Rap1gap</i>	Rap1 gtpase activating protein	GTPase activator for the nuclear Ras-related RAP-1A
1388686_at	AI170193	2	<i>Rcan1</i>	Regulator of calcineurin 1	Inhibits calcineurin-dependent responses
1399027_at	AI408053	2	<i>Rhoa</i>	Ras homolog gene family, a	Assembly of focal adhesions & actin stress fibers

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<i>Signal transduction</i>					
1381533_at	AI144754	2	<i>Rnd1</i>	Rho family gtpase 1	Rearrangements of the actin cytoskeleton
1387294_at	NM_054011	2	<i>Sh3bp5</i>	Sh3-domain binding protein 5	Inhibits cellular proliferation
1367726_at	NM_031134	2	<i>*Thra</i>	Thyroid hormone receptor, α	Growth & metabolism
1369484_at	NM_031590	2	<i>Wsp2</i>	Wnt1 inducible signaling pathway protein 2	Wnt signaling
1387219_at	NM_012715	2	<i>Adm</i>	Adrenomedullin	Potent hypotensive & vasodilatory agent
1378010_at	BG662522	3	<i>Acrv2a</i>	Activin a receptor, type iia	Activates SMAD transcriptional regulators
1367978_at	NM_031007	3	<i>Adcy2</i>	Adenylate cyclase 2	Membrane-bound, calmodulin-insensitive adenylyl cyclase
1368300_at	NM_055294	3	<i>Adora2a</i>	Adenosine a2a receptor	Activates adenylyl cyclase
1389496_at	BI3400893	3	<i>Akap7</i>	A kinase anchor protein 7	PKA signaling pathway
1388527_at	BI283685	3	<i>Atoxr1</i>	Anthrax toxin receptor 1	Cell adhesion & migration
1389017_at	AI013888	3	<i>Atoxr2</i>	Anthrax toxin receptor 2	Cell adhesion & migration
1389651_at	AI177057	3	<i>Apln</i>	Apelin	Control of body fluid homeostasis
1373156_at	AI385330	3	<i>Armcx2</i>	Armadillo repeat containing, x-linked 2	Wnt signaling
1398874_at	BI274345	3	<i>Axin10</i>	Axin 10	Regulation of intracellular glycosylation level & homeostasis
1388802_at	AI579422	3	<i>Bex1</i>	Brain expressed, x-linked 1	Signaling adapter molecule in p75NTR/NGFR signaling
1383641_at	BF414702	3	<i>*Ednra</i>	Endothelin receptor type a	Vasoconstriction & cell proliferation
1390638_at	AI072459	3	<i>Epha4</i>	Eph receptor a4	Cell adhesion, migration & survival
1374209_at	AI010575	3	<i>Erlin2</i>	Er lipid raft associated 2	ITPPI degradation by the ERAD pathway
1374643_at	BF288461	3	<i>Fat4</i>	Fat tumor suppressor homolog 4	Regulation of cell-cell interactions & cell polarity
1393314_at	BI289840	3	<i>Fgf1</i>	Fibroblast growth factor 1	Mitogenesis, tissue repair & angiogenesis
1373882_at	AI170324	3	<i>Fgf3</i>	C-fos induced growth factor	Angiogenesis & lymphangiogenesis
1378526_at	AI012423	3	<i>Gimap6</i>	Gtpase, imap family 6	Regulation of apoptosis of T cells
1367902_at	NM_022396	3	<i>Gng11</i>	Guanine nucleotide binding protein, γ 11	Modulator of transmembrane signaling systems
1394919_at	BF284043	3	<i>Hgf</i>	Hepatocyte growth factor	Mitogenesis, cell motility, matrix invasion & angiogenesis
1376957_at	AI178922	3	<i>Lzic</i>	Leucine zipper & ctmbip1 domain containing	Wnt signaling regulation
1367760_at	D13341	3	<i>Map2k1</i>	Mitogen-activated PK kinase 1	Cell proliferation & differentiation
1369178_a_at	AF231010	3	<i>*P2rx1</i>	Purinergic receptor p2x, ligand-gated ion channel, 1	Calcium ion transport & vasoconstriction
1379375_at	BE100812	3	<i>Pdgfra</i>	Platelet-derived growth factor α	Mitogenesis, wound healing & tissue repair
1370203_at	AI4408972	3	<i>Pgap2</i>	Post-gpi attachment to proteins 2	Lipid remodeling

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1376762_at	BE112933	3	<i>Plekha1</i>	Pleckstrin homology domain containing, family a 1	Binds to phosphatidylinositol-3,4-diphosphate
1389341_at	AI102248	3	<i>Pknox1</i>	Plexin d1	Vascular development & angiogenesis
1386945_a_at	NM_031976	3	<i>Prkab1</i>	PK, amp-activated, β 1 non-catalytic subunit	Regulatory subunit of AMPK, a monitor of cellular energy status
1373047_at	BF284699	3	<i>Prkci</i>	PKC, iota	Cell polarity & tight junction formation
1390159_at	AA819332	3	<i>Rasgrp3</i>	Ras guanyl releasing protein 3	Guanine nucleotide exchange factor for Ras & Rap1
1373934_at	AI178214	3	<i>Rassf3</i>	Ras association domain family 3	RAS effector protein
1381969_at	AA998296	3	<i>Rbpj</i>	Recombination signal binding protein J	Notch signaling, cell-cell interactions
1385540_at	A1044916	3	<i>Rspo1</i>	R-spondin homolog	Cell proliferation & epithelial healing
1377198_at	AA891732	3	<i>*Skap2</i>	Src kinase associated phosphoprotein 2	Src signaling & integrin activation
1369979_at	NM_130413	3	<i>*Skap2</i>	Src kinase associated phosphoprotein 2	Src signaling & integrin activation
1370691_a_at	M18028	3	<i>*Thra</i>	Thyroid hormone receptor, α	Growth & metabolism
1383805_at	BG666454	3	<i>*Tnik</i>	Traf2 & nek interacting kinase	Activator of Wnt signaling
1380100_at	AW526268	3	<i>*Tnik</i>	Traf2 & nek interacting kinase	Activator of Wnt signaling
1396144_at	BF560978	3	<i>*Tnik</i>	Traf2 & nek interacting kinase	Activator of Wnt signaling
1388769_at	BI287266	3	<i>Traf7</i>	Tnf receptor-associated factor 7	Tnf signaling & NFkB activation
1373399_at	BI291997	3	<i>Wdr6</i>	Wd repeat domain 6	Enhances the STK11-induced cell growth suppression
1394361_a_at	BF556985	3	<i>*Wnt2</i>	Wingless-type mmtv integration site family 2	Wnt signaling, cell proliferation & differentiation
1386807_at	BF556985	3	<i>*Wnt2</i>	Wingless-type mmtv integration site family 2	Wnt signaling, cell proliferation & differentiation
1393927_at	AA997477	3	<i>*Wnt2</i>	Wingless-type mmtv integration site family 2	Wnt signaling, cell proliferation & differentiation
1390727_at	BF398618	3	<i>Ehna5</i>	Ephrin-a5	Receptor protein-tyrosine kinases involved in organ development
1391428_at	AI639162	4	<i>Angptl</i>	Angiopoietin 1	Vascular development & angiogenesis
1381018_a_at	BG378709	4	<i>*Asap1</i>	Arfgap with sh3 domain, ankyrin repeat & ph domain 1	Differentiation of fibroblasts & cytoskeleton remodeling
1390441_at	AW527409	4	<i>*Asap1</i>	Arfgap with sh3 domain, ankyrin repeat & ph domain 1	Differentiation of fibroblasts & cytoskeleton remodeling
1368202_a_at	NM_024159	4	<i>Dab2</i>	Disabled homolog 2	Component of the CSF-1 signal transduction pathway
1393335_at	BF418373	4	<i>Egfl6</i>	Egf-llke-domain, multiple 6	Integrin binding & ECM assembly
1373829_at	AI412658	4	<i>Fgfr2</i>	Fibroblast growth factor receptor 2	Mitogenesis, tissue repair & angiogenesis
1377113_at	BF415786	4	<i>Fhl1</i>	Fms-related tyrosine kinase 1	Vascular development & angiogenesis
1393883_at	AI556852	4	<i>Fhl4</i>	Fms-related tyrosine kinase 4	Receptor for VEGFC
1373683_at	AI230396	4	<i>Fyn</i>	Fyn oncogene related to src, fgr, yes	Regulation of intracellular calcium levels & cell cycle

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<i>Signal transduction</i>					
1383047_at	AA957335	4	<i>Gas6</i>	Growth arrest-specific 6	Thrombosis & cell adhesion, migration & proliferation
1375692_at	AI229025	4	<i>Mapk1</i>	Mitogen-activated PK 1	Integration point for multiple biochemical signals
1393356_at	AA818098	4	<i>Pde5a</i>	Phosphodiesterase 5a, cgrp-specific	Regulating the intracellular concentration of cyclic nucleotides
1386145_at	AI236118	4	<i>Plscr4</i>	Phospholipid scramblase 4	Initiation of fibrin clot formation
1383310_at	AI030892	4	<i>Ppp6c</i>	Protein phosphatase 6, catalytic subunit	Regulation of cell cycle progression
1375011_at	AA818819	4	<i>Ptch1</i>	Patched homolog 1	Hedgehog signaling & lung development
1376619_at	AI412803	4	<i>*Piprd</i>	Protein tyrosine phosphatase, receptor type, d	Cell growth, differentiation and mitotic cycle
1374591_at	AI409042	4	<i>*Piprd</i>	Protein tyrosine phosphatase, receptor type, d	Cell growth, differentiation and mitotic cycle
1387074_at	AY043246	4	<i>*Rgs2</i>	Regulator of g-protein signaling 2, 24kda	Increases the GTPase activity of G protein α subunits
1395986_at	BF391439	4	<i>*Slit2</i>	Slit homolog 2	Angiogenesis & cell migration
1382685_at	AI101660	4	<i>*Slit2</i>	Slit homolog 2	Angiogenesis & cell migration
1376880_at	AI639447	4	<i>Tbk1</i>	Tank-binding kinase 1	Mediates Nf κ B activation
1389780_at	AI009783	4	<i>Tjpi</i>	Tissue factor pathway inhibitor	Inhibition of tissue factor-dependent pathway of blood coagulation
1383368_at	BF550060	4	<i>*Tor1aip2</i>	Torsin a interacting protein 2	Re-targets TorsinA to the nuclear envelope
1374798_at	AA924151	4	<i>*Tor1aip2</i>	Torsin a interacting protein 2	Re-targets TorsinA to the nuclear envelope
1397634_at	BE098186	5	<i>Anks1a</i>	Ankyrin repeat & sterile α motif domain containing 1a	Adaptor protein for receptors like EGFR, PDGFR & EphA8
1384260_at	BE095699	5	<i>Frat2</i>	Frequently rearranged in advanced t-cell lymphomas 2	Positively regulates the Wnt signaling
1376909_at	AI412866	5	<i>Ras10a</i>	Ras-like, family 10, a	Potential tumor suppressor
1368144_at	AF321837	5	<i>*Rgs2</i>	Regulator of g-protein signaling 2, 24kda	Increases the GTPase activity of G protein α subunits
1369725_at	NM_020101	6	<i>Adap2</i>	Arfgap with dual ph domains 2	GTPase-activating protein for the ADP ribosylation factor family
1387128_at	NM_130779	6	<i>Adcy3</i>	Adenylate cyclase 3	Modulation of intracellular cAMP concentration
1369115_at	AY057895	6	<i>Adrb2</i>	Adrenergic, β -2-, receptor, surface	Catecholamine-induced activation of adenylate cyclase
1378666_at	BE108537	6	<i>Arhgap21</i>	Rho gtpase activating protein 21	GTPase-activating protein for CDC42
1373403_at	AI230625	6	<i>C8orf4</i>	Chromosome 8 open reading frame 4	Positive regulator of Wnt signaling
1368025_at	NM_080906	6	<i>Ddit4</i>	Dna-damage-inducible transcript 4	Regulation of FRAP1 pathway & inhibits cell growth
1368673_at	NM_031764	6	<i>Daf2</i>	Discoidin domain receptor tyrosine kinase 2	Tyrosine kinase receptor for collagen mediates fibroblast migration
1390127_at	BI296216	6	<i>Dixdc1</i>	Dix domain containing 1	Positive effector of the Wnt signaling
1376208_at	BF419406	6	<i>Dlg2</i>	Discs, large homolog 2	Regulates surface expression of NMDA receptors
1383894_at	BI289486	6	<i>Fnrip1</i>	Follistatin interacting protein 1	Menergy &/or nutrient sensing

