

Table. S1. Significant changes in the gene expression after 9-*cis*-retinyl acetate treatment in the whole eye^a.

Changes in the expression	S.D. ^b	Description ^c	Symbol	Gene name
Increased (more than 2.0 fold)				
5.56	1.61	X16670	not found	Mouse RNA for type IIB intracisternal A-particle (IAP) element encoding integrase
5.49	1.37	Mm.255292	Gabrg1	Gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 1
5.45	2.89	BC044668	not found	Mus musculus, clone IMAGE:3492886
5.20	1.22	Mm.9002	Ube3a	Ube3a: Ubiquitin protein ligase E3A, transcript variant 2
4.82	1.54	Mm.378496	4930527E24Rik	PREDICTED: Mus musculus RIKEN cDNA 4930527E24 gene
4.55	0.55	Mm.14300	Xmr	Xlr-related, meiosis regulated
4.54	0.98	Mm.109633	4930595M18Rik	RIKEN cDNA 4930595M18 gene
4.22	1.12	Mm.337649	not found	Activated spleen cDNA, RIKEN
4.21	0.93	Mm.320593	Dach1	DACH protein
4.17	0.19	Mm.305393	Plf	Mitogen regulated protein, proliferin 3
4.16	2.07	BC044668	not found	Mus musculus, clone IMAGE:3492886
4.10	0.99	Mm.124595	A330008L17Rik	RIKEN cDNA A330008L17 gene
4.08	0.93	Mm.229114	BC004690	CDNA sequence BC004690
3.90	0.85	Mm.5040	Htr1f	5-hydroxytryptamine (serotonin) receptor 1F
3.87	1.52	Mm.375125	pCEPa88	Non-allelic mRNA for pancreatic alpha-amylase isozyme 3' end
3.86	1.75	X16670	not found	Mouse RNA for type IIB intracisternal A-particle (IAP) element encoding integrase, clone 106
3.79	0.66	Mm.196822	Krtap16-9	Keratin associated protein 16-9
3.77	0.66	Mm.304287	LOC382133	Similar to RIKEN cDNA 1700029H17
3.71	0.63	Mm.245406	not found	Clone NIA:K0976C05 unknown

3.71	0.43	Mm.38762	Elmod2	ELMO domain containing 2
3.69	0.64	Mm.291725	not found	Similar to spermiogenesis specific transcript on the Y 2 (LOC435023)
3.67	1.77	M12312	not found	Mouse (strain 129 G-IX+) endogenous murine leukemia virus
3.67	0.08	Mm.271252	2610036F08Rik	RIKEN cDNA 2610036F08 gene
3.63	1.81	BC002127	not found	Mus musculus, clone IMAGE
3.61	0.55	Mm.80120	not found	Adult male olfactory brain cDNA
3.60	0.44	Mm.101504	C530008M17Rik	RIKEN cDNA C530008M17 gene
3.57	1.18	Mm.313321	Rfx3	Regulatory factor X, 3 (influences HLA class II expression)
3.56	1.00	Mm.129498	Srd5a2l2	Steroid 5 alpha-reductase 2-like 2
3.56	0.89	Mm.221412	Hdgfrp3	Hdgfrp3: Hepatoma-derived growth factor, related protein 3
3.56	1.65	Mm.272733	2810426N06Rik	RIKEN cDNA 2810426N06 gene
3.51	0.75	Mm.28152	1200016D23Rik	1200016D23Rik: SCY1-like 3 (S. cerevisiae)
3.50	0.30	Mm.39101	Fut9	Fucosyltransferase 9
3.48	0.57	Mm.260760	Sh3bgrl	SH3-binding domain glutamic acid-rich protein like
3.47	1.05	Mm.14255	Apbb1ip	Apbb1ip: Amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein
3.43	0.49	Mm.379940	Cfh	Cfh: Complement component factor h
3.43	0.92	Mm.133101	Shprh	Shprh: SNF2 histone linker PHD RING helicase
3.42	0.60	Mm.304354	Sly	Sycp3 like Y-linked (Sly)
3.42	1.04	X16670	not found	not found
3.41	0.33	Mm.328751	Zdhhc14	Zinc finger, DHHC domain containing 14
3.40	0.58	Mm.222517	Dhtkd1	Dhtkd1: MKIAA1630 protein
3.39	0.63	Mm.7060	Naalad2	Naalad2: N-acetylated alpha-linked acidic dipeptidase 2
3.38	0.48	Mm.326477	Zfp445	Zfp445: Zinc finger protein 445
3.37	0.79	Mm.103382	Ppfibp1	Ppfibp1: MKIAA1230 protein
3.35	0.31	Mm.181061	Phyhip1	Phyhip1: Phytanoyl-CoA hydroxylase interacting protein-like
3.34	0.61	AK045941	not found	Mus musculus adult male corpora quadrigemina cDNA

3.34	0.80	Mm.380192	Ott	PREDICTED: Mus musculus similar to Ott protein (LOC546386)
3.32	0.87	U16670	not found	Mus musculus clone CCD40 LINE-1 element ORF1
3.31	0.27	Mm.108239	Pramel3	Preferentially expressed antigen in melanoma-like 3
3.30	0.69	AK011924	not found	Mus musculus 10 days embryo whole body cDNA
3.29	0.65	Mm.359011	5330408M12Rik	Transmembrane protein 67
3.28	1.19	Mm.304287	LOC382133	Similar to RIKEN cDNA 1700029H17
3.28	0.38	Mm.253264	6030408C04Rik	RIKEN cDNA 6030408C04 gene
3.27	0.76	Mm.328807	Lnpep	Leucyl/cystinyl aminopeptidase
3.26	0.87	Mm.159452	4930542N07Rik	RIKEN cDNA 4930542N07 gene
3.26	0.44	Mm.327405	Ott	Ovary testis transcribed
3.24	0.30	Mm.252404	C630025C03	Hypothetical protein C630025C03
3.23	0.56	Mm.296022	Mme	Membrane metallo endopeptidase
3.21	0.56	Mm.247383	Gm1961	Gm1961: Gene model 1961, (NCBI)
3.20	0.54	Mm.222639	V1re3	Vomer nasal 1 receptor, E3
3.20	0.48	Mm.55711	not found	CDNA clone MGC:58416 IMAGE:6707555
3.19	0.68	Mm.41728	Echdc1	Echdc1: Enoyl Coenzyme A hydratase domain containing 1
3.17	0.56	Mm.271252	2610036F08Rik	RIKEN cDNA 2610036F08 gene
3.17	0.46	Mm.363960	Tmed5	Tmed5: Transmembrane emp24 protein transport domain containing 5
3.17	0.64	Mm.33870	Elp4	Elongation protein 4 homolog (<i>S. cerevisiae</i>)
3.12	1.04	Mm.179050	Hormad1	HORMA domain containing 1
3.11	0.44	Mm.383294	Gpr82	G protein-coupled receptor 82
3.10	0.56	Mm.313904	9430031J16Rik	9430031J16Rik: RIKEN cDNA 9430031J16 gene
3.10	0.71	Mm.259595	Zfhx1b	Zinc finger homeobox 1b
3.09	0.59	Mm.304287	LOC382133	Similar to RIKEN cDNA 1700029H17
3.08	0.63	Mm.304354	Sly	Syp3 like Y-linked
3.08	0.53	Mm.42140	Zfp53	Zinc finger protein 53

3.06	0.93	Mm.259333	Pik3r1	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
3.06	0.58	Mm.244348	Lrrtm3	Lrrtm3: Leucine rich repeat transmembrane neuronal 3
3.06	0.62	Mm.129498	Srd5a2l2	Steroid 5 alpha-reductase 2-like 2
3.05	0.60	Mm.63546	5430406M13Rik	PREDICTED: RIKEN cDNA 5430406M13 [Mus musculus]
3.05	0.36	Mm.360649	A830006F12Rik	A830006F12Rik: RIKEN cDNA A830006F12 gene
3.05	0.52	Mm.11662	Slco4c1	Slco4c1: Solute carrier organic anion transporter family, member 4C1
3.05	0.41	AB010312	not found	Mus musculus mRNA for mszf11, partial cDNA
3.04	0.77	Mm.29201	Gbe1	Glucan (1,4-alpha-), branching enzyme 1
3.04	0.45	Mm.278584	Ccnc	Cyclin C
3.03	0.06	Mm.110270	B230217C12Rik	PREDICTED: RIKEN cDNA B230217C12 [Mus musculus]
3.02	0.38	Mm.38271	Rgs13	Rgs13: Regulator of G-protein signaling 13
3.01	0.36	Mm.102970	Mtmr13	Mtmr13: Myotubularin related protein 13
3.01	0.92	Mm.195092	Zfp260	Zfp260: Zinc finger protein 260
3.01	0.31	Mm.87352	Rnf32	Ring finger protein 32
3.00	0.61	Mm.175502	2010109A12Rik	Adult male small intestine cDNA
2.98	0.63	Mm.137011	Tbx22	T-box 22
2.98	0.39	Mm.220204	Osbpl8	Osbpl8: Oxysterol binding protein-like 8 (Osbpl8), transcript variant 2
2.97	0.43	Mm.320791	Gpc5	Glypican 5
2.97	0.22	Mm.26794	2010321J07Rik	UDP glucuronosyltransferase 2 family, polypeptide A3
2.96	0.35	NM_178606	not found	Mus musculus DNA segment
2.96	0.96	Mm.415	Iapp	Iapp: Islet amyloid polypeptide
2.94	0.08	Mm.133101	Shprh	Shprh: SNF2 histone linker PHD RING helicase
2.94	0.24	Mm.93759	E030025D05Rik	RIKEN cDNA E030025D05 gene
2.94	0.49	AK052529	not found	Mus musculus 13 days embryo lung cDNA
2.92	0.29	Mm.144157	Ghrh	Ghrh: Growth hormone releasing hormone
2.92	0.61	Mm.46005	2600011C06Rik	RIKEN cDNA 2600011C06 gene

2.90	0.17	Mm.5309	Gabrg2	Gabrg2: Gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 2
2.90	0.69	Mm.146262	B230315F11Rik	RIKEN cDNA B230315F11 gene
2.90	0.58	Mm.304287	LOC382133	Similar to RIKEN cDNA 1700029H17
2.89	0.22	Mm.10929	Fmo2	Fmo2: Flavin containing monooxygenase 2
2.88	0.16	Mm.197520	Fbxo5	Fbxo5: F-box only protein 5
2.88	0.87	Mm.209844	Plekhk1	Plekhk1: Membrane-bound factor MBF1
2.88	0.46	AK087573	not found	Mus musculus 2 days pregnant adult female oviduct cDNA
2.88	0.50	Mm.377319	Olfr208	Olfactory receptor 208 (Olfr208)
2.87	0.47	Mm.255292	Gabrg1	Gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 1
2.86	0.39	Mm.99517	D930038D03Rik	RIKEN cDNA D930038D03 gene
2.85	0.79	X16669	not found	Mouse mRNA for type IIB intracisternal A-particle (IAP) element encoding integrase, clone 103
2.85	0.26	Mm.45843	Slc6a15	Slc6a15: Solute carrier family 6 (neurotransmitter transporter), member 15
2.85	0.77	Mm.215159	Plekhk2	Pleckstrin homology domain containing, family H (with MyTH4 domain) member 2
2.84	0.14	Mm.271334	Olfr1080	Olfactory receptor 1080
2.84	0.44	Mm.297657	B230312I18Rik	RIKEN cDNA B230312I18 gene
2.83	0.76	Mm.304354	Sly	Sycp3 like Y-linked
2.83	0.14	AK035861	not found	Mus musculus 16 days neonate cerebellum cDNA
2.83	0.77	Mm.223407	Olfr1054	Olfactory receptor 1054
2.83	0.33	Mm.321671	Cntn6	Cntn6: Contactin 6
2.82	0.60	Mm.259969	1110030H10Rik	LysM, putative peptidoglycan-binding, domain containing 3
2.80	0.08	Mm.26760	Lrrc19	Leucine rich repeat containing 19
2.80	0.22	Mm.359528	Ssty2	Spermiogenesis specific transcript on the Y 2
2.79	0.55	Mm.335300	Hcrtr2	Hcrtr2: Hypocretin (orexin) receptor 2
2.79	0.46	Mm.311840	Dlgap1	Discs, large (Drosophila) homolog-associated protein 1, transcript variant 2
2.79	0.84	Mm.261453	Ect2	Ect2 oncogene
2.78	0.26	Mm.381759	not found	CDNA clone IMAGE:6819153

2.77	0.38	Mm.302938	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked3470
2.77	0.18	Mm.108037	Cyp2r1	Cyp2r1: Cytochrome P450 2R1
2.77	0.41	Mm.377538	Olf945	Olf945: Olfactory receptor 945
2.76	0.36	Mm.259632	Cadps2	Cadps2: Ca ²⁺ -dependent activator protein for secretion 2
2.76	0.65	Mm.10763	Diap2	Dia protein
2.76	0.13	Mm.77065	Zbtb1	Zinc finger and BTB domain containing 1
2.76	0.38	Mm.276400	F730023N20	Hypothetical protein F730023N20
2.76	0.60	Mm.246610	4831428F09	4831428F09: Hypothetical protein 4831428F09
2.75	0.41	Mm.212411	Phf14	Phf14: PHD finger protein 14
2.74	0.41	Mm.123811	not found	3 days neonate thymus cDNA
2.74	0.22	AK051807	not found	Mus musculus 12 days embryo eyeball cDNA
2.74	0.45	Mm.174256	Tpr	Tpr: Translocated promoter region
2.74	0.33	Mm.19298	Atp6v0d2	ATPase, H ⁺ transporting, V0 subunit D, isoform 2
2.72	0.62	Mm.349819	not found	Clone NIA:C0333F07 unknown
2.71	0.22	Mm.330387	Olf1257	Olfactory receptor 1257
2.71	0.43	Mm.134093	Sema3e	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E
2.71	0.61	Mm.6824	Sult1d1	Sulfotransferase family 1D, member 1
2.71	0.60	Mm.387244	9930116O05Rik	In vitro fertilized eggs cDNA
2.70	0.12	Mm.204670	Txndc1	Thioredoxin domain containing 1
2.70	0.30	Mm.278726	Mak3	Mak3 homolog (<i>S. cerevisiae</i>)
2.70	0.34	Mm.377900	V1rd12	Vomer nasal 1 receptor, D12
2.69	0.46	NM_175435	not found	not found
2.69	0.10	Mm.57223	Hells	Helicase, lymphoid specific
2.69	0.36	Mm.222640	V1rc25	V1rc25: Vomer nasal 1 receptor, C25
2.69	0.59	Mm.242576	Dgkb	Diacylglycerol kinase, beta
2.68	0.69	Mm.237772	Mup1	Major urinary protein 1