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<i>Signal transduction</i>					
1368691_at	M85036	6	<i>Gria3</i>	Glutamate receptor, ionotropic, ampa 3	Opening of cat ion channels
1371091_at	BE118080	6	<i>Irs2</i>	Insulin receptor substrate 2	Insulin signal transduction
1383169_at	BF563716	6	* <i>Lifr</i>	Leukemia inhibitory factor receptor α	Cell proliferation, differentiation & survival
1369228_at	NM_031048	6	* <i>Lifr</i>	Leukemia inhibitory factor receptor α	Cell proliferation, differentiation & survival
1373178_at	AA945183	6	* <i>Lifr</i>	Leukemia inhibitory factor receptor α	Cell proliferation, differentiation & survival
1395957_at	AW52142	6	* <i>Lifr</i>	Leukemia inhibitory factor receptor α	Cell proliferation, differentiation & survival
1395413_at	BE116600	6	<i>Lrp6</i>	Low density lipoprotein receptor-related protein 6	Wnt signaling, coreceptor for Wnt
1380926_at	AA957632	6	<i>Map3k2</i>	Mitogen-activated PK kinase kinase 2	Regulation of JNK & ERK5 pathways
1371883_at	BG376037	6	<i>Mnd</i>	Monocyte to macrophage differentiation-associated	Dynamics of lysosomal membranes
1384904_at	AW527233	6	<i>Nato2</i>	Neuropilin & tolloid -like 2	Internalization of clathrin coated pits during endocytosis
1379433_at	A1059449	6	<i>Plk3c2a</i>	Phosphoinositide-3-kinase, class 2, α	Phosphorylation of PtdIns, PtdIns4P & PtdInsP2
1391187_at	B1303019	6	<i>Ppl</i>	Periplakin	Localization signal in PKB/AKT-mediated signaling
1395826_at	BG664036	6	<i>Ppp2r5e</i>	Protein phosphatase 2, regulatory subunit b', ϵ	Negative control of cell growth & division
1378415_at	BME86879	6	* <i>Pkar2a</i>	PK, camp-dependent, regulatory, type ii, α	Regulate protein transport from endosomes to the Golgi apparatus
1395246_at	A1104783	6	* <i>Pkar2a</i>	PK, camp-dependent, regulatory, type ii, α	Regulate protein transport from endosomes to the Golgi apparatus
1390731_at	B1288533	6	<i>Rasgef1b</i>	Rasgef domain family, 1b	Guanine nucleotide exchange factor for Ras family proteins
1383726_at	BG669800	6	<i>Rgs7bp</i>	Regulator of g-protein signaling 7 binding protein	Regulator of G protein-coupled receptor signaling
1389632_at	AA799294	6	<i>Rhoobt1</i>	Rho-related bib domain containing 1	GTPase-mediated signaling & organization of the actin filament
1382632_at	A1069991	6	<i>Robo2</i>	Roundabout, axon guidance receptor, homolog 2	Receptor for SH2, cell migration
1398582_at	A1045780	6	<i>Rps6ka5</i>	Ribosomal protein s6 kinase, 90kda, 5	Mitogen- & stress-induced phosphorylation of HMG14
1397335_at	AW532165	6	<i>Sema3d</i>	Sema domain, immunoglobulin domain , 3d	Binds to neuropilin
1373092_at	BE109587	6	<i>Tgfb3</i>	Transforming growth factor, β receptor 3	Facilitating Tg β binding to its signaling receptors
1387561_at	NM_012685	6	<i>Vipr1</i>	Vasoactive intestinal peptide receptor 1	Smooth muscle relaxation & fluid homeostasis
1370048_at	NM_053936	6	<i>Lpar1</i>	Lysophosphatidic acid receptor 1	Cell proliferation, platelet aggregation & SM contraction
1372752_at	BF282632	6	<i>Tspan4</i>	Tetraspanin 4	Cell development, activation & motility
1389912_at	B1289922	6	<i>Ensa</i>	Endosulfine α	Endogenous ligand for sulfonylurea receptor
1369871_at	NM_017123	7	<i>Areg</i>	Amphiregulin	Fibroblast proliferation & mitogenesis
1367631_at	NM_022266	7	<i>Ctgf</i>	Connective tissue growth factor	Connective tissue mitotractant
1393634_at	AW530086	7	<i>Nrg4</i>	Neuregulin 4	Activation of type I growth factor receptors

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1390274_at	AI170313	7	* <i>Ptxn2</i>	Plexin a2	Coreceptor for SEMA3A, Cytoskeleton remodeling
1392157_at	BE106313	7	* <i>Ptxn2</i>	Plexin a2	Coreceptor for SEMA3A, Cytoskeleton remodeling
1375562_at	BF408460	7	<i>Ptprg</i>	Protein tyrosine phosphatase, receptor type, g	Cell growth, differentiation and mitotic cycle
1368596_at	NM_021693	7	<i>Sik1</i>	Salt-inducible kinase 1	Inhibits CREB activity & represses the CREB-specific coactivators
1372645_at	AI233095	UC	<i>Par1</i>	Presenilin associated, rhomboid-like	signal transduction via regulated intramembrane proteolysis
1371014_at	BE097028	UC	<i>Ptch1</i>	Phospholipase c, β 1	Formation of inositol 1,4,5-trisphosphate & diacylglycerol
1384355_at	BG666418	UC	* <i>Ptxn2</i>	Plexin a2	Coreceptor for SEMA3A, Cytoskeleton remodeling
1383452_at	BG670461	UC	<i>Ppp1r7</i>	Protein phosphatase 1, regulatory subunit 7	Regulatory subunit of protein phosphatase 1
1380811_at	BE105756	UC	<i>Pppn4</i>	Protein tyrosine phosphatase, non-receptor type 4	Junction between the membrane & the cytoskeleton
<i>Transcription/translation regulation</i>					
1367624_at	NM_024403	1	<i>Atf4</i>	Activating transcription factor 4	Transcriptional activator that binds to cAMP response element
1392640_at	AI412155	1	<i>Cry1</i>	Cryptochrome 1	Regulator of the circadian feedback loop
1371104_at	AF286470	1	* <i>Srebf1</i>	Sterol regulatory element binding transcription factor 1	Transcriptional activator required for lipid homeostasis
1398799_at	NM_053974	1	<i>Eif4e</i>	Eukaryotic translation initiation factor 4e	mRNA cap recognition & initiation of protein synthesis
1370510_a_at	AB012600	2	<i>Arntl/Bmal1</i>	Aryl hydrocarbon receptor nuclear translocator-like	Circadian rhythm, E box element binding
1374575_at	BI304123	2	<i>Creb3l1</i>	Camp responsive element binding protein 3-like 1	Transcriptional regulation during endoplasmic reticulum stress
1389404_at	AI008883	2	<i>Foxo1</i>	Forkhead box s1	Transcriptional repressor for FASLG, FOXO3 & FOXO4 promoters
1392203_at	AI029834	2	<i>Hoxb2</i>	Homeobox b2	Sequence-specific transcription factor during development
1371832_at	AW526333	2	<i>Leo1</i>	Leo1, paf1/rna polymerase2 complex component, homolog	Involved in transcription initiation & elongation
1376632_at	AI602501	2	<i>Lmcd1</i>	Lim & cysteine-rich domains 1	activation of T cells signaling
1378482_at	AI411065	2	<i>Mdfic</i>	Myod family inhibitor domain containing	Regulation of the WNT & JNK signaling
1368488_at	NM_053727	2	<i>Nfil3</i>	Nuclear factor, interleukin 3 regulated	Transcription regulation, D box element binding
1383439_at	BI278550	2	<i>Npas2</i>	Neuronal pas domain protein 2	Circadian rhythm, E box element binding
1374078_at	BI295133	2	<i>Phf21a</i>	Phd finger protein 21a	Histone deacetylaseof repressor element-1
1389509_at	BE097016	2	<i>Sup130</i>	Sin3a-associated protein, 130kda	Subunit of the HDAC1-dependent SIN3A corepressor complex
1392990_at	AI031004	2	<i>Sox17</i>	Sry -box 17	SOX transcription factor
1373860_at	BI297183	2	<i>Sox4</i>	Sry -box 4	Transcriptional activator to the T-cell enhancer motif
1388426_at	BF398848	2	* <i>Srebf1</i>	Sterol regulatory element binding transcription factor 1	Transcriptional activator required for lipid homeostasis
1392966_at	BF396256	2	<i>Zfp410</i>	Zinc finger protein 410	Transcription factor for matrix-remodeling genes

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<i>Transcription/translation regulation</i>					
1368542_at	NM_053583	2	<i>Zfp423</i>	Zinc finger protein 423	Transcriptional regulation of BMP signaling
1372480_at	BE117893	2	<i>Zfp462</i>	Zinc finger protein 462	Zinc finger nuclear factor involved in cell division
1392913_at	AA964151	2	<i>Znf710</i>	Zinc finger protein 710	Zinc finger transcriptional factor
1377454_at	AW524041	3	<i>Zhbx9</i>	Zinc finger & btb domain containing 9	Zinc finger transcription factor
1373315_at	AI176425	3	<i>Arnt2</i>	Aryl-hydrocarbon receptor nuclear translocator 2	bHLH-PAS transcription factor, xenobiotics metabolism
1377731_at	AI454091	3	<i>Cld</i>	Cld nuclear receptor co-repressor	Potentiates transcriptional repression by NR1D1 & THRB
1389289_at	AW534728	3	<i>Evsr1</i>	Ewing sarcoma breakpoint region 1	Transcriptional repressor & tumorigenesis
1382390_at	AI177572	3	<i>Fubp3</i>	Far upstream element binding protein 3	Interact with the far-upstream element
1379550_a_at	BF290483	3	<i>Gtf2rtd1</i>	Gtf2l repeat domain containing 1	Transcription regulator involved in cell-cycle progression
1369060_a_at	NM_053448	3	<i>Hdac3</i>	Histone deacetylase 3	Epigenetic transcriptional regulation of cell cycle progression
1370975_at	AI172079	3	<i>Kdm3a</i>	Lysine-specific demethylase 3a	Histone demethylase & hormone-dependent transcription
1382152_at	AI234336	3	<i>Kdm5b</i>	Lysine-specific demethylase 5b	Histone demethylase & corepressor for FOXG1B & PAX9
1374406_at	AA925512	3	<i>Khdac2</i>	Keich domain containing 2	Represses CREB3-mediated transcription
1383863_at	BF288303	3	<i>Lmo2</i>	Lim domain only 2	Transcription factor regulating angiogenesis
1390445_at	BE114154	3	<i>Mbd1</i>	Mbt domain containing 1	Transcriptional Repression by chromatin remodeling
1391474_at	AA858511	3	<i>Med14</i>	Mediator complex subunit 14	Coactivator of RNA polymerase II-dependent gene expression
1383237_at	BE098240	3	<i>Myonin</i>	Myoneurin	BTB/POZ-ZF transcription factor
1372772_at	BM385098	3	<i>Nfat5</i>	Nuclear factor of activated T-cells 5, tonicity-responsive	Regulation of gene expression induced by osmotic stress
1383064_at	AI137878	3	<i>Pbx1</i>	Pre-b-cell leukemia homeobox 1	Transcriptional activator of PF4
1374032_at	AA998886	3	<i>Phf12</i>	Phd finger protein 12	Histone deacetylase & transcription repressor
1390221_at	BM385216	3	<i>Prdm1</i>	Pr domain containing 1, with znf domain	Repressor of β -interferon gene expression.
1397343_at	BE113258	3	<i>Prdm16</i>	Pr domain containing 16	Transcriptional repressor of TGF- β signaling
1383349_at	BE115594	3	<i>Rfx5</i>	Regulatory factor x, 5	Transcription activation from class II MHC promoters
1379626_at	AA946353	3	<i>Satb1</i>	Satb homeobox 1	Global chromatin organizer & transcription factor
1383806_at	BF556825	3	<i>Smarca1</i>	Swi/snf related, actin dependent regulator of chromatin e1	Component of the chromatin remodeling complex SWI/SNF
1372938_at	AI575671	3	<i>*Smorce1</i>	Swi/snf related, actin dependent regulator of chromatin e2	Component of the chromatin remodeling complex SWI/SNF
1373808_at	BF417211	3	<i>*Tead1</i>	Tea domain family 1	Transcription factor that binds to SPH & GT-1C "enhancers"
1389287_at	BI279573	3	<i>*Tead1</i>	Tea domain family 1	Transcription factor that binds to SPH & GT-1C "enhancers"
1379439_at	AA850609	3	<i>Zhbx44</i>	Zinc finger & btb domain containing 44	Zinc finger transcription factor

* Genes represented by multiple probe sets

Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Transcription/translation regulation</i>					
1374189_at	BG668883	3	<i>Zfp219</i>	Zinc finger protein 219	Zinc finger transcription factor involved in development
1391255_at	BE110035	3	<i>Zmynd15</i>	Zinc finger, mynd-type containing 15	Histone deacetylase-dependent transcriptional repressor
1372346_at	AI230729	3	<i>Znf513</i>	Zinc finger protein 513	Zinc finger transcription factor
1372193_at	AI408713	3	<i>Impact</i>	Imprinted & ancient	Translation regulation under amino acid starvation
1373477_at	BM1390306	3	<i>Mtph19</i>	Mitochondrial ribosomal protein I19	Protein synthesis within the mitochondrion
1371859_at	D86655	3	<i>Poldip3</i>	Polymerase δ interacting protein 3	Regulation of translation
1373364_at	BI294767	3	<i>Ejfg3</i>	Eukaryotic translation initiation factor 4 γ , 3	Recruitment of mRNA to the ribosome
1373287_at	BE113298	4	<i>Atoh8</i>	Atonal homolog 8	Transcription factor involved in cell differentiation
1367602_at	AI013390	4	<i>Cited2</i>	Chp/p300-interacting transactivator, 2	Interferes with binding of transcription factors HIF-1 α & STAT2
1383447_at	AI101323	4	<i>Etv5</i>	Ets variant 5	Surfactant C transcription & lung development
1382647_at	BF290662	4	<i>Eya4</i>	Eyes absent homolog 4	Transcription regulation during organogenesis
1379405_at	AI235642	4	<i>Grhl1</i>	Glucocorticoid receptor dna binding factor 1	Represses transcription of the glucocorticoid receptor
1370816_at	M25804	4	<i>Nr1d1</i>	Nuclear receptor subfamily 1, group d, 1	Circadian rhythm, Nuclear hormone receptor
1382141_at	BI291928	4	<i>Seah1</i>	Set domain, bifurcated 1	Histone methyltransferase
1389340_at	BI294227	4	<i>Zfp318</i>	Zinc finger protein 318	Repressed AR-mediated transcriptional activation
1380810_at	BE102637	4	<i>Zfp40</i>	Zinc finger protein 689	Zinc finger transcriptional factor
1393640_at	BF542956	4	<i>Zfp689</i>	Rna binding motif protein 3	Zinc finger transcriptional factor
1371583_at	AI598399	4	<i>Rbm3</i>	Hmg-box transcription factor 1	Phosphorylation of translation initiation factors
1368549_at	NM_013221	5	<i>Hbp1</i>	Hmg-box transcription factor 1	Transcriptional repressor regulating Wnt pathway
1371890_at	AI172033	5	<i>Rere</i>	Arginine-glutamic acid dipeptide repeats	Transcriptional repressor controlling cell survival
1379461_at	BE120147	5	<i>Zfp445</i>	Zinc finger protein 445	Zinc finger transcriptional factor
1386097_at	AW527230	6	<i>%ankrd12</i>	Ankyrin repeat domain 12	Recruit HDACs to p160 coactivators/nuclear receptor complex
1376341_at	BM388895	6	<i>%ankrd12</i>	Ankyrin repeat domain 12	Recruit HDACs to p160 coactivators/nuclear receptor complex
1379483_at	AI548256	6	<i>Bhlhe40</i>	Basic helix-loop-helix family, c40	bHLH transcription factor: cell cycle & circadian rhythms
1373075_at	BM390707	6	<i>Cdk8</i>	Cyclin-dependent kinase 8	Coactivator of RNA polymerase II-dependent gene expression
1387343_at	NM_013154	6	<i>Cebpδ</i>	Ccaat/enhancer binding protein δ	Transcriptional regulation of immune & inflammatory responses
1395318_at	BF397354	6	<i>Chd9</i>	Chromodomain helicase dna binding protein 9	Transcriptional coactivator for PPAR α
1389402_at	AI178746	6	<i>Cxmp1</i>	Cysteine-serine-rich nuclear protein 1	Transcriptional activator involved in apoptosis
1374349_at	BE099937	6	<i>Ctdspl</i>	Ctd small phosphatase-like	Negatively regulation of RNA polymerase II transcription

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<i>Transcription/translation regulation</i>					
1387874_at	AI230048	6	<i>Dbp</i>	D site of albumin promoter binding protein	Modulates the expression of clock output genes
1381149_at	BI293484	6	<i>Dnmt3a</i>	Dna -methyltransferase 3 a	Genome wide de novo methylation
1383099_at	BG670905	6	<i>Gppp1</i>	Gc-rich promoter binding protein 1	GC-rich promoter-specific transactivating transcription factor
1386080_at	BE107815	6	<i>Hey1</i>	Hairy/enhancer-of-split related with yypw motif 1	Downstream effector of Notch signaling
1386641_at	BF546770	6	<i>Hlf</i>	Hepatic leukemia factor	PAR-bZip transcription factor
1374709_at	AI406795	6	<i>Hlf</i>	Hepatic leukemia factor	PAR-bZip transcription factor
1385585_at	AI111674	6	<i>Hlf</i>	Hepatic leukemia factor	PAR-bZip transcription factor
1368249_at	NM_053556	6	<i>Klf15</i>	Kruppel-like factor 15	Transcriptional activator that binds to CLCNKA promoter
1394039_at	BM382886	6	<i>Klf5</i>	Kruppel-like factor 5	Transcription factor that binds EGFRE
1385961_at	BF561079	6	<i>Klf5</i>	Kruppel-like factor 5	Transcription factor that binds EGFRE
1387060_at	NM_031642	6	<i>Klf6</i>	Kruppel-like factor 6	Transcriptional activator in B-cell development
1395557_at	BF565718	6	<i>Klf6</i>	Kruppel-like factor 6	Transcriptional activator in B-cell development
1370209_at	BE101336	6	<i>Klf9</i>	Kruppel-like factor 9	Transcription factor that binds to GC box promoter elements
1371864_at	AW524563	6	<i>Klf9</i>	Kruppel-like factor 9	Transcription factor that binds to GC box promoter elements
1388178_at	AF322224	6	<i>Ncoa3</i>	Nuclear receptor coactivator 3	Coactivation of nuclear receptors
1371202_a_at	AB012232	6	<i>Nfb</i>	Nuclear factor i/b	Capable of activating transcription & replication
1370541_at	U20796	6	<i>Nr1d2</i>	Nuclear receptor subfamily 1, group d, 2	Circadian rhythm, Steroid hormone receptor
1370540_at	U15660	6	<i>Nr1d2</i>	Nuclear receptor subfamily 1, group d, 2	Circadian rhythm, Steroid hormone receptor
1390430_at	BF284190	6	<i>Nr1d2</i>	Nuclear receptor subfamily 1, group d, 2	Circadian rhythm, Steroid hormone receptor
1379982_at	BE117278	6	<i>Nrip1</i>	Nuclear receptor interacting protein 1	Modulates transcriptional regulation by steroid receptors
1374855_at	BI279017	6	<i>Per1</i>	Period homolog 1	Circadian rhythm, regulation of clock controlled genes
1378745_at	BG374483	6	<i>Per3</i>	Period homolog 3	Circadian rhythm, regulation of clock controlled genes
1388239_at	AF311875	6	<i>Per3</i>	Period homolog 3	Circadian rhythm, regulation of clock controlled genes
1379397_at	BE106199	6	<i>Rora</i>	Rar-related orphan receptor a	Circadian rhythms, regulation of metabolism
1388662_at	BF392884	6	<i>Rora</i>	Rar-related orphan receptor a	Circadian rhythms, regulation of metabolism
1385374_at	AA997236	6	<i>Tef</i>	Thyrotroph embryonic factor	Transactivates the TSHB promoter
1369919_at	NM_019194	6	<i>Tef</i>	Thyrotroph embryonic factor	Transactivates the TSHB promoter
1390819_at	BF419374	6	<i>Tef</i>	Thyrotroph embryonic factor	Transactivates the TSHB promoter
1376594_at	AW524517	6	<i>Tef1</i>	Vascular endothelial zinc finger 1	Transcriptional regulator of angiogenesis

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Transcription/translation regulation</i>					
1392613_at	AA942745	6	<i>*Zhb16</i>	Zinc finger & btb domain containing 16	Transcription factor involved in cell cycle progression
1380306_at	AW435415	6	<i>*Zhb16</i>	Zinc finger & btb domain containing 16	Transcription factor involved in cell cycle progression
1373680_at	AA800708	6	<i>Zfp697</i>	Zinc finger protein 697	Zinc finger transcriptional factor
1372319_at	BF282811	6	<i>Zhx3</i>	Zinc fingers & homeoboxes 3	Zinc finger transcriptional repressor
1391507_at	BF417765	6	<i>Znf467</i>	Zinc finger protein 467	Zinc finger transcriptional factor
1387658_at	U93849	6	<i>*Ee2k</i>	Eukaryotic elongation factor-2 kinase	Phosphorylation of eukaryotic elongation factor-2
1369638_at	NM_012947	6	<i>*Ee2k</i>	Eukaryotic elongation factor-2 kinase	Phosphorylation of eukaryotic elongation factor-3
1392149_at	AA997766	6	<i>Ejfb</i>	Eukaryotic translation initiation factor 4b	Binding of mRNA to ribosomes
1385393_at	BE099283	6	<i>*Ppargc1a</i>	PPAR γ coactivator 1 α	Transcriptional coactivator for steroid & nuclear receptors
1370089_at	NM_031347	6	<i>*Ppargc1a</i>	PPAR γ coactivator 1 α	Transcriptional coactivator for steroid & nuclear receptors
1394721_at	BF412697	7	<i>Bac2a</i>	Bromodomain adjacent to zinc finger domain, 2a	Component of the nucleolar remodeling complex
1385132_at	A1044253	7	<i>Mpb1</i>	V-myb myeloblastosis viral oncogene homolog -like 1	Transcription activator of B-lymphoid cell differentiation
1380638_at	BI294907	6	<i>*Vcoa3</i>	Nuclear receptor coactivator 3	Coactivation of nuclear receptors
1368303_at	NM_031678	7	<i>Per2</i>	Period homolog 2	Circadian rhythm, regulation of clock controlled genes
1369236_at	NM_133312	7	<i>Prdm4</i>	Pr domain containing 4	Transcription factor involved in cell differentiation
1367771_at	NM_031345	7	<i>Tsc22d3</i>	Tsc22 domain family, 3	Regulates anti-inflammatory effects of glucocorticoids & IL10
<i>Metabolism</i>					
1370363_at	L46791	1	<i>Ces3</i>	Carboxylesterase 3	Hydrolysis of amide & ester bonds
1367729_at	NM_022521	1	<i>Out</i>	Ornithine aminotransferase	Arginine & ornithine metabolism
1373243_at	BG378288	1	<i>Pmvk</i>	Phosphomevalonate kinase	Cholesterol biosynthesis
1372920_at	A1411345	1	<i>Prodh</i>	Proline dehydrogenase 1	Proline degradation
1367668_a_at	NM_031841	1	<i>Scd</i>	Stearoyl-coa desaturase	Lipogenesis in lung
1389587_at	BM384966	1	<i>Umpps</i>	Uridine monophosphate synthetase	De-novo pyrimidine biosynthesis
1387101_at	NM_053623	2	<i>Acs14</i>	Acyl-coa synthetase long-chain family 4	Lipid biosynthesis & fatty acid degradation
1377407_at	BI290154	2	<i>Acsm5</i>	Acyl-coa synthetase medium-chain family 5	Fatty acid metabolism
1372162_at	A1176565	2	<i>Acss1</i>	Acyl-coa synthetase short-chain family 1	Production of acetyl CoA & energy homeostasis
1380636_at	BM390144	2	<i>Alox12</i>	Arachidonate 12-lipoxygenase	Leukotriene metabolism
1378174_at	BI274989	2	<i>Arsi</i>	Arylsulfatase family, i	Sulfate ester hydrolysis
1389021_at	BF284746	2	<i>Asnsd1</i>	Asparagine synthetase domain containing 1	Asparagine biosynthesis

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Metabolism</i>					
1370964_at	BF283456	2	<i>Ass1</i>	Argininosuccinate synthase 1	Arginine biosynthesis & ammonia detoxification
1388127_at	AI170346	2	<i>Cyp4b3</i>	Cytochrome p450, family 4, subfamily v, 2	Oxidation of fatty acid & steroid moieties
1373240_at	BI276935	2	<i>Dhrs3</i>	Dehydrogenase/reductase 3	Retinoids & steroids metabolism
1367905_at	NM_019370	2	<i>Enpp3</i>	Ectonucleotide pyrophosphatase/phosphodiesterase 3	Hydrolysis of extracellular nucleotides
1370281_at	U13253	2	<i>Fabp5</i>	Fatty acid binding protein 5	Synthesis of surfactant phospholipids
1398514_at	AI232328	2	<i>Hgd</i>	Homogenisate 1,2-dioxygenase	Phenylalanine catabolism
1376813_at	BI295955	2	<i>Lpcat3</i>	Lysophosphatidylcholine acyltransferase 3	Regulates membrane fluidity
1379081_at	BE096731	2	<i>Nox1</i>	Nadph oxidase organizer 1	Generation of intracellular superoxides
1369641_at	AF016048	2	<i>Pafah1b2</i>	Platelet-activating factor acetylhydrolase 1b, subunit 2	Inactivation of platelet-activating factor
1386864_at	NM_053290	2	<i>Pgam1</i>	Phosphoglycerate mutase 1	Glycolysis pathway
1387058_at	NM_017225	2	<i>Pcp</i>	Phosphatidylcholine transfer protein	Metabolism of pulmonary surfactants
1379556_a_at	AI105210	2	<i>Gggs1</i>	Geranylgeranyl diphosphate synthase 1	C20-prenylation of proteins
1373681_at	AA799505	2	<i>Mpi</i>	Mannose phosphate isomerase	Synthesis of the GDP-mannose & dolichol-phosphate-mannose
1395536_at	BG673248	3	<i>Acp</i>	Acid phosphatase, prostate	Orthophosphoric monoester metabolism
1367720_at	NM_012899	3	<i>Alad</i>	Aminolevulinatase, δ -, dehydratase	Biosynthesis of tetrapyrroles
1368342_at	NM_031544	3	<i>Ampd3</i>	Adenosine monophosphate deaminase 3	Energy metabolism
1376837_at	BE109381	3	<i>H6pd</i>	Hexose-6-phosphate dehydrogenase	Oxidation of glucose & hexose 6 phosphate
1371923_at	BG380281	3	<i>Lpcat1</i>	Lysophosphatidylcholine acyltransferase 1	Synthesize phosphatidylcholine in pulmonary surfactant
1371875_at	BM388852	3	<i>Manba</i>	Mannosidase, β a, lysosomal	Glycoprotein oligosaccharide catabolism
1397644_at	BI278369	3	<i>Mup</i>	Methylthioadenosine phosphorylase	Polyamine metabolism
1393508_at	AI043805	3	<i>Nox4</i>	Nadph oxidase 4	Generation of intracellular superoxides
1389131_at	BF412799	3	<i>Nfyc1</i>	5'-nucleotidase, cytosolic iii-like	Nucleotidase & phosphotransferase
1371978_at	AI406375	3	<i>Osbp19</i>	Oxysterol binding protein-like 9	Lipid metabolism
1377576_at	AA891800	3	<i>Ppa2</i>	Pyrophosphatase 2	Hydrolysis of pyrophosphate & phosphate metabolism
1377789_at	AI145035	3	<i>*Chs2</i>	Carbohydrate sulfotransferase 2	Sulfation of N-acetylglucosamine
1375529_at	BF404908	4	<i>Cbr4</i>	Carbonyl reductase 4	Fatty acid biosynthesis
1386946_at	NM_031559	4	<i>Cpt1a</i>	Carnitine palmitoyltransferase 1a	Fatty acid oxidation
1377369_at	BF419070	4	<i>Cybrd1</i>	Cytochrome b reductase 1	Reduction of iron cations & recycling of extracellular ascorbate
1367900_at	NM_031043	4	<i>Gygi</i>	Glycogenin 1	Substrate for glycogen synthase

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Metabolism</i>					
1377060_at	AI410674	4	<i>Mccc2</i>	Methylcrotonyl-coenzyme a carboxylase 2	Leucine catabolism
1393368_at	BG372522	4	<i>Osbpl5</i>	Oxysterol binding protein-like 5	Lipid metabolism
1387896_at	M62763	4	<i>Scp2</i>	Sterol carrier protein 2	Steroidogenesis
1373017_at	AI237518	4	<i>Suc6g2</i>	Succinate-coa ligase, gdp-forming, β subunit	Succinate metabolism
1390523_at	BG373402	4	<i>*Chd2</i>	Carbohydrate sulfotransferase 2	Sulfation of N-acetylglucosamine
1372613_at	AI232784	5	<i>Bdh2</i>	3-hydroxybutyrate dehydrogenase, type 2	Lipid & sterol synthesis
1380376_at	BI290853	5	<i>*Osbpl6</i>	Oxysterol binding protein-like 6	Lipid metabolism
1388558_at	AI171802	6	<i>Ak3</i>	Adenylate kinase 3	Adenine & guanine nucleotide homeostasis
1367982_at	NM_024484	6	<i>Atas1</i>	Aminolevulinatase, δ -, synthase 1	Heme biosynthesis
1372615_at	AI070137	6	<i>Aoc3</i>	Amine oxidase, copper containing 3	Oxidation of amines to aldehydes
1369136_at	NM_012542	6	<i>Cyp2a3</i>	Cytochrome p450, family 2, subfamily a, 3	Hydroxylation of endogenous & exogenous compounds
1368304_at	NM_053433	6	<i>Fmo3</i>	Flavin containing monooxygenase 3	Oxidation of drugs & xenobiotics
1390141_at	BF281848	6	<i>Mhfdll</i>	Methylenetetrahydrofolate dehydrogenase 1-like	One-carbon folate metabolism
1384871_at	AA901035	6	<i>*Osbpl6</i>	Oxysterol binding protein-like 6	Lipid metabolism
1387109_at	NM_031576	6	<i>Por</i>	P450 oxidoreductase	Transfer of electrons from NADP to cytochrome P450 enzymes
1373923_at	BF283756	6	<i>Rdh10</i>	Retinol dehydrogenase 10	All-trans-retinol to all-trans-retinal conversion
1369636_at	BI285149	6	<i>*Sord</i>	Sorbitol dehydrogenase	Polyol pathway
1369635_at	NM_017052	6	<i>*Sord</i>	Sorbitol dehydrogenase	Polyol pathway
1388271_at	BM338331	6	<i>Mt24</i>	Metallothionein 2a	Protection against oxidative stress
1367755_at	NM_052809	7	<i>Cdo1</i>	Cysteine dioxygenase, type 1	Taurine biosynthesis
1387214_at	NM_031565	7	<i>Cox1</i>	Carboxylesterase 1	Hydrolysis of amide & ester bonds
1377635_at	BM389350	7	<i>*Fmo2</i>	Flavin containing monooxygenase 2	Oxidation of drugs & xenobiotics
1379467_at	BF284065	7	<i>*Fmo2</i>	Flavin containing monooxygenase 2	Oxidation of drugs & xenobiotics
1367774_at	NM_031509	7	<i>Gsta3</i>	Glutathione s-transferase α 3	Glutathione conjugation of endogenous compounds & xenobiotics
1368991_at	NM_053605	7	<i>Snmpd3</i>	Sphingomyelin phosphodiesterase 3, neutral membrane	Hydrolysis of sphingomyelin
1370019_at	AF394783	7	<i>Sult1a1</i>	Sulfotransferase family, cytosolic, 1a, 1	Sulphate conjugation of endogenous compounds & xenobiotics
1368016_at	NM_133299	8	<i>Pecr</i>	Peroxisomal trans-2-enoyl-coa reductase	Chain elongation of fatty acids
1378001_at	AI548615	UC	<i>Dhrs9</i>	Dehydrogenase/reductase 9	Retinoic acid biosynthesis