2.68	0.20	Mm.8062	Zic4	Zic4: Zinc finger protein of the cerebellum 4
2.68	0.31	Mm.223388	Olf181	Olfactory receptor 181
2.68	0.52	Mm.89985	V1rb2	V1rb2: Vomeronasal 1, receptor B2
2.67	0.35	Mm.358972	BC021442	CDNA sequence BC021442
2.67	0.18	Mm.3645	Myo5a	Myo5a: Myosin Va
2.66	0.29	Mm.377184	V1re2	Vomeronasal 1 receptor, E2
2.66	0.27	Mm.260376	4921524P20Rik	WD repeat domain 56
2.65	0.29	Mm.136985	D230044M03Rik	PREDICTED: hypothetical protein LOC76743
2.65	0.49	Mm.173186	C130092O11Rik	PREDICTED: Mus musculus RIKEN cDNA C130092O11 gene
2.65	0.14	Mm.125298	Hecw1	NEDL1 mRNA for HECT type E3 ubiquitin ligase
2.63	0.17	Mm.287857	Plagl1	Plagl1: Lost on transformation protein 1
2.63	0.60	Mm.386804	4933426I21Rik	RIKEN cDNA 4933426I21 gene
2.63	0.48	Mm.79760	Dach2	Dachshund 2 (Drosophila)
2.62	0.12	Mm.46389	Krtap3-2	Keratin associated protein 3-2
2.61	0.35	Mm.30424	Ptger3	Prostaglandin E receptor 3
2.61	0.49	Mm.20000	Dhx9	Dhx9: DEAH (Asp-Glu-Ala-His) box polypeptide 9
2.60	0.45	Mm.158971	1110001J03Rik	RIKEN cDNA 1110001J03 gene
2.59	0.31	Mm.276279	Zfp667	Zinc finger protein 667
2.59	0.53	Mm.291779	Mto1	Mto1: Mitochondrial translation optimization 1 homolog (S. cerevisiae)
2.59	0.37	Mm.70690	BC034664	CDNA sequence BC034664
2.57	0.41	Mm.20477	Uty	Ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome
2.57	0.13	Mm.38249	Fem1c	MKIAA1785 protein
2.56	0.20	Mm.34606	Hrb2	Hrb2: HIV-1 Rev binding protein 2
2.56	0.47	Mm.222990	Olf1143	Olfactory receptor 1143
2.56	0.34	Mm.261270	Ifi203	Ifi203: Interferon activated gene 203
2.56	0.19	Mm.377221	V1rh10	Vomeronasal 1 receptor, H10

2.56	0.39	Mm.383186	Npn1	Npn1: Hag2 mRNA for hypothetical protein
2.55	0.39	Mm.260751	Klf8	Kruppel-like factor 8
2.55	0.28	Mm.377687	Olf915	Olf915: Olfactory receptor 915
2.55	0.47	Mm.33206	1300013D05Rik	RIKEN cDNA 1300013D05 gene
2.53	0.15	Mm.212462	1700065D16Rik	Protein kinase ATR
2.53	0.22	Mm.291799	Rdh11	Retinol dehydrogenase 11
2.53	0.13	Mm.57084	Spr2j	Small proline-rich protein 2J
2.53	0.31	Mm.272223	Slco1b2	Solute carrier organic anion transporter family, member 1b2, transcript variant 1
2.53	0.43	Mm.301900	Cyp3a25	Cytochrome P450, family 3, subfamily a, polypeptide 25
2.52	0.02	Mm.2958	Cdkn1b	Cyclin-dependent kinase inhibitor 1B (P27),
2.51	0.55	Mm.251087	2010316F05Rik	RIKEN cDNA 2010316F05 gene
2.51	0.44	Mm.90181	Aldh8a1	Aldehyde dehydrogenase 8 family, member A1
2.51	0.18	Mm.231332	Cep1	Centrosomal protein 1
2.51	0.48	AK084861	not found	Mus musculus 13 days embryo lung cDNA
2.50	0.16	Mm.208125	Adamts6	Mus musculus a disintegrin-like and metalloprotease with thrombospondin type 1 motif, 6
2.50	0.45	Mm.379343	BC029127	cDNA sequence BC029127
2.50	0.52	Mm.103665	Slco1a1	Organic anion transporting polypeptide 1
2.50	0.13	Mm.45843	Slc6a15	Solute carrier family 6 (neurotransmitter transporter), member 15
2.50	0.22	Mm.377700	Olf965	Olfactory receptor 665
2.49	0.12	Mm.377172	V1rc19	Vomerolateral 1 receptor, C19
2.48	0.30	Mm.373566	Ttc14	Tetratricopeptide repeat domain 14
2.48	0.37	Mm.304354	Sly	Sycp3 like Y-linked
2.47	0.15	Mm.150047	6530406M24Rik	ATP/GTP binding protein-like 3
2.47	0.25	Mm.298242	Lgals12	Lectin, galactose binding, soluble 12
2.47	0.46	Mm.378496	4930527E24Rik	Mus musculus RIKEN cDNA 4930527E24 gene
2.46	0.16	Mm.330516	Ubr1	Ubiquitin protein ligase E3 component n-recognin 1

2.46	0.33	Mm.94461	A330019N05Rik	RIKEN cDNA A330019N05 gene
2.46	0.35	Mm.285366	BC061928	MKIAA1613 protein
2.46	0.30	Mm.246018	4631402N15Rik	RIKEN cDNA 4631402N15 gene
2.45	0.12	Mm.35764	Mobk11a	Mps One Binder kinase activator-like 1A (yeast)
2.45	0.25	Mm.354863	B630005N14Rik	RIKEN cDNA B630005N14 gene
2.44	0.37	Mm.334011	Me3	Me3: Malic enzyme 3, NADP(+)-dependent, mitochondrial
2.44	0.34	Mm.257316	Chm	Choroideremia
2.44	0.05	Mm.46932	Slc17a5	Solute carrier family 17 (anion/sugar transporter), member 5
2.43	0.21	Mm.316402	Kcnab1	Potassium voltage-gated channel, shaker-related subfamily, beta member 1
2.43	0.19	Mm.290758	E430028B21Rik	RIKEN cDNA E430028B21 gene
2.43	0.35	Mm.377569	Olfr843	Olfr843: Olfactory receptor 843
2.43	0.13	Mm.377695	Olfr878	Olfactory receptor 878
2.42	0.35	Mm.51259	BC035537	BC035537: CDNA sequence BC035537
2.42	0.26	Mm.210334	Mbtd1	Mbt domain containing 1
2.40	0.17	Mm.377563	Olfr803	Olfactory receptor 803
2.39	0.41	Mm.29366	Rsbn1	Rosbin, round spermatid basic protein 1
2.38	0.28	Mm.292470	AA545217	Expressed sequence AA545217
2.38	0.36	Mm.915	Il2ra	Interleukin 2 receptor, alpha chain
2.38	0.23	S71494	not found	SmD homolog
2.38	0.22	Mm.74605	Faim	Fas-apoptosis inhibitory molecule
2.38	0.23	Mm.196472	Twistnb	TWIST neighbor
2.38	0.32	Mm.108239	Pramel3	Preferentially expressed antigen in melanoma-like 3
2.37	0.29	AK037041	not found	Mus musculus adult female vagina cDNA
2.37	0.11	Mm.269995	Etv6	Ets variant gene 6 (TEL oncogene)
2.37	0.27	Mm.377176	V1rc24	Vomeronasal 1 receptor, C24
2.36	0.29	Mm.215971	Ebf1	Early B-cell factor 1

2.36	0.30	Mm.2197	Ambp	Alpha 1 microglobulin/bikunin
2.36	0.28	Mm.87321	Catsper1	Cation channel of sperm 1
2.36	0.29	Mm.234715	A830016G23Rik	Cadherin 10
2.36	0.30	Mm.193276	C130026L21Rik	RIKEN cDNA C130026L21 gene
2.36	0.32	Mm.363074	not found	Strain C57BL odorant receptor B3
2.36	0.21	Mm.306021	Ugt8	UDP galactosyltransferase 8A
2.34	0.33	Mm.7336	Ccr12	Chemokine (C-C motif) receptor-like 2
2.34	0.08	Mm.142187	A230083G16Rik	RIKEN cDNA A230083G16 gene
2.33	0.28	Mm.119343	Rdh14	Retinol dehydrogenase 14 (all-trans and 9-cis)
2.33	0.26	Mm.254370	Clcn5	Chloride channel 5
2.33	0.08	Mm.325190	5730577I03Rik	RIKEN cDNA 5730577I03 gene
2.33	0.16	Mm.196405	Hsd3b2	Hydroxysteroid dehydrogenase-2, delta<5>-3-beta
2.33	0.15	Mm.45054	Gda	Guanine deaminase
2.32	0.26	Mm.101504	C530008M17Rik	RIKEN cDNA C530008M17 gene
2.32	0.24	U16672	not found	Mus musculus clone NCD40 LINE-1 element ORF1
2.32	0.23	Mm.15793	Tgtp	Tgtp: T-cell specific GTPase
2.32	0.22	Mm.259310	D230039L06Rik	D230039L06Rik: RIKEN cDNA D230039L06 gene
2.31	0.21	AK045798	not found	Mus musculus adult male corpora quadrigemina cDNA
2.30	0.20	Mm.234437	Herc4	Herc4: Hect domain and RLD 4
2.30	0.22	Mm.269823	9.83E+11	Hypothetical protein 9830102E05
2.29	0.19	Mm.210497	Emr4	EGF-like module containing, mucin-like, hormone receptor-like sequence 4
2.28	0.09	Mm.335076	Olfr144	Olfr144: Olfactory receptor 144
2.28	0.20	Mm.30466	Trps1	Trichorhinophalangeal syndrome I (human)
2.28	0.24	Mm.304287	LOC382133	Similar to RIKEN cDNA 1700029H17
2.27	0.09	Mm.261453	Ect2	Ect2 oncogene
2.27	0.17	Mm.335587	Trim44	PREDICTED: Mus musculus hypothetical protein LOC (LOC546231)

2.27	0.19	Mm.211047	Lrrc16	Leucine rich repeat containing 16
2.27	0.20	Mm.193025	Tex13	Testis expressed gene 13
2.26	0.21	Mm.89202	Xcr1	Chemokine (C motif) receptor 1
2.26	0.23	Mm.5011	Zfp37	Zinc finger protein 37
2.26	0.05	Mm.222990	Olfr1143	Olfactory receptor 1143
2.25	0.07	Mm.255890	Zic3	Zinc finger protein of the cerebellum 3
2.25	0.20	Mm.336400	Sntg1	Syntrophin, gamma 1
2.25	0.07	Mm.159422	4930505A04Rik	RIKEN cDNA 4930505A04 gene
2.23	0.12	Mm.286868	Stxbp5	MKIAA4253 protein
2.23	0.18	Mm.186778	Slc16a10	Solute carrier family 16 (monocarboxylic acid transporters), member 10
2.23	0.06	Mm.257120	Ripk5	Ripk5: Receptor interacting protein kinase 5
2.23	0.15	Mm.159704	Abca6	ATP-binding cassette, sub-family A (ABC1), member 6
2.23	0.06	Mm.131949	Rshl3	PREDICTED: similar to radial spokehead-like 1
2.22	0.18	Mm.8655	Cfh	Complement component factor h
2.22	0.16	Mm.358972	BC021442	CDNA sequence BC021442
2.22	0.22	S71494	not found	SmD homolog
2.21	0.13	Mm.325816	Ppib	Peptidylprolyl isomerase B
2.20	0.16	Mm.266260	C030003D03Rik	RIKEN cDNA C030003D03 gene
2.18	0.15	Mm.259642	4933417K05Rik	Small nuclear ribonucleoprotein polypeptide F
2.17	0.07	Mm.35670	Abcc9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9, transcript variant 3
2.16	0.08	Mm.100276	Rdh6	Retinol dehydrogenase 16
2.15	0.11	Mm.32118	2810021J22Rik	RIKEN cDNA 2810021J22 gene
2.14	0.03	Mm.185296	5430427O19Rik	PREDICTED: hypothetical protein LOC71398 [Mus musculus]
2.14	0.02	Mm.88790	1500010G04Rik	RIKEN cDNA 1500010G04 gene
2.14	0.08	Mm.233889	Slc39a10	Solute carrier family 39 (zinc transporter), member 10
2.13	0.10	Mm.281844	AI788959	UDP glucuronosyltransferase 2 family, polypeptide B34

2.13	0.05	Mm.42223	Chic1	Cysteine-rich hydrophobic 1 protein, partial
2.13	0.03	AK031317	not found	Mus musculus 13 days embryo male testis cDNA
2.12	0.08	Mm.133444	2310039E09Rik	RIKEN cDNA 2310039E09 gene
2.10	0.10	Mm.224306	Klhl13	Kelch-like 13 (Drosophila)
2.10	0.07	AK088928	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
2.10	0.09	Mm.101369	Pik3cg	Phosphatidylinositol 3-kinase gamma isoform
2.09	0.04	Mm.330366	Olfr1082	Olfactory receptor 1082
2.08	0.03	Mm.24031	4933431N12Rik	MKIAA0882 protein
2.08	0.04	Mm.252514	Kcni1.2	A-type potassium channel modulatory protein 1.2
2.06	0.04	Mm.214755	Pip	Prolactin induced protein
2.06	0.01	Mm.167471	Adamts18	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 18

Decreased (less than 0.5)

0.02	0.01	Mm.22723	Rpl23a	Ribosomal protein L23a
0.03	0.01	Mm.22830	Cryba1	Crystallin, beta A1
0.03	0.01	Mm.22723	Rpl23a	Ribosomal protein L23a
0.03	0.01	AF093677	not found	Mus musculus ATPase subunit 6
0.03	0.01	Mm.180003	Rps27a	Ribosomal protein S27a
0.04	0.02	Mm.279782	Prdx5	Peroxiredoxin 5
0.04	0.01	Mm.247113	A230103N10Rik	Ribosomal protein L30
0.04	0.01	Mm.288567	Hbb-b1	Hemoglobin, beta adult major chain
0.04	0.02	Mm.378879	Actg1	Actin, gamma, cytoplasmic 1
0.04	0.02	Mm.371577	Rps17	Ribosomal protein S17
0.04	0.01	AF378830	not found	Mus musculus cytochrome c oxidase subunit II
0.04	0.02	Mm.88212	Tuba6	Tubulin, alpha 6
0.05	0.01	Mm.354354	3100002L24Rik	Adult male kidney cDNA
0.05	0.02	AK008468	not found	Mus musculus adult male small intestine cDNA