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Protein processing</i>					
1372103_at	BM386931	1	<i>DnaJ4</i>	DnaJ homolog, subfamily a, 4	Protein folding & stability
1372298_at	BE098766	1	<i>Erp44</i>	Endoplasmic reticulum protein 44	Folding of disulphide containing oligomeric proteins
1372701_at	AI237597	1	<i>Hsp90aa1</i>	Heat shock protein 90kDa α , class a 1	Protein folding & stability
1388331_at	BG057543	1	<i>Hsp90b1</i>	Heat shock protein 90kDa β , 1	Protein folding & stability
1370283_at	M14050	1	<i>Hspa5</i>	Heat shock 70kda protein 5	Assembly of multimeric protein complexes inside the ER
1388898_at	AI236601	1	<i>*Hsph1</i>	Heat shock 105kDa/110kda protein 1	Prevents the aggregation of denatured proteins
1385620_at	BF525282	1	<i>*Hsph1</i>	Heat shock 105kDa/110kda protein 1	Prevents the aggregation of denatured proteins
1389688_at	BM384373	1	<i>Leprell1</i>	Leprecan-like 1	Post-translational formation of 3-hydroxyproline in collagen
1372364_a_at	AA894101	1	<i>Nnan1</i>	N-terminal asparagine amidase	Ubiquitin-dependent turnover of intracellular proteins
1372704_at	BE098941	1	<i>Ostc</i>	Oligosaccharyltransferase complex subunit	Cotranslational transfer of high-mannose sugars to proteins
1375663_at	AI232346	1	<i>Ube2f</i>	Ubiquitin-conjugating enzyme e2f	Covalent attachment of NEDD8 to proteins
1395267_at	BM391972	2	<i>Slgald1</i>	Sl3 β -galactoside α -2,3-sialyltransferase 1	Transfer of sialic acid to galactose-containing proteins
1384285_at	BI298096	2	<i>March3</i>	Membrane-associated ring finger 3	Membrane-bound E3 ubiquitin ligases
1372152_at	BI275874	2	<i>Alg14</i>	Asparagine-linked glycosylation 14 homolog	Involved in protein N-glycosylation
1392422_at	AI236397	2	<i>Alg9</i>	Asparagine-linked glycosylation 9	Mannose transfer to lipid-linked oligosaccharides
1372565_at	BI274192	2	<i>Htra3</i>	Htra serine peptidase 3	Serine protease, inhibitor of Tgf signaling
1370859_at	BI284965	2	<i>Pdia6</i>	Protein disulfide isomerase family a, 6	Folding of disulfide-bonded proteins
1389519_at	BI275955	2	<i>Psmd8</i>	Proteasome 26s subunit, non-appease, 8	Regulatory subunit of the 26S proteasome
1388640_at	BI279654	2	<i>Smt3</i>	Smt3 suppressor of mif two 3 homolog 3	Post-translational sumoylation of proteins
1369943_at	NM_019386	2	<i>Tgm2</i>	Transglutaminase 2	Conjugation of polyamines to proteins
1373578_at	BM386413	2	<i>*Trim2</i>	Tripartite motif-containing 2	E3 ubiquitin ligase
1375278_at	BG670916	2	<i>*Trim2</i>	Tripartite motif-containing 2	E3 ubiquitin ligase
1373087_at	AI175452	3	<i>March7</i>	Membrane-associated ring finger 7	E3 ubiquitin ligase enhancing the E2 activity of HIP2
1388855_at	BI284428	3	<i>Cul1</i>	Cullin 1	Component of SKP1-CUL1-F-box E3 ubiquitin ligase complexes
1378127_at	BF420355	3	<i>Cul2</i>	Cullin 2	Component of ElonginB/C-CUL2/5-SOCS-box E3 ubiquitin ligase
1374001_at	AA851818	3	<i>Dcaf17</i>	Ddb1 & cul4 associated factor 17	Substrate receptor for CUL4-DDB1 E3 ubiquitin ligase
1393843_at	AI071911	3	<i>Fem1b</i>	Fem-1 homolog b	Component of an E3 ubiquitin-protein ligase complex
1397764_at	BG379719	3	<i>Kat5</i>	Potassium channel tetramerisation domain containing 5	Adaptor for cullin3 ubiquitin ligases
1383906_at	BF416847	3	<i>Neur3</i>	Neutralized homolog 3	E3 ubiquitin-protein ligase in alveolar cells

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Protein processing</i>					
1382385_at	BE116344	3	<i>Psmc6</i>	Proteasome 26s subunit, atpase, 6	Component of 26S proteasome
1388538_at	AI179646	3	<i>Rbx1</i>	Ring-box 1	Component of the SCF & the CBC E3 ubiquitin ligase complex
1373298_at	BI288011	3	<i>Ubash3b</i>	Ubiquitin associated & sh3 domain containing, b	Inhibits degradation of receptor-type tyrosine kinases
1376862_at	BI296848	3	<i>Ube4b</i>	Ubiquitination factor e4b	Catalyzes ubiquitin chain assembly
1370524_at	AW142720	3	<i>Ube2d2</i>	Ubiquitin-conjugating enzyme e2d 2	Ubiquitination of p53
1389230_at	AA818910	3	<i>Ardc3</i>	Arrestin domain containing 3	Ubiquitination of the b2-adrenergic receptor
1372270_at	BM391270	3	<i>Dpagt1</i>	Dolichyl-phosphate GlcNAc phosphotransferase 1	Glycoprotein biosynthesis
1375362_at	BI304125	3	<i>Syp12a</i>	Signal peptide peptidase-like 2a	Intramembrane protease involved in ITMB2 processing
1388925_at	AI171547	3	<i>Sirt5</i>	Sirtuin 5	NAD-dependent protein deacetylase regulating blood ammonia
1385851_at	AA925441	3	<i>Capn5</i>	Calpain 5	Cystein protease involved in remodeling of cytoskeleton
1387781_at	NM_022395	3	<i>Pmpc6</i>	Peptidase β	Transit peptides cleavage from mitochondrial protein
1379422_at	AI145871	4	<i>Algl3</i>	Asparagine-linked glycosylation 13 homolog	Involved in protein N-glycosylation
1373147_at	AI145387	4	<i>Fbx13</i>	F-box & leucine-rich repeat protein 3	Core component of SKP1-CUL-F-box E3 ubiquitin ligase complex
1367478_at	AI600136	4	<i>Htra2</i>	Htra serine peptidase 2	Serine protease involved in apoptosis
1371730_at	BF418786	4	<i>Lomp2</i>	Lon peptidase 2, peroxisomal	Serine protease involved in peroxisome biogenesis
1373775_at	AI232313	4	<i>Nub1</i>	Negative regulator of ubiquitin-like proteins 1	Negatively regulator of ubiquitin-like protein NEDD8
1374490_at	AI177845	4	<i>Trip12</i>	Thyroid hormone receptor interactor 12	Proteolytic activation of 20S proteasome
1370099_at	NM_022272	5	<i>Fbx20</i>	F-box & leucine-rich repeat protein 20	Substrate recognition of the SCF type E3 ubiquitin ligase complex
1388901_at	AW534837	6	<i>*Fklp5</i>	Fk506 binding protein 5	Protein folding & trafficking
1380611_at	BI284255	6	<i>*Fklp5</i>	Fk506 binding protein 5	Protein folding & trafficking
1375640_at	AI236786	6	<i>Fkbp9</i>	Fk506 binding protein 9, 63 kda	Accelerated protein folding during synthesis
1384501_at	BI303932	6	<i>Hecw2</i>	Hect, e2 & ww domain containing 2	E3 ubiquitin ligase mediating ubiquitination of TP73
1367741_at	NM_053523	6	<i>Herpud1</i>	Homocysteine & ER stress-inducible, ubiquitin-like 1	ER-associated unfolded protein degradation
1393813_at	BF388771	6	<i>Trc3</i>	Tetrairicopeptide repeat domain 3	E3 ubiquitin-protein ligase
1375965_at	AI229167	6	<i>Ube2k</i>	Ubiquitin-conjugating enzyme e2k	Ubiquitin-conjugation: degradation of abnormal proteins
1369754_a_at	NM_053295	6	<i>Cast</i>	Calpastatin	Inhibitor of calpain & protein degradation
1377761_at	BI296057	7	<i>Gjpl2</i>	Glutamine-fructose-6-phosphate transaminase 2	Regulates N- & O-linked glycosylation of proteins
1368792_at	NM_019163	7	<i>Psen1</i>	Presenilin 1	Cleavage of notch receptors
1368256_at	NM_053779	7	<i>Serpini1</i>	Serpin peptidase inhibitor, clade i, 1	Serine protease inhibitor of plasminogen activators & plasmin

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<i>Protein processing</i>					
1387703_a_at	AF106659	7	<i>Usp2</i>	Ubiquitin specific peptidase 2	Disassembly of the polyubiquitin chains
1367577_at	NM_031970	8	<i>Hspb1</i>	Heat shock 27kda protein 1	Stress resistance & actin reorganization
1399130_at	AW918690	UC	<i>Ptgy</i>	Phosphatidylinositol glycan anchor biosynthesis, class y	production of GPI-anchors for cell surface proteins
<i>Cell cycle/Apoptosis</i>					
1374346_at	AA894233	2	<i>Aifm2</i>	Apoptosis-inducing factor, mitochondrion-associated, 2	TP53/p53-dependent apoptosis
1382993_at	AI236152	2	<i>Bbc3</i>	Bcl2 binding component 3	Mediator of apoptosis
1372160_at	BM389738	2	<i>Bicap</i>	Bladder cancer associated protein	Tumor suppressor gene, stimulates apoptosis
1380737_at	BF415834	2	<i>Elmo2</i>	Engulfment & cell motility 2	Phagocytosis of apoptotic cells
1389322_at	A1013847	2	<i>Plcd7</i>	Programmed cell death 7	Promotes apoptosis
1391077_at	AA851257	2	<i>Clypn</i>	Claspin homolog	Cell cycle arrest after DNA damage
1375546_at	A1009616	2	<i>Fzr1</i>	Fizzy/cell division cycle 20 related 1	Regulates mitotic progression
1388395_at	A1406939	2	<i>G0s2</i>	G0/g1switch 2	Oncogene, cell cycle regulation
1390384_at	AA875257	2	<i>H2afx</i>	H2a histone family, x	Condensation of nucleosome
1389355_at	BF285187	2	<i>Ier5</i>	Immediate early response 5	Mitogenesis
1367890_at	NM_022522	3	<i>Casp2</i>	Caspase 2	Apoptosis execution
1398340_at	A1317832	3	<i>Candbpl</i>	Cyclin d-type binding-protein 1	Negative regulator of cell cycle progression
1389646_at	BE100584	3	<i>Cdc23</i>	Cell division cycle 23 homolog	Controls progression through mitosis & the G1 phase
1367759_at	NM_012578	3	<i>H1f0</i>	H1 histone family, 0	Condensation of nucleosome chains
1388660_at	BI295915	3	<i>Mexi1</i>	Malignant t cell amplified sequence 1	Anti-oncogene, reduces cell doubling time
1368422_at	NM_017149	3	<i>Meox2</i>	Mesenchyme homeobox 2	Vascular SM cell proliferation & differentiation
1398913_at	AI599394	3	<i>Nuam1</i>	Nuclear mitotic apparatus protein 1	Structural component of the nucleus
1387795_at	NM_053480	3	<i>Polc2</i>	Polymerase, α 2	Chromosomal DNA replication
1399004_at	BM986309	3	<i>Roma1</i>	Reactive oxygen species modulator 1	Role in oxidative DNA damage
1382175_at	AW534129	3	<i>Wap</i>	Wilms tumor 1 associated protein	Regulates G2/M cell-cycle transition
1388883_at	BF281976	3	<i>Pold4</i>	Polymerase, δ 4	Regulates activity of DNA polymerase
1379495_at	BM388504	3	<i>*Plxdc2</i>	Plexin domain containing 2	Mediator of apoptosis
1379755_at	BE116194	4	<i>*Plxdc2</i>	Plexin domain containing 2	Mediator of apoptosis
1375945_at	BG375285	4	<i>*Plxdc2</i>	Plexin domain containing 2	Mediator of apoptosis
1371868_at	AA851386	4	<i>Bcas2</i>	Breast carcinoma amplified sequence 2	Negative regulator of apoptosis

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Cell cycle/Apoptosis</i>					
1389102_at	BG378147	4	<i>Dock1</i>	Dedicator of cytokinesis 1	Phagocytosis of apoptotic cells
1377080_at	AI598730	4	<i>Nradd</i>	Neurotrophin receptor associated death domain	Mediator of apoptosis
1374784_at	AI407006	4	<i>Prf1cl</i>	Phosphoribosyl transferase domain containing 1	Tumor suppressor gene
1384163_at	BE103875	4	<i>Trp53inp1</i>	Tumor protein p53 inducible nuclear protein 1	Promotes p53/TP53 phosphorylation & apoptosis
1386895_at	NM_053409	4	<i>Maged1</i>	Melanoma antigen family d, 1	Inhibits cell proliferation
1372724_at	AI009727	4	<i>Mll5</i>	Myeloid/lymphoid or mixed-lineage leukemia 5	Methylation of histones
1368120_at	NM_031069	5	<i>Nell1</i>	Nel-like 1	Cell growth & differentiation
1379449_at	BG670920	5	<i>Rblcc1</i>	Rb1-inducible coiled-coil 1	Cell growth, proliferation & apoptosis
1376523_at	BF391127	6	<i>*Arid4a</i>	At rich interactive domain 4a	Interacts with retinoblastoma, regulates cell proliferation
1379112_at	AW528085	6	<i>*Arid4a</i>	At rich interactive domain 4a	Interacts with retinoblastoma, regulates cell proliferation
1372016_at	BI287978	6	<i>Gadd45b</i>	Growth arrest & dna-damage-inducible, β	Regulation of growth & apoptosis
1378544_at	BE117471	6	<i>Rbbp6</i>	Retinoblastoma binding protein 6	Suppress cell proliferation
1383597_at	AI072301	6	<i>Dtre1c</i>	Dna cross-link repair 1c	VJ recombination
1387121_a_at	NM_133583	6	<i>Ndrp2</i>	Ndrp family, 2	Dendritic cell differentiation
1368080_at	NM_054008	6	<i>Rgc32</i>	Response gene to complement 32	Arrest of mitotic progression at the G2/M transition
1397409_s_at	BE113999	6	<i>Wee1</i>	Wee1 homolog	Regulates G2/M cell-cycle transition
1381611_at	BF396355	7	<i>Ahrf1</i>	At hook containing transcription factor 1	Regulation of mitosis & cytokinesis
1398245_at	NM_031688	8	<i>Sre-g</i>	Synuclein, γ	Regulation of mitosis
1395074_at	BI290959	8	<i>Tag</i>	Thymine-dna glycosylase	Defence against genetic mutation
<i>Extracellular matrix</i>					
1393060_at	AI059694	1	<i>Adamts2</i>	Adamts-like 2	Glycoprotein that binds cell surface & ECM
1392553_at	BF412281	1	<i>Adamts5</i>	Adamts-like 5	Glycoprotein that binds cell surface & ECM
1370927_at	BE108345	1	<i>Col12a1</i>	Collagen, type xii, α 1	Interacts with type I collagen fibrils
1376457_at	AI175861	1	<i>Crispld2</i>	Cysteine-rich secretory protein tcl domain containing 2	Promotes matrix assembly
1374529_at	AI406660	1	<i>*Thbs1</i>	Thrombospondin 1	Cell attachment, invasion & cell-ECM interaction
1394109_at	BFS58056	1	<i>*Thbs1</i>	Thrombospondin 1	Cell attachment, invasion & cell-ECM interaction
1391946_at	BI296054	2	<i>Scp</i>	Selectin p	Receptor for carbohydrates on neutrophils & monocytes
1393730_at	BI277836	2	<i>Adamts4</i>	Adam metalloproteinase with thrombospondin 1, motif 4	ECM protease involved in proteoglycans cleavage
1376481_at	BF416285	2	<i>Adamts9</i>	Adam metalloproteinase with thrombospondin 1, motif, 9	ECM protease involved in proteoglycans cleavage

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Extracellular matrix</i>					
1391240_at	AI013954	2	<i>Hs3st6</i>	Heparan sulfate 3-O-sulfotransferase 6	Sulfurylation of heparan sulfate
1382439_at	AI070686	2	<i>Igfb6</i>	Integrin, β 6	Receptor for fibronectin & cytotactin
1370847_at	AA801238	3	<i>Spon2</i>	Spondin 2	Pattern recognition molecule in ECM for microbes
1371429_at	BF281192	3	<i>Dag1</i>	Dysroglycan 1	ECM receptor involved in ECM-cytoskeleton interaction
1388111_at	J04035	3	<i>Eln</i>	Elastin	Structural component of elastic fibers
1367860_a_at	X83537	3	<i>%Mmp14</i>	Matrix metalloproteinase 14	Breakdown of ECM components
1378225_at	AI176440	3	<i>%Mmp14</i>	Matrix metalloproteinase 14	Breakdown of ECM components
1368428_at	NM_057155	3	<i>Xmppe2</i>	X-prolyl aminopeptidase 2, membrane-bound	Hydrolase specific for ECM degradation components
1390931_at	AI704285	3	<i>Adamts15</i>	Adam metalloproteinase with thrombospondin 1 motif, 15	ECM protease that interacts with integrins
1374286_at	AA996836	3	<i>Bhd7</i>	Btb domain containing 7	Link between the ECM & cleft propagation
1382474_at	AA819747	3	<i>Col13a1</i>	Collagen, type xiii, α 1	Nonfibrillar collagen – branching morphogenesis of lung
1368347_at	NM_021760	3	<i>Col5a3</i>	Collagen, type v, α 3	Interaction with heparan sulfate & thrombospondin
1372325_at	BI303596	3	<i>Emilin1</i>	Elastin microfibril interfacer 1	Formation of elastic fiber
1368829_at	BM389019	3	<i>Fbn1</i>	Fibrillin 1	Extracellular calcium binding – structural support
1379688_at	BM389813	3	<i>Igqa4</i>	Integrin, α 4	Receptor for fibronectin
1368172_a_at	BI304009	3	<i>*Lox</i>	Lysyl oxidase	Crosslinking of collagen & elastin
1368171_at	NM_017061	3	<i>*Lox</i>	Lysyl oxidase	Crosslinking of collagen & elastin
1388902_at	AI599031	3	<i>*Loxl1</i>	Lysyl oxidase-like 1	Crosslinking of collagen & elastin
1380829_at	BM387795	3	<i>*Loxl1</i>	Lysyl oxidase-like 1	Crosslinking of collagen & elastin
1388618_at	BM389302	3	<i>Nid2</i>	Nidogen 2	Cell-ECM interaction
1383348_at	BF545309	3	<i>Nbsl</i>	N-deacetylase/n-sulfotransferase 1	Biosynthesis of heparan sulphate
1386529_at	BF564309	4	<i>Cbe1</i>	Collagen & calcium binding egf domains 1	ECM remodeling & migration
1393469_at	BE102340	4	<i>CHI</i>	Cell adhesion molecule with homology to Itcam	Cell migration towards ECM
1367866_at	NM_019153	4	<i>Fbln5</i>	Fibulin 5	Interactions with integrins & vascular development
1392888_at	AI071251	4	<i>Gpc4</i>	Glypican 4	Cell surface proteoglycan that bears heparan sulfate
1393672_at	BE117954	4	<i>Hmnc1</i>	Heminentin 1	Organization of hemidesmosomes
1373401_at	AI176034	4	<i>Trc</i>	Tenascin c	Fiber associated structural protein
1382481_a_at	BG372422	5	<i>Adam33</i>	Adam metalloproteinase domain 33	ECM protease involved in cell matrix interaction
1371186_at	AA955091	6	<i>Iga6</i>	Integrin, α 6	Receptor for laminin

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Extracellular matrix</i>					
1392578_at	AI070875	6	<i>Mgp</i>	Matrix gla protein	Inhibitory morphogen involved in vascular branching
1368223_at	NM_024400	6	<i>Adams1</i>	Adam metalloproteinase with thrombospondin 1 motif, 1	ECM protease involved in proteoglycans cleavage
1380726_at	BI290633	7	<i>Aspn</i>	Asporin	Proteoglycan involved in TGF & BMP signaling
1389836_a_at	AI599265	7	<i>*Timp3</i>	Timp metalloproteinase inhibitor 3	Inhibits matrix metalloproteinases
1368989_at	NM_012886	7	<i>*Timp3</i>	Timp metalloproteinase inhibitor 3	Inhibits matrix metalloproteinases
1372926_at	AI009159	7	<i>*Timp3</i>	Timp metalloproteinase inhibitor 3	Inhibits matrix metalloproteinases
1375138_at	AA893169	7	<i>*Timp3</i>	Timp metalloproteinase inhibitor 3	Inhibits matrix metalloproteinases
1377632_at	AW251195	7	<i>Timp4</i>	Timp metalloproteinase inhibitor 4	Inhibits matrix metalloproteinases
1373957_at	BF281544	8	<i>Reln</i>	Reelin	ECM protease involved in cell adhesion & motility
<i>Cytoskeleton</i>					
1388433_at	BI279605	1	<i>Krt19</i>	Keratin 19	Structural support to epithelial cells
1388921_at	BI279587	1	<i>Krt80</i>	Keratin 80	Structural support to epithelial cells
1374513_at	BM389104	2	<i>Sept7</i>	Septin 7	Filament-forming cytoskeletal GTPase
1368571_at	NM_021997	2	<i>Clp2</i>	Cap-gly domain containing linker protein 2	Links microtubules to lamellar body
1372777_at	BM385774	2	<i>Fhbp11</i>	Formin binding protein 1-like	Reorganization of actin cytoskeleton & membrane tubulation
1378144_at	BI296384	2	<i>Kank4</i>	Kn motif & ankyrin repeat domains 4	Actin polymerization
1369637_at	NM_053486	2	<i>Kif3c</i>	Kinesin family 3c	Microtubule-based anterograde translocator
1378197_at	AW433953	2	<i>Kifc2</i>	Kinesin family c2	Microtubule-dependent retrograde transport
1372459_at	AW520792	2	<i>Vasp</i>	Vasodilator-stimulated phosphoprotein	Actin dynamics, cytoskeleton remodeling & cell migration
1373351_at	BI286775	3	<i>Ank2</i>	Ankyrin 2	Integral membrane protein -cytoskeleton interaction
1384605_at	BF419162	3	<i>Fnm4a</i>	Ferm domain containing 4a	Junctional remodeling & epithelial polarity determination
1371940_at	AW920000	3	<i>Macf1</i>	Microtubule-actin crosslinking factor 1	Cross-linking of cytoskeletal proteins
1389448_at	AA800004	3	<i>Sept4</i>	Septin 4	Filament-forming cytoskeletal GTPase
1388874_at	BE113032	4	<i>Mass1</i>	Metastasis suppressor 1	Actin cytoskeleton interaction
1375223_at	BI294737	4	<i>*Phactr1</i>	Phosphatase & actin regulator 1	Actin cytoskeleton interaction
1382303_at	AA996943	4	<i>*Phactr1</i>	Phosphatase & actin regulator 1	Actin cytoskeleton interaction
1373842_at	BM390718	5	<i>Wasl</i>	Wiskott-aldrich syndrome-like	Regulates actin polymerization
1371046_at	AW920849	6	<i>Sytn11</i>	Spectrin, β 1	crosslinking of actin cytoskeleton
1382512_at	AA850695	6	<i>Rock2</i>	Rho-associated, coiled-coil containing PK 2	Formation of actin stress fibers & focal adhesions

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Cytoskeleton</i>					
1392900_at	AW888327	UC	<i>Capza1</i>	Capping protein muscle z-line, α 1	Regulates growth of actin filament
1373616_at	BM386276	UC	<i>Sik</i>	Src20-like kinase	Mediates actin stress fiber dissolution
<i>Transport</i>					
1398255_at	NM_031672	1	<i>Sic15a2/Pcpt2</i>	Solute carrier family 15, 2	Oligopeptide transport
1379366_a_at	AW529938	2	<i>Bspry</i>	B-box & spry domain containing	Regulation of epithelial calcium transport
1376214_at	AA850788	2	<i>Mnache</i>	Methylmalonic aciduria cblc type, with homocystinuria	Intracellular trafficking of cobalamin
1370304_at	AB006450	2	<i>Timm17a</i>	Translocase of inner mitochondrial membrane 17a	Translocation of proteins across the mitochondrion
1369625_at	AA891661	2	<i>Aqp1</i>	Aquaporin 1	Fluid homeostasis
1375085_at	BE112659	2	<i>Sic25a35</i>	Solute carrier family 25, 35	Mitochondrial transport of endogenous & exogenous compounds
1385456_at	AA955079	2	<i>Sic28a3</i>	Solute carrier family 28, 3	Nucleoside transport
1398771_at	NM_019283	2	<i>Sic3a2</i>	Solute carrier family 3, 2	Neutral amino acid transport
1387808_at	AF200684	2	<i>Sic7a7</i>	Solute carrier family 7, 7	Dibasic & neutral amino acid transport
1367939_at	NM_012733	3	<i>Rbp1</i>	Retinol binding protein 1, cellular	Intracellular transport of retinol
1398999_at	BF283508	3	<i>Star3</i>	Star-related lipid transfer domain containing 3	Cholesterol transport
1386770_x_at	AW920063	3	<i>Kcne2</i>	Potassium voltage-gated channel, isk-related family, 2	Epithelial electrolyte transport
1383247_a_at	BI291029	3	<i>Spns2</i>	Spinster homolog 2	Sphingolipid transporter
1395644_at	BF386852	3	<i>Ahca8</i>	Atp-binding cassette, sub-family a, 8	ATP-dependent lipophilic drug transport
1376036_at	AI180408	3	<i>Fhcr2</i>	Feline leukemia virus subgroup c cellular receptor 2	Transporter specific for calcium-chelator complex
1370973_at	BF285019	3	<i>Scn7a</i>	Sodium channel, voltage-gated, type vii, α	voltage-dependent sodium ion transport
1370516_at	AB026665	3	<i>Sic15a3</i>	Solute carrier family 15, 3	Proton oligopeptide cotransport
1376860_at	BE105713	3	<i>Sic22a23</i>	Solute carrier family 22, 23	Organic ions transport
1367950_at	NM_019269	3	<i>Sic22a5</i>	Solute carrier family 22, 5	Organic cation transport
1376165_at	BE098153	3	<i>Sic24a3</i>	Solute carrier family 24, 3	Transport of calcium & potassium ion in exchange for sodium ions
1387970_at	AF276870	3	<i>Sic38a5</i>	Solute carrier family 38, 5	Sodium-dependent amino acid transport
1389089_at	BM389027	3	<i>Sic39a7</i>	Solute carrier family 39, 7	Zinc transport
1378131_at	AI045015	3	<i>Sic9a9</i>	Solute carrier family 9, 9	Organic ion homeostasis
1389613_at	AI234712	4	<i>App8a1</i>	Atpase, aminophospholipid transporter, class i, type 8a, 1	Transport of aminophospholipids
1368533_at	NM_133304	4	<i>Heph</i>	Hephaestin	Iron transport
1374885_at	AI172278	4	<i>Sic12a6</i>	Solute carrier family 12, 6	Potassium-chloride cotransport