0.05	0.02	Mm.297482	Tpt1	Tumor protein, translationally-controlled 1
0.05	0.03	Mm.261676	Hist1h2bc	Histone 1, H2bc
0.05	0.01	Mm.371611	Rps27	Ribosomal protein S27
0.05	0.03	Mm.280038	S100a11	S100 calcium binding protein A11 (calizzarin)
0.05	0.02	Mm.22723	Rpl23a	Ribosomal protein L23a
0.05	0.02	Mm.371577	Rps17	Ribosomal protein S17
0.05	0.01	Mm.354354	3100002L24Rik	Adult male kidney cDNA
0.05	0.00	Mm.288567	Hbb-b1	Hemoglobin, beta adult major chain
0.05	0.02	Mm.2965	Rho	Rhodopsin
0.06	0.02	Mm.70666	Eno1	Enolase 1, alpha non-neuron
0.06	0.02	Mm.379103	1110017O22Rik	RIKEN cDNA 1110017O22 gene
0.06	0.02	Mm.354354	3100002L24Rik	Adult male kidney cDNA
0.06	0.03	Mm.244637	Rpl9	Ribosomal protein L9
0.06	0.03	Mm.282814	Rpl24	Ribosomal protein L24
0.06	0.01	Mm.343377	Tuba2	Tubulin, alpha 2
0.06	0.02	Mm.297482	Tpt1	Tumor protein, translationally-controlled 1
0.06	0.04	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.06	0.03	Mm.379302	Rpl31	Ribosomal protein L31
0.06	0.04	Mm.142729	Tmsb4x	Thymosin, beta 4, X chromosome
0.06	0.05	Mm.2000	Anapc13	Anaphase promoting complex subunit 13
0.06	0.03	Mm.335315	Eef1a1	Eukaryotic translation elongation factor 1 alpha 1
0.06	0.02	Mm.2108	Ttr	Transthyretin
0.06	0.03	Mm.930	Ctsl	Cathepsin L
0.06	0.02	Mm.306548	Rpl26	Ribosomal protein L26
0.06	0.02	Mm.361382	Rps4x	Ribosomal protein S4, X-linked
0.07	0.02	Mm.322269	Rps3a	Ribosomal protein S3a

0.07	0.04	Mm.371592	Ubb	Ubiquitin B
0.07	0.06	Mm.2344	Gnb1	Guanine nucleotide binding protein, beta 1
0.07	0.01	Mm.275810	Rps10	Ribosomal protein S10
0.07	0.05	Mm.47709	Pdc	Phosducin
0.07	0.01	Mm.379371	Aamp	Angio-associated migratory protein
0.07	0.04	Mm.361382	Rps4x	Ribosomal protein S4, X-linked
0.07	0.03	Mm.361382	Rps4x	Ribosomal protein S4, X-linked
0.07	0.02	Mm.354354	3100002L24Rik	Adult male kidney cDNA
0.07	0.02	Mm.306548	Rpl26	Ribosomal protein L26
0.07	0.03	Mm.208004	My16	Myosin, light polypeptide 6, alkali, smooth muscle and non-muscle
0.07	0.02	Mm.275769	2310032F03Rik	RIKEN cDNA 2310032F03 gene
0.08	0.04	Mm.290251	Cnbp1	Cellular nucleic acid binding protein 1
0.08	0.04	Mm.2469	Shfdg1	Split hand/foot deleted gene 1
0.08	0.03	Mm.343377	Tuba2	Tubulin, alpha 2
0.08	0.03	Mm.43778	Rps14	Ribosomal protein S14
0.08	0.04	Mm.306302	LOC381438	Ribosomal protein S23
0.08	0.05	Mm.302971	not found	Adult male stomach cDNA
0.08	0.07	Mm.250030	Rpl12	Ribosomal protein L12
0.08	0.03	Mm.4419	Rpl5	Ribosomal protein L5
0.08	0.02	Mm.378940	Hmgn1	High mobility group nucleosomal binding domain 1
0.08	0.03	Mm.361382	Rps4x	Ribosomal protein S4, X-linked
0.08	0.04	Mm.181721	Uqcrh	Ubiquinol-cytochrome c reductase hinge protein
0.08	0.02	Mm.37214	Trf	Transferrin
0.08	0.05	Mm.46395	Pzca	Prostate stem cell antigen
0.08	0.04	Mm.316362	Rps11	Ribosomal protein S11
0.08	0.03	Mm.1228	Cryaa	Alpha-A-crystallin (Cryaa gene)

0.08	0.04	Mm.29722	Usmg5	Upregulated during skeletal muscle growth 5
0.08	0.03	Mm.100113	Rpl10	Ribosomal protein 10
0.08	0.02	Mm.19355	Rpl35a	Ribosomal protein L35a
0.08	0.04	Mm.181237	Rnaset2	Ribonuclease T2
0.08	0.02	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.09	0.03	Mm.284853	Gnat1	Guanine nucleotide binding protein, alpha transducing 1
0.09	0.03	Mm.1776	Fth1	Ferritin heavy chain 1
0.09	0.03	Mm.152627	Cox7a2	Cytochrome c oxidase, subunit VIIa 2
0.09	0.04	Mm.236868	Rps3	Ribosomal protein S3
0.09	0.02	Mm.336743	Hspa8	Heat shock protein 8
0.09	0.04	Mm.282053	Rpl7	Ribosomal protein L7
0.09	0.05	Mm.378931	Gsto1	Glutathione S-transferase omega 1
0.09	0.02	Mm.22830	Cryba1	Crystallin, beta A1
0.09	0.06	Mm.104368	Rpl32	Ribosomal protein L32
0.09	0.04	Mm.372314	Hspa1b	Heat shock protein 1B
0.10	0.05	Mm.378892	Calm2	Calmodulin 2
0.10	0.04	Mm.319660	Hmgn2	High mobility group nucleosomal binding domain 2
0.10	0.03	Mm.379129	Eef1g	Eukaryotic translation elongation factor 1 gamma
0.10	0.02	Mm.34869	Ndufa1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1
0.10	0.05	Mm.379129	Eef1g	Eukaryotic translation elongation factor 1 gamma
0.10	0.06	Mm.261676	Hist1h2bc	Histone 1, H2bc
0.10	0.05	Mm.2966	Atp5g3	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9)
0.10	0.07	Mm.5246	Ppia	Peptidylprolyl isomerase A
0.10	0.05	Mm.4266	Itm2b	Integral membrane protein 2B
0.10	0.05	Mm.273339	4930583H14Rik	RIKEN cDNA 4930583H14 gene
0.10	0.05	Mm.349863	Nme2	Expressed in non-metastatic cells 2, protein

0.10	0.05	Mm.371603	Rps28	Ribosomal protein S28
0.10	0.07	Mm.277585	App	Amyloid beta (A4) precursor protein
0.10	0.04	Mm.38498	Krt1-15	Keratin complex 1, acidic, gene 15
0.10	0.06	Mm.277585	App	Amyloid beta (A4) precursor protein
0.11	0.05	Mm.29324	Ldh1	Lactate dehydrogenase 1, A chain
0.11	0.05	Mm.277092	Heph	Ribosomal protein L17
0.11	0.03	Mm.157452	Rps2	Adult male lung cDNA, RIKEN full-length enriched library, clone:1200003H09 product
0.11	0.04	Mm.1372	Pde6b	Phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide
0.11	0.01	Mm.218350	Rpl19	Ribosomal protein L19
0.11	0.05	Mm.383994	Krt2-6a	Keratin complex 2, basic, gene 6a
0.11	0.04	Mm.2662	Gsta4	Glutathione S-transferase, alpha 4
0.11	0.06	Mm.371630	3110001N18Rik	Ribosomal protein L22 like 1
0.11	0.04	AK012756	not found	Mus musculus 10, 11 days embryo whole body cDNA
0.11	0.04	Mm.276137	Atp5a1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1
0.11	0.04	Mm.284811	Unc119	Unc-119 homolog (C. elegans)
0.11	0.05	Mm.372389	Eno1	Enolase 1, alpha non-neuron
0.11	0.05	Mm.315997	Hspca	Heat shock protein 1, alpha
0.11	0.03	Mm.288567	Hbb-b1	Hemoglobin, beta adult major chain
0.11	0.07	Mm.30478	Rpl39	Ribosomal protein L39
0.11	0.04	Mm.336955	Rpl10a	Ribosomal protein L10A
0.11	0.03	Mm.358617	Krt2-6b	Adult male tongue cDNA, RIKEN full-length enriched library, clone:2310008N03 product
0.11	0.07	Mm.306880	Lypdc2	Ly6/Plaur domain containing 2
0.12	0.04	Mm.383994	Krt2-6a	Keratin complex 2, basic, gene 6a
0.12	0.04	Mm.30039	Prkar1a	Protein kinase, cAMP dependent regulatory, type I, alpha
0.12	0.09	Mm.193096	Scd2	Stearoyl-Coenzyme A desaturase 2
0.12	0.05	Mm.2180	Hspcb	Heat shock protein 1, beta

0.12	0.06	Mm.379005	Rps18	Ribosomal protein S18, transcript variant 1
0.12	0.07	Mm.336205	Pgk1	Phosphoglycerate kinase 1
0.12	0.04	Mm.246996	Chchd1	Coiled-coil-helix-coiled-coil-helix domain containing 1
0.12	0.07	Mm.151562	Rbp3	Retinol binding protein 3, interstitial
0.12	0.05	Mm.186185	Prdx6	Peroxiredoxin 6
0.12	0.05	Mm.589	Gpi1	Glucose phosphate isomerase 1
0.12	0.05	Mm.4263	Cst3	Cystatin C
0.12	0.07	Mm.341719	Rplp2	Ribosomal protein, large P2
0.12	0.05	Mm.231395	Ctsd	Cathepsin D
0.12	0.05	Mm.218350	Rpl19	Ribosomal protein L19
0.12	0.06	Mm.100113	Rpl10	Ribosomal protein 10
0.12	0.04	Mm.290251	Cnbp1	Cellular nucleic acid binding protein 1
0.12	0.06	Mm.368	Psmb4	Proteasome (prosome, macropain) subunit, beta type 4
0.12	0.05	Mm.182962	Eif3s5	Eif3s5: Eukaryotic translation initiation factor 3, subunit 5 (epsilon)
0.12	0.06	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.13	0.08	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.13	0.05	Mm.238973	Atp5b	ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit
0.13	0.02	Mm.34425	Myh2	Myosin, heavy polypeptide 2, skeletal muscle, adult
0.13	0.05	Mm.368524	Aldoa	Aldolase 1, A isoform
0.13	0.08	Mm.289431	Eef2	Eukaryotic translation elongation factor 2
0.13	0.07	Mm.378885	Atp5f1	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit b, isoform 1
0.13	0.06	Mm.13886	Sui1-rs1	Suppressor of initiator codon mutations, related sequence 1 (<i>S. cerevisiae</i>)
0.13	0.04	Mm.16224	Guca1a	Guanylate cyclase activator 1a (retina)
0.13	0.04	Mm.383993	Krt2-5	Keratin complex 2, basic, gene 5
0.13	0.04	Mm.31395	Cpe	Carboxypeptidase E
0.13	0.07	Mm.261679	Wwp2	Ribosomal protein S26

0.13	0.05	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.13	0.05	Mm.268000	Vim	Vimentin
0.13	0.07	Mm.4257	Aldh3a1	Aldehyde dehydrogenase family 3, subfamily A1
0.13	0.04	Mm.238973	Atp5b	ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit
0.13	0.07	Mm.371592	Ubb	Ubiquitin B
0.14	0.08	Mm.383993	Krt2-5	Keratin complex 2, basic, gene 5
0.14	0.05	Mm.30270	PsmA4	Proteasome (prosome, macropain) subunit, alpha type 4
0.14	0.04	Mm.252497	Kif1b	Kinesin-like protein KIF1B
0.14	0.09	Mm.295670	1500016L11Rik	Chromatin modifying protein 2A
0.14	0.06	Mm.379003	Rpl37a	Ribosomal protein L37a
0.14	0.07	Mm.1186	Car2	Carbonic anhydrase 2
0.14	0.03	Mm.280083	Rpl4	Ribosomal protein L4
0.14	0.10	Mm.273339	4930583H14Rik	RIKEN cDNA 4930583H14 gene
0.14	0.06	Mm.338718	Rps8	Ribosomal protein S8
0.14	0.10	AK002956	not found	Mus musculus adult male brain cDNA
0.14	0.05	Mm.3667	Vtn	Vitronectin
0.14	0.08	Mm.371592	Ubb	Ubiquitin B
0.14	0.04	Mm.6253	Crygs	Crystallin, gamma S
0.14	0.08	Mm.400	Cox6b1	Cytochrome c oxidase, subunit VIb polypeptide 1
0.14	0.09	Mm.41926	Ndufa4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4
0.14	0.06	Mm.298885	Crygb	Crystallin, gamma C
0.14	0.02	Mm.158903	Hlf	Hepatic leukemia factor
0.14	0.06	Mm.371552	Cd63	Cd63 antigen
0.14	0.06	Mm.19987	Dct	Dopachrome tautomerase
0.14	0.08	Mm.246377	Tubb2	Tubulin, beta 2
0.14	0.02	Mm.272389	2900010M23Rik	RIKEN cDNA 2900010M23 gene

0.14	0.06	Mm.17604	Gnb5	Guanine nucleotide binding protein, beta 5
0.14	0.06	Mm.32019	Tcp1	T-complex protein 1
0.14	0.05	Mm.325307	1110032D12Rik	Transmembrane emp24 domain trafficking protein 2
0.14	0.04	Mm.343377	Tuba2	Tubulin, alpha 2
0.14	0.08	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.14	0.05	Mm.371615	Atp6v1g1	G1 isoform of V-ATPase subunit
0.14	0.06	Mm.1372	Pde6b	Phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide
0.14	0.03	Mm.29324	Ldh1	Lactate dehydrogenase 1, A chain
0.14	0.09	Mm.273403	Cox5a	Cytochrome c oxidase, subunit Va
0.14	0.02	Mm.2180	Hspcb	Heat shock protein 1, beta
0.15	0.06	Mm.1104	Ube1x	Ubiquitin-activating enzyme E1, Chr X
0.15	0.07	AK078038	not found	Mus musculus adult male medulla oblongata cDNA
0.15	0.10	Mm.30071	Laptm4a	Lysosomal-associated protein transmembrane 4A
0.15	0.10	AK002956	not found	Mus musculus adult male brain cDNA
0.15	0.07	Mm.1	S100a10	S100 calcium binding protein A10 (calpactin)
0.15	0.10	Mm.3532	Tmsb10	Thymosin, beta 10
0.15	0.06	Mm.277349	Park7	Parkinson disease (autosomal recessive, early onset) 7
0.15	0.04	Mm.288567	Hbb-b1	Hemoglobin, beta adult major chain
0.15	0.07	Mm.17604	Gnb5	Guanine nucleotide binding protein, beta 5
0.15	0.07	Mm.234700	Ywhae	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
0.15	0.07	Mm.371622	Rpl11	Ribosomal protein L11
0.15	0.07	Mm.18590	Tm4sf2	Tetraspanin 7
0.15	0.06	S55549	not found	cytoskeletal protein 49
0.15	0.06	Mm.2409	Adh1	Alcohol dehydrogenase 1 (class I)
0.15	0.05	Mm.330525	2310003F16Rik	RIKEN cDNA 2310003F16 gene
0.15	0.09	Mm.379007	Rps6	Ribosomal protein S6