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<i>Transport</i>					
1394467_at	AI511367	6	<i>Ctcf5</i>	Chloride channel 5	Lung chloride secretion
1369500_at	NM_021688	6	<i>Kcni1</i>	Potassium channel, subfamily k, 1	Inward rectifying potassium channel
1387310_at	NM_134462	6	<i>Atp2c2</i>	Atpase, ca ⁺⁺ transporting, type 2c, 2	ATP coupled calcium transport
1390956_at	BI294909	6	<i>Apol10a</i>	Apolipoprotein 1 10a	Lipid transport
1376265_at	AI411542	6	<i>Stap2</i>	Six transmembrane epithelial antigen of the prostate 2	cellular uptake of iron & copper
1384469_at	AI502224	6	<i>Abca5</i>	Atp-binding cassette, sub-family a, 5	Intracellular sterol & steroid transport
1373282_at	AI406494	6	<i>Slc25a33</i>	Solute carrier family 25, 33	Mitochondrial transporter in dendritic cell endocytosis
1384756_at	BF394311	6	<i>Slc43a2</i>	Solute carrier family 43, 2	Neutral amino acid transport
1368778_at	NM_017206	6	<i>*Slc6a6</i>	Solute carrier family 6, 6	Transports of taurine & β-alanine
1374531_at	AA926305	6	<i>*Slc6a6</i>	Solute carrier family 6, 6	Transports of taurine & β-alanine
1367814_at	M14137	7	<i>*Atp1b1</i>	Atpase, na ⁺ /k ⁺ transporting, β 1	ATP dependent sodium & potassium exchange
1386937_at	AI232036	7	<i>*Atp1b1</i>	Atpase, na ⁺ /k ⁺ transporting, β 1	ATP dependent sodium & potassium exchange
1374251_at	AA893192	7	<i>Kcni15</i>	Potassium inwardly-rectifying channel, subfamily j, 15	Inward rectifier potassium channels
1376702_at	AI228307	7	<i>Mcl1</i>	Megalencephalic leukoencephalopathy with cysts 1	Non-selective cation channel
1398635_at	BF565662	7	<i>Slc10a6</i>	Solute carrier family 10, 6	Transport of sulfoconjugated steroid hormones
<i>Vesicular transport</i>					
1373654_at	BM389254	1	<i>Anxa8</i>	Annexin a8	Indirectly inhibits the thromboplastin-specific complex
1368928_at	NM_031786	2	<i>Trim3</i>	Tripartite motif-containing 3	Vesicular trafficking in association with the CART complex
1373024_at	BI296511	2	<i>Aps3l</i>	Adaptor-related protein complex 3, sigma 1 subunit	Vesicles budding from the Golgi membrane
1372317_at	AI177867	2	<i>Ehd1</i>	Eh-domain containing 1	Early endocytic membrane fusion & membrane trafficking
1389319_at	AA800719	2	<i>Ergic1</i>	Endoplasmic reticulum-golgi intermediate compartment 1	Transport between endoplasmic reticulum & Golgi
1375438_at	AA964687	2	<i>Gosr2</i>	Golgi snap receptor complex 2	Protein transport from the cis/medial-Golgi to the trans-Golgi
1389073_at	AA851248	2	<i>Reep4</i>	Receptor accessory protein 4	Rab-mediated vesicle transport
1379732_at	AW920037	2	<i>Sxc11</i>	Syntaxin 11	Protein transport between late endosomes & trans-Golgi network
1372512_at	BE113340	2	<i>Sxc18</i>	Syntaxin 18	Targeting & fusion of Golgi-derived retrograde transport with ER
1388556_at	BG381589	2	<i>Sxc6</i>	Syntaxin 6	Degradation of CFTR
1371791_at	AI227937	2	<i>Surf4</i>	Surfeit 4	Maintenance of ER-Golgi intermediate compartment & Golgi
1370332_at	AF159356	2	<i>Unc13d</i>	Unc-13 homolog d	Cytotoxic granule exocytosis in lymphocytes & muscin secretion
1388519_at	BI281906	2	<i>Sec61b</i>	Sec61 β subunit	Protein translocation in the endoplasmic reticulum

* Genes represented by multiple probe sets

Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Vesicular transport</i>					
1393000_at	AI045970	3	<i>Amph</i>	Amphiphysin	Regulation of exocytosis
1376239_at	BF283053	3	<i>Atp6v1c2</i>	Atpase, h+ transporting, lysosomal 42kda, v1 subunit c2	Intracellular compartments acidification in cells; protein trafficking
1388838_at	AA943752	3	<i>Chmp4b</i>	Chromatin modifying protein 4b	Core component of ESCRT-III for sorting of cargo proteins
1374045_at	AI598851	3	<i>Cog8</i>	Component of oligomeric golgi complex 8	Intracellular membrane trafficking & glycoprotein modification
1375163_at	BI275870	3	<i>Rab11b</i>	Rab11b, ras oncogene family1	Membrane delivery during cytokinesis
1369092_at	NM_057147	3	<i>Sec22a</i>	Sec22 vesicle trafficking protein homolog a	Vesicle transport between the ER & the Golgi complex
1389138_at	AA945574	3	<i>Sec22b</i>	Sec22 vesicle trafficking protein homolog b	ER-Golgi protein trafficking
1380639_at	BI296446	3	<i>Stax5</i>	Syntaxin 5	Vesicle transport between the ER & the Golgi complex
1390107_at	BG670294	3	<i>Syt2</i>	Synaptotagmin-like 2	Cytotoxic granule exocytosis in lymphocytes
1371651_at	BI295882	3	<i>Vps25</i>	Vacuolar protein sorting 25 homolog	Endocytosis of ubiquitinated membrane proteins
1388892_at	BF395178	3	<i>Rab2b</i>	Rab2b, ras oncogene family	Protein transport from the ER to the Golgi complex
1371769_at	BI279666	3	<i>Scamp2</i>	Secretory carrier membrane protein 2	Post-Golgi recycling pathways
1385158_at	BI301125	4	<i>Chmp1b</i>	Chromatin modifying protein 1b	Component of ESCRT-III
1368538_at	NM_022691	4	<i>Exoc7</i>	Exocyst complex component 7	Docking of exocytic vesicles with fusion sites on plasma membrane
1375523_at	BE108178	4	<i>Murks</i>	Myristoylated alanine-rich PKC substrate	Mucin secretion
1393933_at	AW144823	4	<i>*Sor1</i>	Sortilin-related receptor, 1 a repeats-containing	Uptake of lipoproteins & proteases
1377457_a_at	AA850618	4	<i>*Sor1</i>	Sortilin-related receptor, 1 a repeats-containing	Uptake of lipoproteins & proteases
1393626_at	BF562507	4	<i>*Sor1</i>	Sortilin-related receptor, 1 a repeats-containing	Uptake of lipoproteins & proteases
1384863_at	AW534032	6	<i>Cpne7</i>	Copine 7	Calcium-dependent phospholipid binding & membrane trafficking
1390603_at	AA956317	6	<i>Snap1</i>	Stromal membrane-associated protein 1	Clathrin-dependent endocytosis
1392648_at	BI294018	7	<i>Mrc1</i>	Mannose receptor, c type 1	Endocytosis of glycoproteins by macrophages
<i>mRNA Processing</i>					
1371505_at	BG381750	1	<i>Hmnpce</i>	Heterogeneous nuclear ribonucleoprotein c	Spliceosome assembly & mRNA splicing
1392111_at	AW435086	2	<i>Exosc3</i>	Exosome component 3	Degradation of unstable mRNA
1389867_at	BI281086	3	<i>Celf2</i>	Cugbp, elav-like family 2	Pre-mRNA alternative splicing & RNA editing
1383115_at	AW522557	3	<i>Csf2t</i>	Cleavage stimulation factor, subunit 2, 64kda, tau	mRNA polyadenylation
1371362_at	BI285402	3	<i>Ddx17</i>	Dead box 17	microRNA processing
1376596_at	BI295847	3	<i>Ddx42</i>	Dead box 42	ATP-dependent RNA helicase
1373905_at	AI178441	3	<i>Hmnprr</i>	Heterogeneous nuclear ribonucleoprotein r	mRNA metabolism & transport

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<i>mRNA Processing</i>					
1369971_a_at	AB046616	3	<i>Hnrpd</i>	Heterogeneous nuclear ribonucleoprotein d	Translation coupled mRNA turnover
1372810_at	BF281256	3	<i>Hnrpd1</i>	Heterogeneous nuclear ribonucleoprotein d-like	mRNA metabolism & transport
1398873_at	BI279608	3	<i>Hnrpl</i>	Heterogeneous nuclear ribonucleoprotein l	mRNA metabolism & transport
1398356_at	BF420718	3	<i>Nud21</i>	Nudix -type motif 21	Pre-mRNA 3'-processing & mRNA transport
1371899_at	AI102009	3	<i>Pknox</i>	PK, FEN-inducible double stranded rna dependent activator	mRNA biogenesis
1378291_at	BF549558	3	<i>Prpf39</i>	Prp39 pre-mrna processing factor 39 homolog	Involved in pre-mRNA splicing
1377116_at	BI301478	3	<i>*Rnase1</i>	Ribonuclease, rnase a family, 1	Cleavage of single & double str&ed RNA
1380425_at	AI012859	3	<i>*Rnase1</i>	Ribonuclease, rnase a family, 1	Cleavage of single & double str&ed RNA
1379542_at	BF522334	3	<i>Snrpf</i>	Small nuclear ribonucleoprotein f	mRNA 3'-end processing
1390489_at	BE108860	3	<i>Syncrip</i>	Synaptotagmin binding, cytoplasmic rna interacting protein	Translation coupled mRNA turnover
1368228_at	NM_031616	3	<i>Znfx2</i>	Zinc finger, ran-binding domain containing 2	Alternative splice-site selection
1382809_at	AW921084	4	<i>Cirbp</i>	Cold inducible rna binding protein	mRNA stabilization during genotoxic stress
1373576_at	BE107337	4	<i>Cnot6</i>	Cct4-not transcription complex, subunit 6	Poly nuclease involved in mRNA decay
1393432_a_at	AA899840	4	<i>Dlx36</i>	Deah_box_36	Degradation & deadenylation of mRNA
1373195_at	AW532485	4	<i>Fus</i>	Fused in sarcoma	Pre-mRNA splicing & matured mRNA transport
1375612_at	AA965147	4	<i>*Hnrpaa1</i>	Heterogeneous nuclear ribonucleoprotein a1	Pre-mRNA packaging into hnRNP particles
1387872_at	BF396270	4	<i>*Hnrpaa1</i>	Heterogeneous nuclear ribonucleoprotein a1	Pre-mRNA packaging into hnRNP particles
1398797_at	NM_057141	4	<i>Hnrpdk</i>	Heterogeneous nuclear ribonucleoprotein k	Nuclear metabolism of hnRNAs
1398773_at	NM_130405	4	<i>Klhlbs1</i>	Kh domain containing, signal transduction associated 1	mRNA nuclear transport & stability
1379597_at	AI011037	4	<i>Rsrc1</i>	Arginine/serine-rich coiled-coil 1	Spliceosome assembly & mRNA splicing
1390234_at	BE115465	4	<i>Sf3b1</i>	Splicing factor, 3b, subunit 1, 155kda	Spliceosome assembly & mRNA splicing
1370920_at	AI102055	4	<i>Srpk2</i>	Sfrs PK2	Spliceosome assembly & trafficking
1372309_at	BI296558	5	<i>Luc7l2</i>	Luc7-like 2	Recognition of non-consensus splice donor
1383496_at	BM387466	6	<i>Esrp1</i>	Epithelial splicing regulatory protein 1	Epithelial cell specific splicing regulator
1391561_at	BE108893	6	<i>Hnrmpu</i>	Heterogeneous nuclear ribonucleoprotein u	Promotes mRNA stability
1389521_at	AI408553	6	<i>Ivns1abp</i>	Influenza virus ns1a binding protein	RNA metabolism
1373303_at	BM383325	6	<i>Sfrs2ip</i>	Splicing factor, arginine/serine-rich 2, interacting protein	Pre-mRNA alternative splicing
<i>Immune regulation</i>					
1390738_at	BM385476	2	<i>Bst2</i>	Bone marrow stromal cell antigen 2	B-cell growth & activation