0.15	0.08	Mm.5023	Pcp4	Purkinje cell protein 4
0.15	0.06	Mm.100144	S100a6	S100 calcium binding protein A6 (calyculin)
0.15	0.04	Mm.200608	Clu	Clusterin
0.15	0.09	Mm.253142	Ndufs4	NADH dehydrogenase (ubiquinone) Fe-S protein 4
0.15	0.05	Mm.297486	Rps25	Ribosomal protein S25
0.15	0.06	Mm.183043	2300003P22Rik	RIKEN cDNA 2300003P22 gene
0.15	0.04	Mm.1022	Cdc42	Cell division cycle 42 homolog (<i>S. cerevisiae</i>)
0.15	0.06	Mm.353923	Rps12	Ribosomal protein S12
0.15	0.09	Mm.62876	Zwint	ZW10 interactor
0.15	0.07	Mm.102496	Ndfip1	Nedd4 family interacting protein 1
0.15	0.05	Mm.27375	Polr2k	Polymerase (RNA) II (DNA directed) polypeptide K
0.15	0.07	Mm.42805	Ndufs5	NADH dehydrogenase (ubiquinone) Fe-S protein 5
0.15	0.08	Mm.180182	Cox5b	Cytochrome c oxidase, subunit Vb
0.15	0.04	Mm.379114	Rpl15	Ribosomal protein L15
0.16	0.08	S67218	not found	transferrin
0.16	0.09	Mm.33263	H2-D1	Histocompatibility 2, D region
0.16	0.07	Mm.371592	Ubb	Ubiquitin B
0.16	0.05	Mm.3128	Cox7c	Cytochrome c oxidase, subunit VIIc
0.16	0.08	Mm.16756	Si	Silver
0.16	0.07	Mm.379133	2900073G15Rik	RIKEN cDNA 2900073G15 gene
0.16	0.11	Mm.375100	1810006K21Rik	RIKEN cDNA 1810006K21 gene
0.16	0.07	Mm.212703	Mdh1	Malate dehydrogenase 1
0.16	0.08	Mm.4266	Itm2b	Integral membrane protein 2B
0.16	0.07	Mm.43415	Cox6a1	Cytochrome c oxidase, subunit VI a, polypeptide 1
0.16	0.04	Mm.68889	Gnb3	Guanine nucleotide binding protein, beta 3
0.16	0.03	Mm.316362	Rps11	Ribosomal protein S11

0.16	0.04	Mm.371570	Pabpc1	Poly A binding protein, cytoplasmic 1
0.16	0.04	AK083524	not found	Mus musculus 9 days embryo whole body cDNA, RIKEN
0.16	0.07	Mm.3918	Abca4	ATP-binding cassette, sub-family A (ABC1), member 4
0.16	0.05	Mm.5305	Gnb2-rs1	Guanine nucleotide binding protein (G protein), beta polypeptide 2 like 1
0.16	0.08	Mm.39040	Mal	Myelin and lymphocyte protein, T-cell differentiation protein
0.16	0.06	Mm.330075	Rpl7a	Ribosomal protein L7a
0.16	0.11	Mm.212606	C330018J07Rik	RIKEN cDNA C330018J07 gene
0.16	0.10	Mm.236868	Rps3	Ribosomal protein S3
0.16	0.09	Mm.643	Rps15	Ribosomal protein S15
0.16	0.07	Mm.18962	Catna1	Catenin (cadherin associated protein), alpha 1
0.16	0.07	Mm.140568	1100001I22Rik	RIKEN cDNA 1100001I22 gene
0.16	0.06	Mm.3267	Anxa8	Annexin A8
0.16	0.06	Mm.216135	Pkm2	Pyruvate kinase, muscle
0.16	0.09	Mm.99996	Kif1c	Kinesin family member 1C
0.16	0.08	Mm.643	Rps15	Ribosomal protein S15
0.16	0.12	Mm.44101	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
0.16	0.07	Mm.3913	Eno2	Enolase 2, gamma neuronal
0.17	0.07	Mm.29959	1600029D21Rik	RIKEN cDNA 1600029D21 gene
0.17	0.07	Mm.16716	Lamp1	Lysosomal membrane glycoprotein 1
0.17	0.07	Mm.246304	Sypl	Synaptophysin-like protein
0.17	0.03	Mm.280083	Rpl4	Ribosomal protein L4
0.17	0.12	Mm.156506	Pcdh21	Protocadherin 21
0.17	0.08	Mm.41653	Rlbp1	Retinaldehyde binding protein 1
0.17	0.05	Mm.329700	Gng3	Guanine nucleotide binding protein (G protein), gamma 3 subunit
0.17	0.04	Mm.379061	Timm8b	Translocase of inner mitochondrial membrane 8 homolog b (yeast)
0.17	0.08	Mm.330075	Rpl7a	Ribosomal protein L7a

0.17	0.03	Mm.331	Ubc	Ubiquitin C
0.17	0.04	Mm.260288	Ppp2ca	Protein phosphatase 2a, catalytic subunit, alpha isoform
0.17	0.06	Mm.41603	1810006K23Rik	CaMKII inhibitor protein alpha
0.17	0.09	Mm.6250	Prom1	Prominin 1
0.17	0.06	Mm.10314	Atp5g2	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 2
0.17	0.12	Mm.289431	Eef2	Eukaryotic translation elongation factor 2
0.17	0.11	Mm.315189	H3f3a	H3 histone, family 3A
0.17	0.04	Mm.274995	Snrpn	Small nuclear ribonucleoprotein N
0.17	0.08	Mm.238343	Anxa2	Annexin A2
0.17	0.09	Mm.231395	Ctsd	Cathepsin D
0.17	0.05	Mm.332336	9130413I22Rik	Morf4 family associated protein 1
0.17	0.03	Mm.289810	Rpl14	Ribosomal protein L14
0.17	0.13	Mm.332810	Gpx4	Glutathione peroxidase 4
0.17	0.07	Mm.236513	Map3k12	Mitogen activated protein kinase kinase kinase 12
0.17	0.04	Mm.451	Akr1b3	Aldo-keto reductase family 1, member B3 (aldose reductase)
0.17	0.08	M20632	not found	Mouse LLRep3 protein
0.18	0.11	Mm.379372	4930542G03Rik	RIKEN cDNA 4930542G03 gene
0.18	0.02	Mm.261679	Wwp2	Ribosomal protein S26
0.18	0.09	X67140	not found	M.musculus mRNA for SR calcium ATPase
0.18	0.05	Mm.248615	Lgals3	Lectin, galactose binding, soluble 3
0.18	0.06	Mm.1948	Tctex1	T-complex testis expressed 1
0.18	0.09	Mm.297096	Mdh2	Malate dehydrogenase 2, NAD (mitochondrial)
0.18	0.10	Mm.330075	Rpl7a	Ribosomal protein L7a
0.18	0.12	Mm.181237	Rnaset2	Ribonuclease T2
0.18	0.07	Mm.272253	1500034J20Rik	IMP1 inner mitochondrial membrane peptidase-like (<i>S. cerevisiae</i>)
0.18	0.05	Mm.271950	Gorasp2	Golgi reassembly stacking protein 2

0.18	0.07	Mm.2206	Ndufv2	NADH dehydrogenase (ubiquinone) flavoprotein 2
0.18	0.06	Mm.209385	Lpp	Mortality factor 4 like 1
0.18	0.10	Mm.158264	Pfdn5	Prefoldin 5, transcript variant 2
0.18	0.07	Mm.35016	H2-T23	Histocompatibility 2, T region locus 23
0.18	0.09	Mm.4266	Itm2b	Integral membrane protein 2B
0.18	0.07	Mm.289431	Eef2	Eukaryotic translation elongation factor 2
0.18	0.10	Mm.14455	Tgfb1	Transforming growth factor, beta induced
0.18	0.09	Mm.87773	Tra1	Tumor rejection antigen gp96
0.18	0.09	S74315	not found	gag=antigen LEC-A
0.18	0.06	Mm.331	Ubc	Ubiquitin C
0.18	0.04	Mm.210745	Glul	Glutamine synthetase
0.18	0.10	Mm.589	Gpi1	Glucose phosphate isomerase 1
0.18	0.10	Mm.1850	Uqcrb	Fc receptor-like mucin-like 1
0.18	0.08	Mm.273277	Trim29	Tripartite motif protein 29
0.18	0.14	Mm.353923	Rps12	Ribosomal protein S12
0.18	0.05	NM_134104	not found	not found
0.18	0.07	Mm.124176	Limk2	LIM motif-containing protein kinase 2
0.18	0.04	Mm.316179	Ftl1	Ferritin light chain 1
0.18	0.07	Mm.2319	Stmn3	Stathmin-like 3
0.18	0.02	Mm.14526	Mylpf	Myosin light chain, phosphorylatable, fast skeletal muscle
0.18	0.11	Mm.21961	Atp6ap1	ATPase, H ⁺ transporting, lysosomal accessory protein 1
0.18	0.07	Mm.252063	Mbp	Myelin basic protein, transcript variant 2
0.18	0.03	Mm.95707	Aipl1	Aryl hydrocarbon receptor-interacting protein-like 1
0.18	0.05	Mm.347492	Rom1	Rod outer segment membrane protein 1
0.18	0.13	Mm.290622	Pde6h	Phosphodiesterase 6H, cGMP-specific, cone, gamma
0.18	0.09	Mm.16831	Ckb	Creatine kinase, brain

0.18	0.01	Mm.235863	Rcvrn	Recoverin
0.18	0.08	Mm.340163	Myh8	Myosin, heavy polypeptide 4, skeletal muscle
0.19	0.15	Mm.279821	Eif4a1	Eukaryotic translation initiation factor 4A1
0.19	0.04	Mm.277585	App	Amyloid beta (A4) precursor protein
0.19	0.08	Mm.340658	Rpl27	Ribosomal protein L27
0.19	0.08	Mm.275937	Bfsp1	Beaded filament structural protein in lens-CP94
0.19	0.07	Mm.339491	Rpl41	Ribosomal protein L41
0.19	0.08	Mm.27630	Slurp1	Secreted Ly6/Plaur domain containing 1
0.19	0.11	Mm.88212	Tuba6	Tubulin, alpha 6
0.19	0.11	Mm.325350	Slc37a2	Solute carrier family 37 (glycerol-3-phosphate transporter), member 2
0.19	0.07	Mm.298	Slc25a3	Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3
0.19	0.05	Mm.359377	Rpl29	Ribosomal protein L29
0.19	0.06	Mm.136093	Atp5k	ATP synthase, H ⁺ transporting, mitochondrial F1F0 complex, subunit e
0.19	0.16	Mm.44101	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
0.19	0.08	Mm.273277	Trim29	Tripartite motif protein 29
0.19	0.11	Mm.379457	Vcp	Valosin containing protein
0.19	0.06	Mm.16756	Si	Silver
0.19	0.03	Mm.132535	MGC68323	Glyceraldehyde-3-phosphate dehydrogenase (phosphorylating)-like
0.19	0.12	Mm.298885	Crygb	Crystallin, gamma C
0.19	0.07	Mm.315997	Hspca	Heat shock protein 1, alpha
0.19	0.10	Mm.274373	Rdh12	Retinol dehydrogenase 12
0.19	0.09	Mm.20460	Rgr	Retinal G protein coupled receptor
0.19	0.04	Mm.332810	Gpx4	Glutathione peroxidase 4
0.19	0.07	Mm.294457	2310047H23Rik	RIKEN cDNA 2310047H23 gene
0.19	0.14	Mm.44101	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
0.19	0.11	Mm.29264	Sla2	RIKEN cDNA 1110008F13 gene

0.19	0.05	Mm.424	Atp1b3	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide
0.19	0.02	Mm.158264	Pfdn5	Prefoldin 5, transcript variant 2
0.20	0.12	Mm.182042	Atp5h	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit d
0.20	0.08	Mm.315189	H3f3a	H3 histone, family 3A
0.20	0.06	Mm.290353	1810045K07Rik	Transmembrane protein 66
0.20	0.09	Mm.55143	Dkk3	Dickkopf homolog 3 (<i>Xenopus laevis</i>)
0.20	0.05	Mm.286408	Rpl36a	Ribosomal protein L36a
0.20	0.11	Mm.726	Bsg	Basigin
0.20	0.07	Mm.153758	Tceb2	Transcription elongation factor B (SIII), polypeptide 2
0.20	0.10	Mm.175661	Ifitm1	Interferon induced transmembrane protein 1
0.20	0.12	Mm.331185	S100a16	S100 calcium binding protein A16
0.20	0.06	Mm.9257	D10Wsu52e	D10Wsu52e
0.20	0.09	Mm.273277	Trim29	Tripartite motif protein 29
0.20	0.08	Mm.2180	Hspcb	Heat shock protein 1, beta
0.20	0.07	Mm.2344	Gnb1	Guanine nucleotide binding protein, beta 1
0.20	0.14	Mm.34002	2410015M20Rik	RIKEN cDNA 2410015M20 gene
0.20	0.02	AF303453	not found	Mus musculus endogenous virus intracisternal A-particle clone T-25-1
0.20	0.09	Mm.358643	Tnnt1	Troponin T1, skeletal, slow
0.20	0.10	Mm.38496	Cspg5	Chondroitin sulfate proteoglycan 5
0.20	0.03	Mm.39469	Tnni2	Troponin I, skeletal, fast 2
0.20	0.08	Mm.325307	1110032D12Rik	Transmembrane emp24 domain trafficking protein 2
0.20	0.10	Mm.32019	Tcp1	T-complex protein 1
0.20	0.04	Mm.345333	Rpl35	Ribosomal protein L35
0.20	0.11	Mm.290692	Tkt	Transketolase
0.20	0.08	Mm.379043	Nsep1	Y box protein 1
0.20	0.09	Mm.156124	Slc24a1	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 1

0.20	0.03	Mm.378957	Stmn1	Stathmin 1
0.20	0.16	Mm.379372	4930542G03Rik	RIKEN cDNA 4930542G03 gene
0.20	0.08	Mm.18590	Tm4sf2	Tetraspanin 7
0.20	0.13	Mm.1458	Pps	Putative phosphatase
0.20	0.05	Mm.3746	Naca	Nascent polypeptide-associated complex alpha polypeptide
0.20	0.05	Mm.143818	Psmb7	Proteasome (prosome, macropain) subunit, beta type 7
0.20	0.06	Mm.196605	Hk1	Hexokinase 1
0.20	0.09	Mm.353923	Rps12	Ribosomal protein S12
0.20	0.11	Mm.233470	Igfbp7	Insulin-like growth factor binding protein 7
0.21	0.08	Mm.282039	Acly	ATP citrate lyase
0.21	0.10	Mm.379025	Tbca	Tubulin cofactor a
0.21	0.03	Mm.1860	Pitpnm1	Phosphatidylinositol membrane-associated 1
0.21	0.08	Mm.123110	Spnb2	Spectrin beta 2
0.21	0.07	Mm.4646	Krt1-13	Keratin complex 1, acidic, gene 13
0.21	0.09	Mm.372389	Eno1	Enolase 1, alpha non-neuron
0.21	0.07	Mm.335403	Bfsp2	Beaded filament structural protein 2, phakinin
0.21	0.02	Mm.178	Cryab	Crystallin, alpha B
0.21	0.07	Mm.13849	Hspb1	Heat shock protein 1
0.21	0.05	Mm.74605	Faim	Fas-apoptosis inhibitory molecule
0.21	0.07	Mm.200608	Clu	Clusterin
0.21	0.10	Mm.282814	Rpl24	Ribosomal protein L24
0.21	0.13	Mm.349277	Rpl18	Ribosomal protein L18
0.21	0.07	Mm.197728	Cox7b	Cytochrome c oxidase subunit VIIb
0.21	0.10	Mm.378942	Hnrpk	Heterogeneous nuclear ribonucleoprotein K
0.21	0.10	Mm.300697	2310008M10Rik	RIKEN cDNA 2310008M10 gene
0.21	0.05	Mm.158264	Pfdn5	Prefoldin 5, transcript variant 2

0.21	0.09	Mm.153891	Ptp4a3	Protein tyrosine phosphatase 4a3
0.21	0.11	Mm.88212	Tuba6	Tubulin, alpha 6
0.21	0.03	Mm.3918	Abca4	ATP-binding cassette, sub-family A (ABC1)
0.21	0.01	Mm.1061	Fdx1	Ferredoxin 1
0.21	0.09	Mm.143818	Psmb7	Proteasome (prosome, macropain) subunit, beta type 7
0.21	0.08	Mm.313236	5730427N09Rik	RIKEN cDNA 5730427N09 gene
0.22	0.04	Mm.128733	D0H4S114	DNA segment, human D4S114
0.22	0.05	Mm.221452	Ranbp5	RAN binding protein 5, mRNA
0.22	0.13	Mm.262021	Rpl6	Ribosomal protein L6
0.22	0.13	Mm.18590	Tm4sf2	Tetraspanin 7
0.22	0.11	Mm.246996	Chchd1	Coiled-coil-helix-coiled-coil-helix domain containing 1
0.22	0.06	Mm.2261	Psmd4	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 4
0.22	0.06	Mm.30066	Rpl8	Ribosomal protein L8
0.22	0.13	Mm.316179	Ftl1	Ferritin light chain 1
0.22	0.11	Mm.273277	Trim29	Tripartite motif protein 29
0.22	0.03	Mm.379033	Tsg101	Tumor susceptibility gene 101
0.22	0.03	Mm.683	not found	Ornithine decarboxylase antizyme
0.22	0.12	Mm.379152	Eif3s3	Eukaryotic translation initiation factor 3, subunit 3 (gamma)
0.22	0.07	Mm.512	Wbp5	WW domain binding protein 5
0.22	0.05	Mm.6994	Hadh2	Hydroxyacyl-Coenzyme A dehydrogenase type II
0.22	0.13	Mm.299062	Chchd2	Coiled-coil-helix-coiled-coil-helix domain containing 2
0.22	0.08	Mm.315962	Pgam1	Phosphoglycerate mutase 1
0.22	0.13	Mm.6698	Sara1	SAR1a gene homolog 1 (<i>S. cerevisiae</i>)
0.22	0.08	Mm.279861	1810060D16Rik	Polymerase (RNA) II (DNA directed) polypeptide F
0.22	0.05	Mm.379006	Rps29	Ribosomal protein S29
0.22	0.04	Mm.161414	Gluld1	Glutamate-ammonia ligase (glutamine synthase) domain containing 1

0.22	0.10	Mm.171123	Gng13	Guanine nucleotide binding protein 13, gamma
0.22	0.08	Mm.1228	Cryaa	Alpha-A-crystallin
0.22	0.17	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.22	0.09	Mm.622	Supt4h1	Suppressor of Ty 4 homolog 1 (S. cerevisiae)
0.22	0.06	Mm.262327	Vdac2	Voltage-dependent anion channel 2
0.22	0.08	Mm.32912	Psmb1	Proteasome (prosome, macropain) subunit, beta type 1
0.22	0.08	Mm.289669	Rps21	Ribosomal protein S21
0.22	0.04	Mm.27886	2410011G03Rik	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
0.22	0.04	Mm.17964	Khdrbs3	KH domain containing, RNA binding, signal transduction associated 3
0.22	0.13	Mm.125770	Gnas	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus
0.22	0.06	Mm.29590	Idh3b	Isocitrate dehydrogenase 3 (NAD+) beta
0.22	0.14	Mm.3820	Cmas	Cytidine monophospho-N-acetylneuraminic acid synthetase
0.22	0.08	Mm.238973	Atp5b	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit
0.23	0.15	Mm.28209	Perp	PERP, TP53 apoptosis effector
0.23	0.11	Mm.75713	2310043J07Rik	RIKEN cDNA 2310043J07 gene
0.23	0.09	Mm.30071	Laptm4a	Lysosomal-associated protein transmembrane 4A
0.23	0.01	Mm.29714	1200009C21Rik	Eukaryotic translation initiation factor 3, subunit 12
0.23	0.08	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.23	0.14	Mm.87773	Tra1	Tumor rejection antigen gp96
0.23	0.06	Mm.4222	Tpi1	Triosephosphate isomerase 1
0.23	0.04	Mm.379057	Rpl3	Ribosomal protein L3
0.23	0.06	Mm.451	Akr1b3	Aldo-keto reductase family 1
0.23	0.14	Mm.126043	Bat1a	HLA-B-associated transcript 1A
0.23	0.05	Mm.28144	0610007C21Rik	RIKEN cDNA 0610007C21 gene
0.23	0.07	Mm.289431	Eef2	Eukaryotic translation elongation factor 2
0.23	0.14	Mm.30181	Map17	PDZK1 interacting protein 1

0.23	0.07	Mm.377071	Mrps33	Mitochondrial ribosomal protein S33, transcript variant 2
0.23	0.14	Mm.18590	Tm4sf2	Tetraspanin 7
0.23	0.12	Mm.220204	Osbpl8	Oxysterol binding protein-like 8, transcript variant 2
0.23	0.10	Mm.16106	C4	Complement component 4
0.23	0.12	Mm.10530	Acadm	Acetyl-Coenzyme A dehydrogenase, medium chain
0.23	0.12	Mm.272264	Stx3	Syntaxin 3, transcript variant C
0.23	0.11	Mm.258204	Nsep1	Mus musculus similar to nuclease sensitive element binding protein 1
0.23	0.08	Mm.371622	Rpl11	Ribosomal protein L11
0.23	0.06	Mm.315430	2610524G07Rik	RIKEN cDNA 2610524G07 gene
0.23	0.09	Mm.182785	Emp1	Epithelial membrane protein 1
0.23	0.05	Mm.252497	Kif1b	Kinesin-like protein KIF1B
0.23	0.13	Mm.30113	Ndufs3	NADH dehydrogenase (ubiquinone) Fe-S protein 3
0.24	0.12	Mm.544	Pea15	Phosphoprotein enriched in astrocytes 15
0.24	0.10	Mm.6375	Gyg1	Glycogenin 1
0.24	0.11	Mm.272361	Psmc5	Protease (prosome, macropain) 26S subunit, ATPase 5, mRNA
0.24	0.13	Mm.121265	Psmal1	Psmal1: Proteasome (prosome, macropain) subunit, alpha type 1,
0.24	0.10	Mm.40989	Habp4	Hyaluronic acid binding protein 4
0.24	0.15	Mm.90151	Akr1b7	Aldo-keto reductase family 1, member B7
0.24	0.12	Mm.38055	Esd	Esterase D/formylglutathione hydrolase
0.24	0.07	Mm.16756	Si	Silver
0.24	0.14	Mm.30929	Prdx1	Peroxiredoxin 1
0.24	0.10	Mm.249986	2410016F01Rik	Ring finger protein 187
0.24	0.07	Mm.10433	Aip	Aryl-hydrocarbon receptor-interacting protein
0.24	0.05	Mm.272629	Usp8	Ubiquitin specific peptidase 8
0.24	0.08	Mm.24636	Pop5	Processing of precursor 5, ribonuclease P/MRP family (<i>S. cerevisiae</i>)
0.24	0.05	Mm.177990	Phpt1	Phosphohistidine phosphatase 1

0.24	0.06	Mm.379372	4930542G03Rik	RIKEN cDNA 4930542G03 gene
0.24	0.10	Mm.282158	Cct5	Chaperonin subunit 5 (epsilon)
0.24	0.10	Mm.378946	Eif3s6	Eukaryotic translation initiation factor 3, subunit 6
0.24	0.12	Mm.26633	Plekhb1	Pleckstrin homology domain containing, family B (evectins) member 1
0.24	0.09	Mm.275413	Tdrd7	Tudor domain containing 7
0.24	0.12	Mm.5291	Rps5	Ribosomal protein S5
0.24	0.10	Mm.276042	Actn4	Actinin alpha 4
0.24	0.14	Mm.33263	H2-D1	Histocompatibility 2, D region
0.24	0.03	Mm.290774	not found	MRNA fragment for heat shock cognate hsc73
0.24	0.11	Mm.28147	Dp111	Deleted in polyposis 1-like 1
0.24	0.06	Mm.86322	Tacc2	Transforming, acidic coiled-coil containing protein 2
0.24	0.12	Mm.33263	H2-D1	Histocompatibility 2, D region
0.24	0.08	Mm.243234	Psm2	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
0.24	0.07	Mm.1225	Col17a1	Procollagen, type XVII, alpha 1
0.24	0.18	Mm.222680	Rgs9bp	Regulator of G-protein signalling 9 binding protein
0.24	0.11	Mm.373613	Mpp4	Membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)
0.24	0.07	Mm.330160	Hspa5	Heat shock 70kD protein 5 (glucose-regulated protein)
0.24	0.04	Mm.214950	Acta1	Actin, alpha 1, skeletal muscle
0.24	0.09	Mm.1451	Mfge8	Milk fat globule-EGF factor 8 protein
0.24	0.05	Mm.276381	Tnpo3	MKIAA4133 protein
0.24	0.09	Mm.372389	Eno1	Enolase 1, alpha non-neuron
0.25	0.11	Mm.273538	Tubb5	Tubulin, beta 5
0.25	0.16	Mm.379044	Ywhaz	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
0.25	0.08	Mm.306026	Epb4.112	4.1G protein (Epb4.112 gene) splice variant
0.25	0.16	Mm.2785	Dbi	Diazepam binding inhibitor
0.25	0.09	AK019927	not found	not found

0.25	0.11	Mm.379457	Vcp	Valosin containing protein
0.25	0.17	Mm.3555	Vdac1	Voltage-dependent anion channel 1
0.25	0.13	Mm.45580	Aqp5	Aquaporin 5
0.25	0.13	Mm.352239	Gpsn2	Glycoprotein, synaptic 2
0.25	0.02	Mm.29196	Cyc1	Cytochrome c-1
0.25	0.03	Mm.158231	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein
0.25	0.09	Mm.18625	Aqp1	Aquaporin 1
0.25	0.05	Mm.1008	Ptgds	Prostaglandin D2 synthase (brain)
0.25	0.04	Mm.371545	Arbp	Acidic ribosomal phosphoprotein P0
0.25	0.04	Mm.371552	Cd63	Cd63 antigen
0.25	0.04	Mm.337038	Arpc2	Actin related protein 2/3 complex, subunit 2
0.25	0.09	Mm.347009	Prdx2	Peroxiredoxin 2
0.25	0.09	Mm.3128	Cox7c	Cytochrome c oxidase, subunit VIIc
0.25	0.07	Mm.379295	Glo1	Glyoxalase 1
0.25	0.08	Mm.17604	Gnb5	Guanine nucleotide binding protein, beta 5
0.25	0.11	Mm.11535	Wdr23	WD repeat domain 23
0.25	0.06	Mm.316179	Ftl1	Ferritin light chain 1
0.25	0.06	Mm.334160	Spon1	Spondin 1
0.25	0.09	AK122514	not found	Mus musculus mRNA for mKIAA1466 protein
0.25	0.11	Mm.249986	2410016F01Rik	Ring finger protein 187
0.25	0.10	Mm.18590	Tm4sf2	Tetraspanin 7
0.25	0.17	Mm.248827	Canx	Calnexin
0.25	0.12	Mm.26680	1110031B06Rik	RIKEN cDNA 1110031B06 gene
0.25	0.09	Mm.180013	Aes	Amino-terminal enhancer of split
0.25	0.13	M10062	not found	not found
0.25	0.10	Mm.212763	2210412K09Rik	Chromatin modifying protein 5