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Immune regulation</i>					
1376574_at	BI282932	2	<i>Cd93</i>	Cd93 molecule	Phagocytosis & cell adhesion of immune cells
1383152_at	BF544427	2	<i>Chidl1</i>	Chitinase domain containing 1	Regulates Th2 immune response
1368200_at	NM_134455	2	<i>Cx3cl1</i>	Chemokine ligand 1	Chemotactic for T-cells & monocytes
1370634_x_at	D87927	2	* <i>Cxcl3</i>	Chemokine ligand 3	Chemotactic for neutrophils
1388032_a_at	D87927	2	* <i>Cxcl3</i>	Chemokine ligand 3	Chemotactic for neutrophils
1368073_at	NM_012591	2	<i>Irf1</i>	Interferon regulatory factor 1	Activator of interferon transcription
1370928_at	BI284739	2	<i>Limgf</i>	Lipopolysaccharide-induced tnf factor	Regulates expression of inflammatory chemokines & cytokines
1387205_at	NM_022921	2	<i>Rtl-m3-1</i>	Rtl class Ib, locus m3, gene 1	Antigen processing & presentation
1388792_at	AI599423	2	<i>Gadd45g</i>	Growth arrest & dna-damage-inducible, γ	Th cell activation & Th1-Th2 balance
1393863_at	AA999005	3	<i>CD180</i>	Cd180 molecule	B cell survival & immune response to bacterial LPS
1389553_at	BF393825	3	<i>Clec4e3</i>	C-type lectin domain family 4, a3	Cell interaction & adhesion in antigen presenting cells
1372042_at	BI294844	3	<i>Crtm3</i>	Cklf-like marvel transmembrane domain containing 3	Regulation of humoral immune response
1389659_at	AI230591	3	<i>Clta2a</i>	--	T-cell activation
1388583_at	BF283398	3	<i>Cxcl12</i>	Chemokine ligand 12	Chemotactic for T-cells & monocytes
1381311_at	BE100625	3	<i>Emr1</i>	Egf-like module containing receptor 1	Macrophage & eosinophil-specific receptor
1373864_at	BM388810	3	<i>Map4k4</i>	Mitogen-activated PK kinase kinase kinase 4	Regulator of inflammatory cytokines expression
1390585_at	AI169829	3	<i>Mesp1</i>	Mannan-binding lectin serine peptidase 1	Complement pathway activation & pathogen recognition
1373153_at	AI230720	3	<i>Mog</i>	Myelin oligodendrocyte glycoprotein	Homophilic cell-cell adhesion
1391737_at	AW526210	3	<i>Ncf4</i>	Neutrophil cytosolic factor 4	ROS production for Pathogen killing
1384227_at	AI044031	3	<i>Ptpnk</i>	Protein tyrosine phosphatase, receptor type, k	Immune cell adhesion & T-cell development
1373283_at	BE113158	3	<i>Timpo</i>	Thymopoietin	T-cell development & function
1383189_at	AA818143	3	<i>Tnfrsf10</i>	Tumor necrosis factor superfamily, 10	Immune cell development & response
1372818_at	BI284441	4	<i>Colec12</i>	Collectin sub-family 12	Recognition & phagocytosis of pathogens
1373672_at	BM384419	4	* <i>Serpim69</i>	Serpin peptidase inhibitor, clade b, 9	Granzyme B inhibitor
1373592_at	AI407094	4	* <i>Serpim69</i>	Serpin peptidase inhibitor, clade b, 9	Granzyme B inhibitor
1370043_at	NM_031753	6	* <i>Alcam</i>	Activated leukocyte cell adhesion molecule	Cell adhesion & leukocyte activation
1382294_at	AI576111	6	* <i>Alcam</i>	Activated leukocyte cell adhesion molecule	Cell adhesion & leukocyte activation
1393917_at	BF555488	7	<i>Cd163</i>	Cd163 molecule	Scavenger receptor for Hb Hp, activated macrophage marker
1380055_at	BI296368	7	<i>IL34</i>	Interleukin 34	Stimulates differentiation & viability of monocytes & macrophages

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Others</i>					
1373595_at	BM385463	1	<i>Tmem43</i>	Transmembrane protein 43	Maintenance nuclear envelope structure
1376198_at	BI303342	2	<i>*Asam</i>	Adipocyte-specific adhesion molecule	Cell adhesion
1377639_at	BI275896	2	<i>*Asam</i>	Adipocyte-specific adhesion molecule	Cell adhesion
1398431_at	BI294910	2	<i>Car8</i>	Carbonic anhydrase viii	Binds to intracellular IP3-gated Ca2+ channel
1372002_at	AI411352	2	<i>Gja1</i>	Gap junction protein, α 1, 43kda	Component of gap junctions
1368473_at	NM_019280	2	<i>Gja5</i>	Gap junction protein, α 5, 40kda	Component of gap junctions
1387145_at	NM_017251	2	<i>Gjb1</i>	Gap junction protein, β 1, 32kda	Component of gap junctions
1375908_at	BI282616	2	<i>Mpz2</i>	Myelin protein zero-like 2	Homophilic cell-cell adhesion
1379361_at	BI273703	2	<i>Pex11a</i>	Peroxisomal biogenesis factor 11 α	Peroxisomal proliferation division
1376646_at	BF285164	2	<i>Popdc2</i>	Poppye domain containing 2	Integrity of tight junctions
1378181_at	BI279714	2	<i>Rpp40</i>	Ribonuclease p/mrp 40kda subunit	Maturation of tRNA
1376974_at	BG381669	2	<i>Ttc7</i>	Tetratricopeptide repeat domain 7a	Protein-protein interaction
1371516_at	BM391834	2	<i>Xpo7</i>	Exportin 7	Nuclear export of proteins
1390255_at	BG381583	3	<i>*Abhim3</i>	Actin binding lim protein family, 3	Scaffold protein involved in development & cancer
1391570_at	AI105070	3	<i>*Abhim3</i>	Actin binding lim protein family, 3	Scaffold protein involved in development & cancer
1371614_at	AI169001	3	<i>Atg12</i>	Autophagy related 12 homolog	Autophagy
1372056_at	AI406687	3	<i>Cntm6</i>	Cklf-like marvel transmembrane domain containing 6	Chemokine-like factor
1390145_at	AW524532	3	<i>Dmxc12</i>	Dmxc-like 2	Scaffold protein for MADD & RAB3GA
1372463_at	AI101084	3	<i>Fchd2</i>	Fch domain only 2	Membrane remodeling
1390901_at	BF543355	3	<i>Igsf10</i>	Immunoglobulin superfamily, 10	Maintenance of osteochondroprogenitor cells pool
1379258_at	AA998367	3	<i>Kelch5</i>	Kelch-like 5	Actin binding
1383080_at	BI292252	3	<i>Lamp2</i>	Lysosomal-associated membrane protein 2	Autophagy
1372110_at	BE113148	3	<i>Limh1</i>	Lim & calponin homology domains 1	Actin binding
1368964_at	NM_030856	3	<i>Lrrn3</i>	Leucine rich repeat neuronal 3	Protein-protein interaction
1389162_at	BI277328	3	<i>Nfu1</i>	Nfu1 iron-sulfur cluster scaffold homolog	Iron-sulfur cluster scaffold protein
1378753_at	AI638971	3	<i>Ocln</i>	Occludin	Formation & regulation of the tight junction
1371924_at	BI274355	3	<i>Olfml3</i>	Olfactomedin-like 3	Secreted scaffold protein
1373312_at	BI295064	3	<i>Prkdl</i>	Paroxysmal nonkinesigenic dyskinesia	Regulation of myofibrillogenesis
1387064_at	NM_017234	3	<i>Pxmp3</i>	Peroxisomal biogenesis factor 2	Biogenesis of peroxisomes

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Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>Others</i>					
1375450_at	BF403864	3	<i>Sdccag1</i>	Serologically defined colon cancer antigen 1	Auto antigen
1398988_at	BE110642	3	<i>Schl1</i>	Sec13-like protein 1 like	Component of the nuclear pore complex
1389395_at	BI275654	3	<i>Scpt1</i>	Selenoprotein n, 1	Oxidative stress
1367550_a_at	BI287742	3	<i>*Tm2d1</i>	Tm2 domain containing 1	Interaction with β -APP42
1385338_a_at	BF287928	3	<i>*Tm2d1</i>	Tm2 domain containing 1	Interaction with β -APP42
1383680_at	BG376339	3	<i>Tmem132a</i>	Transmembrane protein 132a	Regulates cAMP-induced GFAP gene expression
1372232_at	AI170808	3	<i>Wbp1</i>	Ww domain binding protein 1	Protein-protein interaction
1399030_at	AA809682	3	<i>Wdr45</i>	Wd repeat domain 45	Autophagy
1383651_a_at	AA964509	3	<i>Wdr45l</i>	Wdr45-like	Interaction with phospholipids
1374509_at	BI275722	3	<i>Wip2</i>	Wd repeat domain, phosphoinositide interacting 2	Progression of organelles into autophagosomes
1376711_at	BG673439	4	<i>Cldn11</i>	Claudin 11	Tight junction-specific obliteration of the intercellular space
1381996_at	BG666712	4	<i>*Gpm6b</i>	Glycoprotein m6b	Cell-to-cell communication
1370389_at	AB036421	4	<i>*Gpm6b</i>	Glycoprotein m6b	Cell-to-cell communication
1373151_at	AW252169	4	<i>Lhfp</i>	Lipoma hmgic fusion partner	Translocation-associated lipoma
1383224_at	BF525012	4	<i>Par6dbb</i>	Par-6 partitioning defective 6 homolog β	Formation of epithelial tight junctions
1385274_at	AW526381	4	<i>Podtb19</i>	Protocadherin β 19	Cell adhesion
1382480_at	AI060139	5	<i>Atnx2</i>	Ataxin 2	Interacts with polyribosomes
1374156_at	BE108018	6	<i>*Mpp5</i>	Membrane protein, palmitoylated 5	Tight junctions biogenesis in epithelial cells
1376009_at	BI300199	6	<i>Crag5</i>	Ctage family, 5	Tumor antigen
1376175_at	BF283433	6	<i>Glas</i>	Glioblastoma amplified sequence	Associated with mitochondrial translation
1382363_at	AI072027	6	<i>*Mpp5</i>	Membrane protein, palmitoylated 5	Tight junctions biogenesis in epithelial cells
1397535_at	BF555544	6	<i>*Mpp5</i>	Membrane protein, palmitoylated 5	Tight junctions biogenesis in epithelial cells
1384183_at	AA996869	6	<i>Mypip</i>	Myosin via & rab interacting protein	exocytosis of bacterial pathogens
1385229_at	AW524146	6	<i>*Pcdh20</i>	Protocadherin 20	Calcium-dependent cell-adhesion
1376623_at	AI409186	6	<i>Tmem204</i>	Transmembrane protein 204	Influence paracellular permeability
1394834_at	BF393831	6	<i>Wdfp3</i>	Wd repeat & fyve domain containing 3	Autophagy
1371818_at	AW251204	6	<i>Xpot</i>	Exportin, trna	Nuclear export of aminoacylated tRNAs
1370991_at	AF187814	7	<i>Cml3</i>	Camello-like protein 3	Cell adhesion
1391208_at	BG379836	7	<i>*Pcdh20</i>	Protocadherin 20	Calcium-dependent cell-adhesion

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<i>Others</i>					
1388866_at	AA799392	7	<i>Sypn</i>	Sarcospan	Component of the dystrophin-glycoprotein complex
1378252_at	AI029745	8	<i>Chodl</i>	Chondrolectin	Endocytosis of glycoproteins & exogenous sugar-bearing pathogens
1378805_at	BE104220	8	<i>Cttn2</i>	Contactin 2	Cell adhesion
1376470_at	BG372703	UC	<i>Frbp4</i>	Formin binding protein 4	Binds to Pro-Arg-rich cellular proteins
<i>EST/Unknown</i>					
1377940_at	BF398271	1	<i>*Fam101b</i>	Family with sequence similarity 101, b	---
1378168_at	BG377391	1	<i>*Fam101b</i>	Family with sequence similarity 101, b	---
1389085_at	BI296359	1	<i>*Fam101b</i>	Family with sequence similarity 101, b	---
1377695_at	BF281135	1	<i>*Sntn2</i>	Smoothelin-like 2	---
1385171_s_at	BE115612	1	<i>*Sntn2</i>	Smoothelin-like 2	---
1369076_at	NM_021671	1	<i>Tmem33</i>	Transmembrane protein 33	---
1375088_at	BF404846	1	---	---	---
1377917_at	AI104595	1	---	---	---
1383642_at	BG374114	1	---	---	---
1393075_at	BF386199	1	---	---	---
1394101_at	BE109260	1	---	---	---
1379833_at	BE110171	---	---	---	---
1393197_at	BG376055	2	<i>Abhd8</i>	Abhydrolase domain containing 8	---
1379333_at	BI296377	2	<i>Armcx6</i>	Armadillo repeat containing, x-linked 6	---
1393119_at	BM388725	2	---	---	---
1398024_at	BE110250	2	---	---	---
1390843_at	AI229827	2	<i>Ccdc102a</i>	Coiled-coil domain containing 102a	---
1383312_at	BF396751	2	<i>Ccdc120</i>	Coiled-coil domain containing 120	---
1374277_at	BI289615	2	<i>Ccnj1</i>	Cyclin J-like	---
1374416_at	AI169330	2	<i>Chchd8</i>	Coiled-coil-helix-coiled-coil-helix domain containing 8	---
1392739_a_at	AI454794	---	<i>Eqp1</i>	Endonuclease/exonuclease/phosphatase family domain 1	---
1376770_at	BM389214	2	<i>Ejhd1</i>	E-F-h& domain family, d1	---
1398387_at	AI009530	2	<i>Fam198b</i>	Family with sequence similarity 198, b	---
1373727_at	BI275179	---	<i>Fibin</i>	Fin bud initiation factor homolog	---

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<i>EST/Unknown</i>					
1372234_at	AA800950	2	<i>Lix1l</i>	Lix1 homolog -like	---
1379482_at	B1283829	2	<i>Tm6sfl</i>	Transmembrane 6 superfamily 1	---
1384388_at	H34273	2	<i>Tmed9</i>	Transmembrane emp24 protein transport domain 9	---
1372935_at	A1598550	2	<i>Tmem119</i>	Transmembrane protein 119	---
1390042_at	A1071166	2	<i>Tmem140</i>	Transmembrane protein 140	---
1399092_at	BG378899	2	<i>Tmem39b</i>	Transmembrane protein 39b	---
1371731_at	A1408151	2	---	---	---
1372154_at	AW521019	2	---	---	---
1372454_at	BG378568	2	---	---	---
1372721_at	A1175447	2	---	---	---
1373641_at	B1301187	2	---	---	---
1374029_at	A1229596	2	---	---	---
1375645_at	A1408842	2	---	---	---
1375733_at	AW520755	2	---	---	---
1376146_at	B1282272	2	---	---	---
1376160_at	BF408850	2	---	---	---
1376379_a_at	AW252141	2	---	---	---
1377330_at	BF411114	2	---	---	---
1378315_at	A1045116	2	---	---	---
1379043_at	B1284837	2	---	---	---
1379436_a_at	AA945875	2	---	---	---
1381409_at	AA963978	2	---	---	---
1381923_at	A1454658	2	---	---	---
1382302_at	A1044633	2	---	---	---
1382305_at	A1236814	2	---	---	---
1382404_at	BG669741	2	---	---	---
1382914_at	AA924097	2	---	---	---
1384097_at	A1146081	2	---	---	---
1385093_at	BG379949	2	---	---	---