0.25	0.02	Mm.294263	Rp1h	Mus musculus retinitis pigmentosa 1 homolog (human)
0.25	0.08	Mm.276802	Snrpg	Small nuclear ribonucleoprotein polypeptide G
0.25	0.07	Mm.335942	Set	SET translocation
0.25	0.17	Mm.279821	Eif4a1	Eukaryotic translation initiation factor 4A1
0.25	0.10	Mm.315189	H3f3a	H3 histone, family 3A
0.25	0.13	Mm.342959	Krt1-12	Keratin complex 1, acidic, gene 12
0.25	0.13	AK122514	not found	Mus musculus mRNA for mKIAA1466 protein
0.25	0.10	Mm.153272	Tgfbli4	TSC22-related inducible leucine zipper 1b
0.25	0.13	Mm.181430	Dnchc1	Dynein, cytoplasmic, heavy chain 1
0.25	0.07	Mm.29405	Rbx1	Ring-box 1
0.25	0.07	Mm.261672	Hist1h2bf	Histone 1, H2bf
0.25	0.09	Mm.30085	Akr1a4	Aldo-keto reductase family 1, member A4 (aldehyde reductase)
0.25	0.10	Mm.277488	not found	Structural glucose phosphate isomerase 1
0.25	0.06	Mm.260877	BC016201	cDNA sequence BC016201
0.26	0.06	Mm.134516	Otx2	Orthodenticle homolog 2 (Drosophila)
0.26	0.11	Mm.101141	Rnf121	Ring finger protein 121
0.26	0.08	Mm.25148	Atp6ap2	ATPase, H ⁺ transporting, lysosomal accessory protein 2
0.26	0.04	Mm.133851	Mrpl12	Mitochondrial ribosomal protein L12
0.26	0.19	Mm.156506	Pcdh21	Protocadherin 21
0.26	0.13	Mm.24006	S100a14	S100 calcium binding protein A14
0.26	0.08	Mm.277713	D3Jfr1	Cold shock domain containing E1, RNA binding
0.26	0.04	Mm.1948	Tctex1	T-complex testis expressed 1
0.26	0.11	Mm.293605	Trp53inp2	Tumor protein p53 inducible nuclear protein 2
0.26	0.13	Mm.260256	Eif4g1	Eukaryotic translation initiation factor 4, gamma 1, transcript variant 1
0.26	0.08	Mm.235123	Immt	Inner membrane protein, mitochondrial
0.26	0.07	Mm.300083	4933434E20Rik	RIKEN cDNA 4933434E20 gene

0.26	0.16	Mm.273277	Trim29	Tripartite motif protein 29
0.26	0.11	Mm.261679	Wwp2	Ribosomal protein S26
0.26	0.11	Mm.383179	Got2	Glutamate oxaloacetate transaminase 2
0.26	0.11	Mm.290110	Dnajb6	DnaJ (Hsp40) homolog, subfamily B, member 6
0.26	0.15	Mm.30155	Atp6v0c	ATPase, H ⁺ transporting, V0 subunit C
0.26	0.04	Mm.249110	Snrpe	Small nuclear ribonucleoprotein E
0.26	0.07	Mm.371635	Pin4	protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4 [Mus musculus]
0.26	0.12	Mm.33263	H2-D1	Histocompatibility 2, D region
0.26	0.07	Mm.27886	2410011G03Rik	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
0.26	0.05	Mm.248906	Sca10	Spinocerebellar ataxia 10 homolog (human)
0.26	0.08	Mm.41271	Stard7	START domain containing 7
0.26	0.03	Mm.290022	Eif4b	Eukaryotic translation initiation factor 4B (Eif4b)
0.26	0.07	Mm.17851	Ndufa3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3
0.26	0.13	Mm.274376	Rdh10	Retinol dehydrogenase 10 (all-trans)
0.26	0.14	Mm.16716	Lamp1	Lysosomal membrane glycoprotein 1
0.26	0.14	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.26	0.09	AK088963	not found	not found
0.26	0.13	Mm.306770	Mylc2b	Myosin light chain, regulatory B
0.26	0.08	Mm.544	Pea15	Phosphoprotein enriched in astrocytes 15
0.26	0.05	Mm.378930	Gstp1	Glutathione S-transferase, pi 1
0.26	0.04	Mm.3981	Cops6	COP9 (constitutive photomorphogenic) homolog, subunit 6 (Arabidopsis thaliana)
0.26	0.13	Mm.316179	Ftl1	Ferritin light chain 1
0.27	0.07	Mm.305152	Apoe	Apolipoprotein E
0.27	0.09	AK088963	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
0.27	0.11	K00987	not found	not found
0.27	0.05	Mm.192285	A930004D23Rik	Complexin 4

0.27	0.13	Mm.29317	Actr10	ARP10 actin-related protein 10 homolog (<i>S. cerevisiae</i>)
0.27	0.07	Mm.216135	Pkm2	Pyruvate kinase, muscle
0.27	0.08	Mm.271744	Pfn2	Profilin 2
0.27	0.14	Mm.21669	Ndufs2	NADH dehydrogenase (ubiquinone) Fe-S protein 2
0.27	0.12	Mm.5265	2310016M24Rik	RIKEN cDNA 2310016M24 gene
0.27	0.07	Mm.349277	Rpl18	Ribosomal protein L18
0.27	0.09	Mm.336329	Uba52	Ubiquitin A-52 residue ribosomal protein fusion product 1
0.27	0.12	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.27	0.09	Mm.258955	2510003E04Rik	RIKEN cDNA 2510003E04 gene
0.27	0.04	Mm.371592	Ubb	Ubiquitin B
0.27	0.13	AK122514	not found	hypothetical protein LOC639857
0.27	0.08	Mm.23758	Poldip3	Polymerase (DNA-directed), delta interacting protein 3
0.27	0.11	Mm.28897	Pyp	Pyrophosphatase
0.27	0.08	Mm.16756	Si	Silver
0.27	0.02	Mm.260527	Lcmt1	Leucine carboxyl methyltransferase 1
0.27	0.10	Mm.31927	Tm4sf9	Tetraspanin 5
0.27	0.08	Mm.291370	Rds	Retinal degeneration, slow (retinitis pigmentosa 7)
0.27	0.11	Mm.362119	Cox7a2l	Cytochrome c oxidase subunit VIIa polypeptide 2-like
0.27	0.09	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.27	0.05	Mm.29939	Ndufa9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9
0.27	0.09	Mm.297096	Mdh2	Malate dehydrogenase 2, NAD (mitochondrial)
0.27	0.02	Mm.334160	Spon1	Spondin 1, (f-spondin) extracellular matrix protein
0.27	0.10	Mm.29924	Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1
0.27	0.07	Mm.252255	Psma2	Proteasome (prosome, macropain) subunit, alpha type 2
0.27	0.08	Mm.23693	Dncl2a	Dynein, cytoplasmic, light chain 2A
0.27	0.11	Mm.29742	Cd24a	CD24a antigen

0.27	0.09	Mm.379006	Rps29	Ribosomal protein S29
0.28	0.13	AK122514	not found	Mus musculus mRNA for mKIAA1466 protein
0.28	0.15	Mm.277349	Park7	Parkinson disease (autosomal recessive, early onset) 7
0.28	0.19	Mm.340163	Myh8	Myosin, heavy polypeptide 4, skeletal muscle
0.28	0.08	Mm.378896	Cnga1	cGMP-gated cation channel protein
0.28	0.15	Mm.14719	Gsta3	Glutathione S-transferase, alpha 3
0.28	0.13	Mm.233813	Ywhag	3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
0.28	0.11	Mm.19133	Aplp2	Amyloid beta (A4) precursor-like protein 2
0.28	0.08	Mm.27365	Fath	FATH protein
0.28	0.15	Mm.371546	Arf1	ADP-ribosylation factor 1
0.28	0.06	Mm.290353	1810045K07Rik	Transmembrane protein 66
0.28	0.16	Mm.42855	Ptov1	Prostate tumor over expressed gene 1
0.28	0.08	Mm.358649	Banf1	Barrier to autointegration factor 1
0.28	0.10	Mm.34609	Plac8	C15 protein
0.28	0.14	Mm.88212	Tuba6	Tubulin, alpha 6
0.28	0.08	Mm.201455	Scamp1	Secretory carrier membrane protein 1
0.28	0.14	Mm.182962	Eif3s5	Eukaryotic translation initiation factor 3, subunit 5 (epsilon)
0.28	0.08	Mm.158231	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
0.28	0.10	Mm.271703	Gnai3	Guanine nucleotide binding protein, alpha inhibiting 3
0.28	0.10	Mm.2766	Pvalb	Parvalbumin
0.28	0.11	Mm.243234	Psmc2	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
0.28	0.16	Mm.30438	Tyrp1	Tyrosinase-related protein 1
0.28	0.09	Mm.134516	Otx2	Orthodenticle homolog 2 (Drosophila)
0.28	0.13	Mm.271275	Ifi27	Interferon stimulated gene 12
0.28	0.13	Mm.38951	Sucla2	ATP-specific succinyl-CoA synthetase beta subunit
0.28	0.11	Mm.3532	Tmsb10	Thymosin, beta 10

0.28	0.07	Mm.34268	Cdc42ep5	CDC42 effector protein (Rho GTPase binding) 5
0.28	0.07	Mm.45044	Srf	Serum response factor
0.28	0.04	Mm.311549	Atp6v1d	ATPase, H ⁺ transporting, V1 subunit D
0.28	0.14	Mm.255631	Slc17a7	Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7
0.28	0.06	Mm.273496	Zfr	Zinc finger RNA binding protein
0.28	0.12	Mm.263124	Ly6a	Lymphocyte antigen 6 complex, locus A
0.28	0.09	Mm.1971	Calr	Calreticulin
0.28	0.10	Mm.182912	Ghitm	Growth hormone inducible transmembrane protein
0.28	0.07	Mm.373613	Mpp4	Membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)
0.28	0.07	Mm.40324	Cryba4	Crystallin, beta A4
0.28	0.07	Mm.22085	Arl3	ADP-ribosylation factor-like 3
0.28	0.17	Mm.1186	Car2	Carbonic anhydrase 2
0.28	0.03	Mm.45436	Lyzs	Lysozyme
0.29	0.11	Mm.19834	Ndufa8	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8
0.29	0.08	Mm.291247	Arl1	ADP-ribosylation factor-like 1
0.29	0.13	Mm.294138	Ppp2r1a	Protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform
0.29	0.03	Mm.4871	Timp3	Timp3: Tissue inhibitor of metalloproteinase 3
0.29	0.14	Mm.21629	Abcf2	ATP-binding cassette, sub-family F (GCN20), member 2
0.29	0.11	Mm.306954	Car14	Carbonic anhydrase 14
0.29	0.05	Mm.29214	2010311D03Rik	RIKEN cDNA 2010311D03 gene
0.29	0.09	Mm.14825	Idh3g	Isocitrate dehydrogenase 3 (NAD ⁺), gamma
0.29	0.08	Mm.220038	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
0.29	0.12	Mm.2125	Them2	Thioesterase superfamily member 2
0.29	0.11	Mm.379116	2010107H07Rik	PREDICTED: Mus musculus RIKEN cDNA 2010107H07 gene
0.29	0.04	Mm.28405	Sgk	Serum/glucocorticoid regulated kinase
0.29	0.10	Mm.4071	Lamr1	Laminin receptor 1 (ribosomal protein SA)

0.29	0.12	Mm.21454	Cbr2	Carbonyl reductase 2
0.29	0.08	Mm.378928	Gstm1	Glutathione S-transferase, mu 1
0.29	0.17	Mm.30837	Ndrp1	N-myc downstream regulated gene 1
0.29	0.09	Mm.34641	Amfr	Autocrine motility factor receptor
0.29	0.12	Mm.33304	Pdcd5	Programmed cell death 5
0.29	0.09	Mm.22130	Rpn2	Ribophorin II
0.29	0.09	Mm.258320	Usp33	Ubiquitin specific peptidase 33
0.29	0.06	Mm.289431	Eef2	Eukaryotic translation elongation factor 2
0.29	0.10	Mm.30119	Sc4mol	Sterol-C4-methyl oxidase-like
0.29	0.13	Mm.236553	Ctsb	Cathepsin B
0.29	0.13	Mm.214746	Fbxl3	F-box and leucine-rich repeat protein 3
0.29	0.13	Mm.2645	Eef1a2	Eukaryotic translation elongation factor 1 alpha 2
0.29	0.15	Mm.221275	Rtn1	Reticulon 1, transcript variant 1
0.29	0.10	Mm.371688	Btf3	Basic transcription factor 3
0.29	0.15	Mm.371598	Ncoa4	Nuclear receptor coactivator 4
0.29	0.07	Mm.218198	Psmc14	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 14
0.29	0.11	Mm.313076	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
0.29	0.11	Mm.279823	Ndufa11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 11
0.29	0.11	Mm.378896	Cnga1	CGMP-gated cation channel protein
0.29	0.07	Mm.249096	Atp6v1b2	ATPase, H ⁺ transporting, V1 subunit B, isoform 2
0.29	0.05	Mm.304265	Rpl29	Ribosomal protein L29, mRNA
0.29	0.10	Mm.4646	Krt1-13	Keratin complex 1, acidic, gene 13
0.29	0.06	Mm.14825	Idh3g	Isocitrate dehydrogenase 3 (NAD ⁺), gamma
0.29	0.13	Mm.27839	D19Ert721e	DNA segment, Chr 19, ERATO Doi 721, expressed
0.29	0.04	Mm.271174	Skiip	SNW domain containing 1
0.29	0.12	Mm.352311	Dtnbp1	Dystrobrevin binding protein 1

0.29	0.14	Mm.255631	Slc17a7	Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter)
0.29	0.11	Mm.4337	Ei24	Etoposide induced 2.4
0.29	0.02	Mm.1129	Ndufb10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10
0.29	0.09	Mm.158231	Sdha	Succinate dehydrogenase complex, subunit A, flavoprotein
0.29	0.10	Mm.379059	Atp5f1	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit g
0.30	0.10	Mm.256858	Dncl1	Dynein, cytoplasmic, light chain 1
0.30	0.08	Mm.261570	Gtf2i	Transcription factor TFII-I-alpha
0.30	0.08	Mm.383225	Gtf2f2	General transcription factor IIF, polypeptide 2
0.30	0.17	Mm.1716	Tnnc2	Troponin C2, fast
0.30	0.16	Mm.379148	2700060E02Rik	RIKEN cDNA 2700060E02 gene
0.30	0.11	Mm.269815	Cd164	CD164 antigen
0.30	0.09	Mm.112632	6330583M11Rik	RIKEN cDNA 6330583M11 gene
0.30	0.02	Mm.87773	Tra1	Tumor rejection antigen gp96
0.30	0.14	Mm.18565	Plp2	Proteolipid protein 2
0.30	0.12	Mm.155783	1300018I05Rik	RIKEN cDNA 1300018I05 gene
0.30	0.12	Mm.19133	Aplp2	Amyloid beta (A4) precursor-like protein 2
0.30	0.10	Mm.330538	Slc24a5	Solute carrier family 24, member 5
0.30	0.14	Mm.38951	Sucla2	ATP-specific succinyl-CoA synthetase beta subunit
0.30	0.06	Mm.27886	2410011G03Rik	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
0.30	0.09	Mm.275413	Tdrd7	Tudor domain containing 7
0.30	0.06	Mm.3158	Rplp1	Ribosomal protein, large, P1
0.30	0.13	Mm.296985	Cct4	Chaperonin subunit 4 (delta)
0.30	0.13	Mm.259976	Adipor1	Adiponectin receptor 1
0.30	0.08	Mm.294263	Rp1h	Mus musculus retinitis pigmentosa 1 homolog (human)
0.30	0.11	Mm.192580	Rtn4	RTN4
0.30	0.11	Mm.235123	Immt	Inner membrane protein, mitochondrial