* Genes represented by multiple probe sets

Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1385926_at	BF550565	2	---	---	---
1390841_at	BI290420	2	---	---	---
1391122_at	BE110610	2	---	---	---
1392001_at	AI232305	2	---	---	---
1392549_at	AA875587	2	---	---	---
1393062_at	BI275419	2	---	---	---
1393135_at	BM390238	2	---	---	---
1393263_at	AW522530	2	---	---	---
1394524_at	AW921279	2	---	---	---
1395753_at	BI274506	2	---	---	---
1396620_at	BE111348	2	---	---	---
1397781_at	BF414751	2	---	---	---
1397944_at	BE096457	2	---	---	---
1398131_at	BE096035	2	---	---	---
1393696_at	AA818846	2	---	---	---
1389456_at	BI296591	2	---	---	---
1371332_at	AA848821	2	---	---	---
1390199_at	BM389647	2	---	---	---
1371636_at	BE104321	3	<i>Ankrd13c</i>	Ankyrin repeat domain 13c	---
1374615_at	AI175668	3	<i>Ankrd44</i>	Ankyrin repeat domain 44	---
1398894_at	AI178763	3	<i>Commf3</i>	Comm domain containing 3	---
1374355_at	BI289733	3	<i>Fam113b</i>	Family with sequence similarity 113, b	---
1389007_at	AI231799	3	<i>Fam189a2</i>	Family with sequence similarity 189, a2	---
1375346_at	BI290002	3	<i>Gm5617</i>	---	---
1398996_at	AI1007987	3	<i>Loc683402</i>	---	---
1392301_at	AI237897	3	<i>Sh3cl</i>	Sh3 domain & tetratricopeptide repeats 1	---
1383494_at	BF414338	3	<i>Srbdl</i>	S1 rna binding domain 1	---
1389656_at	AA851945	3	<i>Tspan-15</i>	Tetraspanin 15	---
1373524_at	AA946482	3	---	---	---

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1374496_at	BG380570	3	---	---	---
1376581_at	AW433895	3	---	---	---
1378462_at	BE107396	3	---	---	---
1381408_at	BI275477	3	---	---	---
1381975_at	BG371767	3	---	---	---
1382017_at	A1012949	3	---	---	---
1390151_at	BM392146	3	---	---	---
1390153_at	BG378721	3	---	---	---
1391131_at	BE112995	3	---	---	---
1373507_at	A1232810	3	<i>Acbd5</i>	Acyl-coenzyme a binding domain containing 5	---
1372742_at	A1410058	3	<i>Ankmy2</i>	Ankyrin repeat & mynd domain containing 2	---
1379669_at	BI275651	3	<i>Arhgap42</i>	Rho gtpase activating protein 42	---
1383246_at	AI146111	3	<i>Armc7</i>	Armadillo repeat containing 7	---
1383422_at	AW252401	3	<i>Bend5</i>	Ben domain containing 5	---
1377194_a_at	BE107471	3	<i>Ccdc90b</i>	Coiled-coil domain containing 90b	---
1372801_at	AI171256	3	<i>Commf10</i>	Comm domain containing 10	---
1379425_at	A1549208	3	<i>Dem1</i>	Defects in morphology 1 homolog	---
1374400_at	BI291528	3	<i>Efr3a</i>	Efr3 homolog a	---
1372621_at	AI179588	3	<i>Fam176b</i>	Family with sequence similarity 176, b	---
1388688_at	BI296599	3	<i>Fam190b</i>	Family with sequence similarity 190, b	---
1388817_at	BI284848	3	<i>Fam63a</i>	Family with sequence similarity 63, a	---
1383316_at	BF409313	3	<i>Hdde2</i>	Hd domain containing 2	---
1376861_at	AW525240	3	<i>Mospd1</i>	Motile sperm domain containing 1	---
1395928_at	BE102495	3	---	---	---
1367513_at	BI284935	3	<i>Tm9sf4</i>	Transmembrane 9 superfamily protein 4	---
1374948_at	BI275815	3	<i>Tmem106a</i>	Transmembrane protein 106a	---
1371634_at	BE107851	3	<i>Tmem126a</i>	Transmembrane protein 126a	---
1374368_at	BI291066	3	<i>Tmem164</i>	Transmembrane protein 164	---
1375067_at	AI555354	3	<i>Tmem170b</i>	Transmembrane protein 170b	---

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1376571_at	BI28597	3	<i>Tmem42</i>	Transmembrane protein 42	---
1372100_at	BI283746	3	<i>Tmem50a</i>	Transmembrane protein 50a	---
1392683_at	AW142773	3	<i>Tmem71</i>	Transmembrane protein 71	---
1373248_at	BI292079	3	<i>Vsig10</i>	V-set & immunoglobulin domain containing 10	---
1371666_at	BM385852	3	---	---	---
1371999_at	BI303641	3	---	---	---
1373651_at	BE103440	3	---	---	---
1374106_at	AI412389	3	---	---	---
1374322_at	AA893980	3	---	---	---
1374544_at	BM384374	3	---	---	---
1374717_at	BI295624	3	---	---	---
1375649_at	BF396469	3	---	---	---
1377790_at	BE115859	3	---	---	---
1378081_at	BI285065	3	---	---	---
1379359_at	BF407675	3	---	---	---
1380318_at	BF401102	3	---	---	---
1381043_at	AI639256	3	---	---	---
1381316_at	BF388256	3	---	---	---
1381491_at	BE097634	3	---	---	---
1382211_at	AI602542	3	---	---	---
1382252_at	BE099808	3	---	---	---
1382328_at	AW918029	3	---	---	---
1382436_at	BM386497	3	---	---	---
1383058_at	AI410438	3	---	---	---
1383611_at	AI145497	3	---	---	---
1384481_at	BG376273	3	---	---	---
1385798_at	AW533857	3	---	---	---
1388412_at	BI284376	3	---	---	---
1389782_at	AI408993	3	---	---	---

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1389805_at	BF400933	3	---	---	---
1390517_at	BM392260	3	---	---	---
1390743_at	BF408616	3	---	---	---
1390907_at	AI145039	3	---	---	---
1391338_at	AI603449	3	---	---	---
1392023_at	AW434002	3	---	---	---
1393227_at	A1045138	3	---	---	---
1393309_at	AI145786	3	---	---	---
1395994_at	BE116471	3	---	---	---
1397217_at	BF408757	3	---	---	---
1397713_at	AW917120	3	---	---	---
1399157_at	AA849312	3	---	---	---
1379703_at	BF288207	4	<i>Denn43</i>	Denn/madd domain containing 3	---
1383103_at	BE110514	4	<i>Fam172a</i>	Family with sequence similarity 172, a	---
1398727_at	BF398091	4	<i>Fam24a</i>	Family with sequence similarity 24, a	---
1382266_at	A1500893	4	<i>Gpr146</i>	G protein-coupled receptor 146	---
1393806_at	BE107400	4	<i>Mansc1</i>	Mansc domain containing 1	---
1369917_at	NM_139259	4	<i>Nradd</i>	Neurotrophin receptor associated death domain	---
1392670_at	BF291168	4	<i>Wwc2</i>	Ww & c2 domain containing 2	---
1371333_at	AI180251	4	---	---	---
1372059_at	AA891759	4	---	---	---
1372268_at	BI294852	4	---	---	---
1372749_at	A1009786	4	---	---	---
1373076_at	A1411577	4	---	---	---
1373887_at	BF523561	4	---	---	---
1374505_at	A1411031	4	---	---	---
1374990_at	A1233786	4	---	---	---
1375056_at	AA943310	4	---	---	---
1376610_a_at	BE109163	4	---	---	---

* Genes represented by multiple probe sets

Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1377238_at	BM386889	4	---	---	---
1378540_at	B1294763	4	---	---	---
1378814_at	BF387902	4	---	---	---
1378998_at	A1071538	4	---	---	---
1379085_at	BF396507	4	---	---	---
1379382_at	A1144865	4	---	---	---
1380180_at	AW528635	4	---	---	---
1381027_at	BF393571	4	---	---	---
1381058_at	A1548492	4	---	---	---
1381535_at	A1715442	4	---	---	---
1382820_at	A1176342	4	---	---	---
1383919_at	A1070704	4	---	---	---
1384216_at	AW534148	4	---	---	---
1384486_at	B1288961	4	---	---	---
1384717_at	AA894199	4	---	---	---
1388446_at	BF397834	4	---	---	---
1389150_at	AW524559	4	---	---	---
1390187_at	A1060043	4	---	---	---
1390463_at	BG378294	4	---	---	---
1391325_at	BF397406	4	---	---	---
1392618_at	BG379597	4	---	---	---
1393019_at	BG372243	4	---	---	---
1393025_at	B1297354	4	---	---	---
1393334_at	AW528448	4	---	---	---
1393898_at	AA998222	4	---	---	---
1394726_at	A1412564	4	---	---	---
1394766_at	AW534610	4	---	---	---
1394779_at	A1717218	4	---	---	---
1397184_at	A1574688	4	---	---	---

* Genes represented by multiple probe sets

Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1397266_at	AA946437	4	---	---	---
1397624_at	B1300158	4	---	---	---
1398886_at	B1285703	4	---	---	---
1399001_at	B1285943	4	---	---	---
1393632_at	A1501709	5	<i>Clqmf7</i>	Clq & tumor necrosis factor related protein 7	---
1399150_at	AW144400	5	<i>Fam116a</i>	Family with sequence similarity 116, a	---
1383155_at	AA945854	5	<i>Fam117b</i>	Family with sequence similarity 117, b	---
1373068_at	A1236977	5	<i>Ifi42</i>	Interferon-related developmental regulator 2	---
1375898_at	AW252379	5	---	---	---
1379719_at	A1408386	5	---	---	---
1390831_at	BF407157	5	---	---	---
1392249_at	A1145746	5	---	---	---
1395275_at	BM390168	5	---	---	---
1396773_at	BF391930	5	---	---	---
1398522_at	BM386512	6	<i>Ankle2</i>	Ankyrin repeat & lem domain containing 2	---
1388176_at	A1717047	6	<i>Cmi5</i>	Camelto-like 5	---
1385108_at	AW524173	6	<i>Fam126b</i>	Family with sequence similarity 126, b	---
1391780_at	BG373221	6	<i>*Fam46b</i>	Family with sequence similarity 46, b	---
1384081_at	BG372643	6	<i>*Fam46b</i>	Family with sequence similarity 46, b	---
1390171_at	AA924717	6	<i>Fam76a</i>	Family with sequence similarity 76, a	---
1393610_at	A1137173	6	<i>Fam76a</i>	Family with sequence similarity 76, a	---
1395966_at	B1282914	6	<i>Kcd14</i>	Potassium channel tetramerisation domain containing 14	---
1377492_at	BM387395	6	<i>Rprml</i>	Reprimo-like	---
1373850_at	AW251315	6	<i>Snpd3b</i>	Sphingomyelin phosphodiesterase, acid-like 3b	---
1379627_at	AW534630	6	<i>Tm9f3</i>	Transmembrane 9 superfamily 3	---
1398553_at	A1137113	6	<i>Tmed5</i>	Transmembrane emp24 protein transport domain containing 5	---
1392652_at	A1060083	6	<i>Tmem116</i>	Transmembrane protein 116	---
1392490_at	BM390676	6	<i>Tmem57</i>	Transmembrane protein 57	---
1395058_at	A1556441	6	<i>Wdr75</i>	Wd repeat domain 75	---

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1385783_at	BF418697	6	<i>Wwc2</i>	Ww & c2 domain containing 2	---
1395525_at	AW921946	6	<i>Wwc2</i>	Ww & c2 domain containing 2	---
1374991_at	BE107630	6	<i>Ydjc</i>	Ydjc homolog	---
1367498_at	AI177873	6	<i>Yhdj1</i>	Yth domain family, 1	---
1382199_at	BF288776	6	<i>Zcchc14</i>	Zinc finger, ehc domain containing 14	---
1372213_at	BM390487	6	---	---	---
1373699_at	BM391164	6	---	---	---
1374434_at	BI291703	6	---	---	---
1377148_at	AI412344	6	---	---	---
1378982_at	AI145793	6	---	---	---
1379137_at	BF387378	6	---	---	---
1379141_at	BF402028	6	---	---	---
1380326_at	BF388747	6	---	---	---
1380365_at	BF403932	6	---	---	---
1380777_at	BF399517	6	---	---	---
1380882_at	BF390857	6	---	---	---
1380923_at	AI236047	6	---	---	---
1380937_at	BE106331	6	---	---	---
1381165_at	BF403479	6	---	---	---
1381786_at	BE114356	6	---	---	---
1382106_at	AA848629	6	---	---	---
1382534_at	BF284898	6	---	---	---
1382742_at	AI176758	6	---	---	---
1385973_at	AI717265	6	---	---	---
1391002_at	AA801280	6	---	---	---
1391065_at	BG373309	6	---	---	---
1392177_at	BF400937	6	---	---	---
1392316_at	BI293349	6	---	---	---
1392504_at	BI297184	6	---	---	---

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1392627_x_at	BI282114	6	---	---	---
1392675_at	AI044784	6	---	---	---
1392838_at	BF398054	6	---	---	---
1393909_at	BF544438	6	---	---	---
1394574_at	BF398290	6	---	---	---
1395030_at	BM390366	6	---	---	---
1395178_at	AI556682	6	---	---	---
1395859_at	BI293415	6	---	---	---
1397225_at	AA875647	6	---	---	---
1397380_at	BG376947	6	---	---	---
1397453_at	BM390792	6	---	---	---
1397915_at	AW526790	6	---	---	---
1398051_at	BF392993	6	---	---	---
1398126_at	AW529975	6	---	---	---
1374139_at	BG671589	7	<i>Cbr2</i>	Cerebellar degeneration-related protein 2, 62kda	---
1378156_at	BE109002	7	<i>Cys1</i>	Cystin 1	---
1392510_at	BF283618	7	<i>Fam180a</i>	Family with sequence similarity 180, a	---
1373310_at	BF396512	7	---	---	---
1374176_at	AI408727	7	---	---	---
1378292_at	BE096367	7	---	---	---
1379477_at	AI555261	7	---	---	---
1382031_at	AA859079	7	---	---	---
1390770_at	BF396139	7	---	---	---
1397070_at	BF402703	7	---	---	---
1397820_at	BF553729	7	---	---	---
1398662_at	AA901088	UC	<i>Fam167a</i>	Family with sequence similarity 167, a	---
1393505_x_at	AI045965	UC	<i>Fam63b</i>	Family with sequence similarity 63, b	---
1391998_at	BE107625	UC	<i>Phf20l1</i>	Phd finger protein 20-like 1	---
1376061_at	AW525033	UC	---	---	---

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Table S2. Detailed functional categorizations of probe sets showing circadian oscillations in expression

Probe ID	Accession #	Cluster	Symbol	Gene name	Function
<i>EST/Unknown</i>					
1388678_at	AI176695	UC	---	---	---
1395762_at	BG670091	UC	---	---	---

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