0.30	0.05	Mm.283217	C2	Complement component 2 (within H-2S)
0.30	0.15	Mm.35016	H2-T23	Histocompatibility 2, T region locus 23
0.30	0.10	Mm.263177	Grp58	Protein disulfide isomerase associated 3
0.30	0.11	AK088963	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
0.30	0.04	Mm.371563	H3f3b	H3 histone, family 3B
0.30	0.08	Mm.207052	Atp6v0b	ATPase, H ⁺ transporting
0.30	0.10	Mm.292510	Rac1	RAS-related C3 botulinum substrate 1
0.30	0.09	Mm.246881	1110015E22Rik	Glycerophosphodiester phosphodiesterase domain containing 3
0.30	0.11	Mm.31625	Mip	Major intrinsic protein of eye lens fiber
0.30	0.11	Mm.290960	Clptm1	Cleft lip and palate associated transmembrane protein 1
0.30	0.11	Mm.15125	Sdfr1	Stromal cell derived factor receptor 1
0.30	0.10	Mm.830	Psmel	Proteasome (prosome, macropain) 28 subunit, alpha
0.30	0.11	Mm.333849	Ndg2	Nur77 downstream gene 2
0.30	0.15	Mm.17613	6330514A18Rik	RIKEN cDNA 6330514A18 gene
0.30	0.14	Mm.315962	Pgam1	Phosphoglycerate mutase 1
0.30	0.10	Mm.270278	Tef	Thyrotroph embryonic factor, transcript variant 2
0.30	0.08	Mm.18539	Pink1	PINK1 mRNA for PTEN induced putative kinase 1
0.30	0.14	Mm.21961	Atp6ap1	ATPase, H ⁺ transporting, lysosomal accessory protein 1
0.30	0.13	Mm.124176	Limk2	LIM motif-containing protein kinase 2
0.31	0.10	Mm.12758	Fkbp4	FK506 binding protein 4
0.31	0.10	Mm.27606	Tmed3	Transmembrane emp24 domain containing 3
0.31	0.11	Mm.256875	2900006B13Rik	RIKEN cDNA 2900006B13 gene
0.31	0.08	Mm.141054	5530600A18Rik	Ankyrin repeat domain 40
0.31	0.14	Mm.272460	Gabarap	Gamma-aminobutyric acid receptor associated protein
0.31	0.14	Mm.290774	not found	MRNA fragment for heat shock cognate hsc73
0.31	0.06	Mm.276337	Rpl17	Ribosomal protein L17

0.31	0.08	Mm.248360	Anxa1	Annexin A1
0.31	0.12	Mm.266875	Ppl	Periplakin
0.31	0.11	Mm.52	D11Ert99e	DNA segment, Chr 11, ERATO Doi 99, expressed
0.31	0.07	Mm.258204	Nsep1	Mus musculus similar to nuclease sensitive element binding protein 1
0.31	0.07	Mm.289810	Rpl14	Ribosomal protein L14
0.31	0.09	Mm.209385	Lpp	Mortality factor 4 like 1
0.31	0.14	Mm.124176	Limk2	LIM motif-containing protein kinase 2
0.31	0.04	Mm.24118	Gstt2	Glutathione S-transferase, theta 2
0.31	0.05	Mm.29296	Sec13l1	SEC13-like 1 (<i>S. cerevisiae</i>)
0.31	0.11	Mm.378944	Hspd1	Heat shock protein 1 (chaperonin)
0.31	0.11	Mm.38993	Clstn1	Calsyntenin 1
0.31	0.09	Mm.379226	Cabp4	Calcium binding protein 4
0.31	0.17	Mm.233470	Igfbp7	Insulin-like growth factor binding protein 7
0.31	0.12	Mm.234832	Igsf4a	RA175
0.31	0.09	Mm.270278	Tef	Thyrotroph embryonic factor, transcript variant 2
0.31	0.07	Mm.374758	Fau	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived)
0.31	0.08	Mm.248615	Lgals3	Lectin, galactose binding, soluble 3
0.31	0.09	AK050666	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
0.31	0.08	Mm.333597	Ap2s1	Adaptor-related protein complex 2, sigma 1 subunit
0.31	0.17	Mm.275555	Cnn3	Calponin 3, acidic
0.31	0.14	Mm.3624	Guk1	Guanylate kinase 1
0.31	0.09	Mm.154136	2500003M10Rik	RIKEN cDNA 2500003M10 gene
0.31	0.11	Mm.3925	S100a4	S100 calcium binding protein A4
0.31	0.11	Mm.27365	Fath	FATH protein
0.31	0.10	Mm.217318	Mtap4	Microtubule-associated protein 4
0.31	0.11	Mm.342703	Kif13a	KIF13A

0.31	0.11	Mm.246990	Rtn3	Reticulon 3, transcript variant 4
0.31	0.13	AK088963	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
0.31	0.06	Mm.38274	Chi311	Chitinase 3-like 1
0.31	0.15	Mm.268027	2900064A13Rik	RIKEN cDNA 2900064A13 gene
0.31	0.14	Mm.163	B2m	Beta-2 microglobulin
0.31	0.11	Mm.43871	Trim35	Tripartite motif-containing 35
0.31	0.08	Mm.214950	Acta1	Actin, alpha 1, skeletal muscle
0.31	0.06	Mm.379251	Rpl18a	Ribosomal protein L18A
0.31	0.12	Mm.2777	Tpd52	PC-1
0.31	0.09	Mm.290960	Clptm1	Cleft lip and palate associated transmembrane protein 1
0.31	0.12	Mm.246377	Tubb2	Tubulin, beta 2
0.31	0.04	Mm.41890	2010315L10Rik	RIKEN cDNA 2010315L10 gene
0.31	0.13	Mm.30156	Prss11	HtrA serine peptidase 1
0.31	0.12	Mm.38055	Esd	Esterase D/formylglutathione hydrolase
0.31	0.12	Mm.424	Atp1b3	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide
0.32	0.09	Mm.27955	Wbscr1	Williams-Beuren syndrome chromosome region 1 homolog (human)
0.32	0.10	Mm.22602	Atp6v0e	ATPase, H ⁺ transporting, V0 subunit
0.32	0.10	Mm.290774	not found	MRNA fragment for heat shock cognate hsc73
0.32	0.07	Mm.34242	Pmvk	Phosphomevalonate kinase
0.32	0.17	Mm.267027	Lim2	Lens intrinsic membrane protein 2
0.32	0.13	Mm.305990	not found	RIKEN cDNA 2310028O11 gene
0.32	0.15	Mm.207814	1500016O10Rik	Mus musculus RIKEN cDNA A330104J06 gene
0.32	0.10	Mm.27278	Nme3	Expressed in non-metastatic cells 3
0.32	0.10	Mm.3118	Actr1a	ARPI actin-related protein 1 homolog A (yeast)
0.32	0.05	Mm.175403	Arl6ip2	ADP-ribosylation factor-like 6 interacting protein 2
0.32	0.12	Mm.327618	Stfa1	Stefin A1

0.32	0.08	Mm.28919	Dstn	Destrin
0.32	0.18	Mm.197518	Laptm4b	Lysosomal-associated protein transmembrane 4B
0.32	0.11	Mm.27606	Tmed3	Transmembrane emp24 domain containing 3
0.32	0.12	Mm.276042	Actn4	Actinin alpha 4
0.32	0.10	Mm.296560	Slc38a3	Solute carrier family 38, member 3
0.32	0.13	Mm.2654	Wdr1	WD repeat domain 1
0.32	0.13	Mm.281896	Cldn7	Claudin 7
0.32	0.06	Mm.28291	2410005K20Rik	RIKEN cDNA 2410005K20 gene
0.32	0.11	Mm.291442	Sparc	Secreted acidic cysteine rich glycoprotein
0.32	0.05	Mm.22130	Rpn2	Ribophorin II
0.32	0.03	Mm.342703	Kif13a	KIF13A
0.32	0.13	Mm.379002	Rpl28	Ribosomal protein L28
0.33	0.11	BC050259	not found	Mus musculus tumor necrosis factor, alpha-induced protein 3
0.33	0.11	Mm.218286	Mgst3	Microsomal glutathione S-transferase 3
0.33	0.10	Mm.18946	Ap2m1	Adaptor protein complex AP-2, mu1
0.33	0.12	Mm.160040	Grifin	galectin-related inter-fiber protein
0.33	0.01	Mm.360232	Cct6a	Chaperonin subunit 6a (zeta)
0.33	0.11	Mm.285322	Mtch1	Mitochondrial carrier homolog 1 (C. elegans)
0.33	0.12	Mm.29045	Atp6v1e1	V-ATPase E2 subunit
0.33	0.13	Mm.193041	Map3k7ip2	Mitogen-activated protein kinase kinase kinase 7 interacting protein 2
0.33	0.09	Mm.27900	1810013D10Rik	RIKEN cDNA 1810013D10 gene
0.33	0.09	Mm.29353	2010110M21Rik	HIG1 domain family, member 2A
0.33	0.11	Mm.249695	Ppm1b	Protein phosphatase 1B, magnesium dependent, beta isoform
0.33	0.12	Mm.23758	Poldip3	Polymerase (DNA-directed), delta interacting protein 3
0.33	0.04	Mm.23872	A330096I21Rik	RIKEN cDNA A330096I21 gene
0.33	0.14	Mm.133037	Egln3	EGL nine homolog 3 (C. elegans)

0.33	0.09	Mm.279823	Ndufa11	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 11
0.33	0.07	Mm.386758	Cox4i1	Cytochrome c oxidase subunit IV isoform 1
0.33	0.02	Mm.334206	Uqcrc2	Ubiquinol cytochrome c reductase core protein 2
0.33	0.13	Mm.180189	Dgat2	Diacylglycerol O-acyltransferase 2
0.33	0.12	Mm.265744	Dscr1	Down syndrome critical region homolog 1 (human)
0.33	0.11	Mm.196580	Ube2m	Ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast)
0.33	0.05	Mm.379231	Actr3	ARP3 actin-related protein 3 homolog (yeast)
0.33	0.11	Mm.322294	Ndufb9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9
0.33	0.13	Mm.296566	Nedd8	Neural precursor cell expressed, developmentally down-regulated gene 8
0.33	0.12	Mm.56769	Dcn	Decorin
0.33	0.08	Mm.34095	not found	similar to Snrpf protein [Mus musculus]
0.33	0.06	Mm.2060	Ndufb8	NADH dehydrogenase (ubiquinone) 1 beta subcomplex 8
0.33	0.12	Mm.200916	Gpx3	Glutathione peroxidase 3
0.33	0.01	Mm.158902	1810044A24Rik	RIKEN cDNA 1810044A24 gene
0.33	0.04	Mm.29739	9030407H20Rik	Transmembrane protein 40
0.33	0.08	Mm.27570	Ndufa6	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6 (B14)
0.33	0.11	Mm.24724	Ppp1r3c	Protein phosphatase 1, regulatory (inhibitor) subunit 3C
0.33	0.11	Mm.285993	Calm1	Calmodulin 1
0.33	0.05	Mm.29923	Sumo2	SMT3 suppressor of mif two 3 homolog 2 (yeast)
0.33	0.08	Mm.378899	Crybb3	Crystallin, beta B3
0.33	0.09	Mm.378994	Rab18	RAB18, member RAS oncogene family
0.33	0.14	Mm.154136	2500003M10Rik	RIKEN cDNA 2500003M10 gene
0.33	0.05	Mm.258633	Stip1	Stress-induced phosphoprotein 1
0.33	0.13	Mm.4071	Lamr1	Laminin receptor 1
0.33	0.06	Mm.155896	Hnrpa2b1	Heterogeneous nuclear ribonucleoprotein A2/B1
0.34	0.15	Mm.14022	Cox8a	Cytochrome c oxidase, subunit VIIIa

0.34	0.08	Mm.43871	Trim35	Tripartite motif-containing 35
0.34	0.06	Mm.130793	Upk1b	Uroplakin 1B
0.34	0.07	Mm.15701	Trim28	Tripartite motif protein 28
0.34	0.06	Mm.27270	Dctn5	Dynactin 5
0.34	0.03	Mm.21749	5430437P03Rik	RIKEN cDNA 5430437P03 gene
0.34	0.03	Mm.3913	Eno2	Enolase 2, gamma neuronal
0.34	0.06	Mm.29122	0610012D09Rik	RIKEN cDNA 0610012D09 gene
0.34	0.06	Mm.378960	Gzmm	Granzyme M (lymphocyte met-ase 1)
0.34	0.10	AK002571	not found	Mus musculus adult male kidney cDNA
0.34	0.09	Mm.240850	Bcas1	Breast carcinoma amplified sequence 1
0.34	0.04	Mm.3757	Prpf8	Pre-mRNA processing factor 8
0.34	0.14	Mm.383283	4930412F15Rik	Small EDRK-rich factor 2
0.34	0.06	Mm.297768	Arf4	ADP-ribosylation factor 4
0.34	0.07	Mm.297196	2810055E05Rik	RIKEN cDNA 2810055E05 gene
0.34	0.07	Mm.378897	Cox6c	Cytochrome c oxidase, subunit Vic
0.34	0.16	Mm.180013	Aes	Amino-terminal enhancer of split
0.34	0.06	Mm.241604	1110060F11Rik	RER1 retention in endoplasmic reticulum 1 homolog
0.34	0.11	Mm.266668	BC005537	RIKEN cDNA 8030460C05 gene
0.34	0.05	Mm.175403	Arl6ip2	ADP-ribosylation factor-like 6 interacting protein 2
0.34	0.12	Mm.29405	Rbx1	Ring-box 1
0.34	0.10	Mm.289900	Cct7	Chaperonin subunit 7 (eta)
0.34	0.05	Mm.56987	Opn1sw	Opsin 1 (cone pigments), short-wave-sensitive (color blindness, tritan)
0.34	0.07	Mm.249986	2410016F01Rik	Ring finger protein 187
0.34	0.07	Mm.379371	Aamp	Angio-associated migratory protein
0.34	0.10	Mm.24174	Aars	Alanyl-tRNA synthetase
0.34	0.09	Mm.6065	Impdh2	Inosine 5'-phosphate dehydrogenase 2

0.34	0.09	Mm.379009	Sat1	Spermidine/spermine N1-acetyl transferase 1
0.34	0.06	Mm.280233	Ube2b	Ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae)
0.34	0.12	Mm.319038	Dad1	Defender against cell death 1
0.34	0.11	Mm.204969	Spna2	Spectrin alpha 2
0.34	0.09	Mm.30156	Prss11	HtrA serine peptidase 1
0.34	0.12	Mm.21855	Pglyrp1	Peptidoglycan recognition protein 1
0.34	0.03	Mm.286349	Plrg1	Pleiotropic regulator 1, PRL1 homolog (Arabidopsis)
0.34	0.08	Mm.22216	Dsip1	TSC22 domain family 3
0.35	0.02	Mm.193212	6430559E15Rik	Hydroxypyruvate isomerase homolog (E. coli)
0.35	0.06	Mm.2654	Wdr1	WD repeat domain 1
0.35	0.05	Mm.243234	Psmc2	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
0.35	0.09	Mm.316438	Ckmt2	Creatine kinase, mitochondrial 2
0.35	0.05	Mm.212927	Tmem38a	Transmembrane protein 38a
0.35	0.13	Mm.335450	Fdps	Farnesyl diphosphate synthetase
0.35	0.07	Mm.353923	Rps12	Ribosomal protein S12
0.35	0.09	Mm.335942	Set	SET translocation
0.35	0.05	Mm.22682	Pip5k2c	Phosphatidylinositol-4-phosphate 5-kinase, type II, gamma
0.35	0.08	Mm.287826	Sfrs9	Splicing factor, arginine/serine rich 9
0.35	0.08	Mm.253329	BC010787	CDNA sequence BC010787
0.35	0.07	Mm.289915	Ddb1	Damaged-DNA recognition protein 1
0.35	0.03	Mm.3757	Prpf8	Pre-mRNA processing factor 8
0.35	0.11	Mm.83949	Elov14	Elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4
0.35	0.06	Mm.29025	Dctn3	Dynactin 3
0.35	0.14	Mm.30155	Atp6v0c	ATPase, H ⁺ transporting, V0 subunit C
0.35	0.11	Mm.38010	Atic	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase
0.35	0.07	Mm.371610	Arpc1a	Actin related protein 2/3 complex, subunit 1A

0.35	0.04	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
0.35	0.05	Mm.252987	Slc12a5	Solute carrier family 12, member 5
0.35	0.07	Mm.27503	1810009A15Rik	RIKEN cDNA 1810009A15 gene
0.35	0.10	Mm.2402	AA536749	Expressed sequence AA536749, transcript variant 1
0.35	0.12	Mm.157105	Psmc1	Protease (prosome, macropain) 26S subunit, ATPase 1
0.35	0.07	Mm.254114	D10Ert214e	DNA segment, Chr 10, ERATO Doi 214
0.35	0.13	Mm.246432	Idh2	Isocitrate dehydrogenase 2 (NADP+), mitochondrial
0.35	0.08	Mm.379226	Cabp4	Calcium binding protein 4
0.35	0.10	Mm.261670	Hist2h2aa1	Histone 2, H2aa1
0.35	0.09	Mm.209385	Lpp	Mortality factor 4 like 1
0.35	0.09	Mm.272582	Pfkm	Phosphofructokinase, muscle
0.35	0.13	Mm.284649	BC005662	CDNA sequence BC005662
0.35	0.07	Mm.275446	Drap1	Dr1 associated protein 1 (negative cofactor 2 alpha)
0.35	0.01	Mm.379115	Rpl36al	Ribosomal protein L36a-like
0.35	0.12	Mm.378901	Csnk2b	Casein kinase II, beta subunit
0.35	0.08	Mm.359377	Rpl29	Ribosomal protein L29
0.35	0.04	Mm.379142	1810037I17Rik	RIKEN cDNA 1810037I17 gene
0.35	0.08	Mm.277585	App	Amyloid beta (A4) precursor protein
0.36	0.05	Mm.41	Atp5o	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
0.36	0.03	Mm.208883	Psma5	Proteasome (prosome, macropain) subunit, alpha type 5
0.36	0.05	Mm.262094	Unc93b1	Unc-93 homolog B1 (C. elegans)
0.36	0.06	Mm.43831	Lgals1	Lectin, galactose binding, soluble 1
0.36	0.10	Mm.86322	Tacc2	Transforming, acidic coiled-coil containing protein 2
0.36	0.08	Mm.222887	Als2cr3	Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 3 (human)
0.36	0.09	Mm.140158	Cyp51	Cytochrome P450, 51
0.36	0.07	Mm.373791	LOC14433	Similar to glyceraldehyde-3-phosphate dehydrogenase

0.36	0.07	Mm.29852	D11Bwg0434e	DNA segment, Chr 11, Brigham & Women's Genetics 0434 expressed
0.36	0.10	Mm.4494	Pkp1	Plakophilin 1
0.36	0.06	Mm.379151	Gltscr2	Glioma tumor suppressor candidate region gene 2
0.36	0.06	Mm.172411	D18Wsu98e	Thioredoxin-like 4
0.36	0.09	Mm.29807	Uchl1	Ubiquitin carboxyl-terminal hydrolase PGP9.5
0.36	0.07	Mm.9277	Pla2g7	Phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)
0.36	0.08	Mm.29683	Ndufb7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7
0.36	0.04	Mm.29488	Crybb1	Crystallin, beta B1
0.36	0.10	Mm.192991	Mt1	Metallothionein 1
0.36	0.11	Mm.16106	C4	Complement component 4 (within H-2S) (C4)
0.36	0.11	Mm.6095	Cstb	Cystatin B
0.36	0.10	Mm.44227	Ndufs8	NADH dehydrogenase (ubiquinone) Fe-S protein 8
0.36	0.07	Mm.3841	Cox8b	Cytochrome c oxidase, subunit VIIIb
0.36	0.13	Mm.188669	2600009E05Rik	hypothetical protein LOC77006 [Mus musculus],
0.36	0.08	Mm.21728	Psm7	Proteasome (prosome, macropain) subunit, alpha type 7
0.36	0.14	Mm.30051	Rnf10	Ring finger protein 10
0.36	0.11	Mm.288567	Hbb-b1	Hemoglobin, beta adult major chain
0.36	0.09	Mm.235132	Zfp3611	Zinc finger protein 36, C3H type-like 1
0.36	0.08	Mm.27210	G6pdx	Glucose-6-phosphate dehydrogenase X-linked
0.36	0.07	Mm.280842	Hnrpab	Heterogeneous nuclear ribonucleoprotein A/B
0.36	0.10	AK083524	not found	pol polyprotein
0.36	0.05	Mm.262447	Rab4b	RAB4B, member RAS oncogene family
0.36	0.10	Mm.12758	Fkbp4	FK506 binding protein 4
0.36	0.10	Mm.208883	Psm5	Proteasome (prosome, macropain) subunit, alpha type 5
0.36	0.05	Mm.142822	Gopc	Golgi associated PDZ and coiled-coil motif containing
0.37	0.12	Mm.358714	Hsbp1	Heat shock factor binding protein 1

0.37	0.07	Mm.379119	Uqcr	Ubiquinol-cytochrome c reductase (6.4kD) subunit
0.37	0.07	Mm.243085	Mglap	Matrix Gla protein
0.37	0.11	Mm.325816	Ppib	Peptidylprolyl isomerase B
0.37	0.12	Mm.194735	not found	13 days embryo liver cDNA, RIKEN full-length enriched library, clone:I920064F20
0.37	0.11	Mm.2326	Mif	Mus musculus macrophage migration inhibitory factor
0.37	0.12	Mm.238973	Atp5b	ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit
0.37	0.07	Mm.294263	Rp1h	Mus musculus photoreceptor specific protein PSP
0.37	0.12	Mm.237103	2610507B11Rik	E1 protein
0.37	0.09	Mm.196110	Hba-a1	Hemoglobin alpha, adult chain 1
0.37	0.09	Mm.383215	1810010N17Rik	Coiled coil domain containing 28B
0.37	0.09	Mm.216135	Pkm2	Pyruvate kinase, muscle
0.37	0.05	Mm.215860	Ascc3l1	MKIAA0788 protein
0.37	0.05	Mm.22109	Acyp2	Acylphosphatase 2, muscle type
0.37	0.05	Mm.21158	Frap1	FK506 binding protein 12-rapamycin associated protein 1
0.37	0.06	Mm.289832	Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
0.37	0.10	Mm.256925	Dbnl	Drebrin-like
0.37	0.04	Mm.287826	Sfrs9	Splicing factor, arginine/serine rich 9
0.37	0.07	Mm.6974	Krt1-14	Keratin complex 1, acidic, gene 14
0.37	0.07	Mm.7838	Ccndbp1	Cyclin D-type binding-protein 1
0.37	0.12	Mm.102278	Scamp5	Secretory carrier membrane protein 5
0.37	0.09	Mm.216227	Csnk1d	Casein kinase 1, delta, transcript variant 2
0.38	0.10	Mm.68170	Kcnj14	Potassium inwardly-rectifying channel, subfamily J, member 14
0.38	0.07	Mm.374791	Gnat2	Guanine nucleotide binding protein, alpha transducing 2
0.38	0.09	Mm.38951	Sucla2	ATP-specific succinyl-CoA synthetase beta subunit
0.38	0.07	Mm.76694	1110067D22Rik	RIKEN cDNA 1110067D22 gene
0.38	0.08	Mm.272139	Nosip	Nosip: Nitric oxide synthase interacting protein

0.38	0.11	Mm.318	2010107E04Rik	RIKEN cDNA 2010107E04 gene
0.38	0.06	Mm.257073	Chn1	Chimerin (chimaerin) 1
0.38	0.01	Mm.227598	Prkcbp1	Protein kinase C binding protein 1
0.38	0.05	Mm.200497	Hadha	Hydroxyacyl-Coenzyme A dehydrogenase
0.38	0.02	Mm.5264	Fez1	Fasciculation and elongation protein zeta 1
0.38	0.11	Mm.3459	Dbp	D site albumin promoter binding protein
0.38	0.08	Mm.203866	2310047C17Rik	AHNAK nucleoprotein (desmoyokin)
0.38	0.06	Mm.134151	BC027072	CDNA sequence BC027072
0.38	0.08	Mm.379127	Psmc6	Proteasome (prosome, macropain) 26S subunit, ATPase, 6
0.38	0.05	Mm.131708	Rpe65	Retinal pigment epithelium 65
0.38	0.11	Mm.5260	Slc6a1	Solute carrier family 6 (neurotransmitter transporter, GABA), member 1
0.38	0.07	Mm.260539	Psmc11	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
0.38	0.12	Mm.29473	Copz1	Coatamer protein complex, subunit zeta 1
0.38	0.07	Mm.273177	Krt1-19	Keratin complex 1, acidic, gene 19
0.38	0.08	Mm.5718	Pik4ca	Phosphatidylinositol 4-kinase, catalytic, alpha polypeptide
0.38	0.08	Mm.29582	Psmc4	Psmc4: Proteasome (prosome, macropain) 26S subunit, ATPase, 4
0.38	0.11	Mm.27098	Snx8	Sorting nexin 8
0.38	0.04	Mm.86589	2310005N03Rik	RIKEN cDNA 2310005N03 gene
0.38	0.09	Mm.209385	Lpp	Mortality factor 4 like 1
0.38	0.09	Mm.334206	Uqcrc2	Ubiquinol cytochrome c reductase core protein 2
0.38	0.05	Mm.102627	0610009D07Rik	RIKEN cDNA 0610009D07 gene
0.38	0.06	Mm.648	Prnp	Prion protein
0.38	0.03	Mm.57035	Itga3	Integrin alpha 3
0.38	0.04	Mm.205830	Gdi1	Guanosine diphosphate (GDP) dissociation inhibitor 1
0.38	0.04	Mm.306026	Epb4.112	4.1G protein (Epb4.112 gene) splice variant
0.38	0.11	Mm.43397	Mrpl54	Mitochondrial ribosomal protein L54

0.38	0.03	Mm.199223	Dhx32	DEAH (Asp-Glu-Ala-His) box polypeptide 32
0.38	0.07	Mm.46431	2310002J15Rik	RIKEN cDNA 2310002J15 gene
0.38	0.09	Mm.222867	Dap	Death-associated protein
0.38	0.13	Mm.806	Cd81	CD 81 antigen
0.39	0.09	Mm.31018	Cyb5	Cytochrome b-5
0.39	0.08	Mm.272722	Tusc3	Tumor suppressor candidate 3,
0.39	0.10	Mm.112632	6330583M11Rik	RIKEN cDNA 6330583M11 gene
0.39	0.09	Mm.293142	Etohi2	Ribonuclease III
0.39	0.05	Mm.379086	Smarce1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, memb. 1
0.39	0.05	Mm.31008	BC022146	Echinoderm microtubule associated protein like 3
0.39	0.07	Mm.140	Ppp1r14b	Protein phosphatase 1, regulatory (inhibitor) subunit 14B
0.39	0.02	Mm.56769	Dcn	Dcn: Decorin
0.39	0.06	Mm.6994	Hadh2	Hydroxyacyl-Coenzyme A dehydrogenase type II
0.39	0.06	Mm.4234	Fkbp2	FK506 binding protein 2
0.39	0.06	Mm.277713	D3Jfr1	Cold shock domain containing E1, RNA binding
0.39	0.10	Mm.29241	AA407659	Expressed sequence AA407659
0.39	0.10	Mm.240850	Bcas1	Breast carcinoma amplified sequence 1
0.39	0.08	Mm.31008	BC022146	Echinoderm microtubule associated protein like 3
0.39	0.08	Mm.291868	Tomm7	Translocase of outer mitochondrial membrane 7 homolog
0.39	0.07	Mm.25263	2700029M09Rik	hypothetical protein LOC72612
0.39	0.04	Mm.226941	Gpsm2	G-protein signalling modulator 2 (AGS3-like, C. elegans)
0.39	0.06	Mm.261037	4732493F09Rik	RIKEN cDNA 4732493F09 gene
0.39	0.10	Mm.378955	Kpna2	Karyopherin (importin) alpha 2
0.39	0.06	Mm.332667	Anapc5	Anaphase-promoting complex subunit 5
0.40	0.07	Mm.116418	A730008L03Rik	A730008L03Rik: RIKEN cDNA A730008L03 gene
0.40	0.08	Mm.2570	C1qb	Complement component 1, q subcomponent, beta polypeptide

0.40	0.01	Mm.356778	Cpsf3	Cleavage and polyadenylation specificity factor 3
0.40	0.03	Mm.271765	Arrdc3	Arrestin domain containing 3
0.40	0.07	Mm.158971	1110001J03Rik	RIKEN cDNA 1110001J03 gene
0.40	0.04	Mm.258939	Abr	Active BCR-related gene, transcript variant 2
0.40	0.04	Mm.24642	AW146242	Expressed sequence AW146242
0.40	0.05	Mm.350054	Tnnt3	Troponin T3, skeletal, fast
0.40	0.05	Mm.20294	Sephs2	Selenophosphate synthetase 2
0.40	0.09	Mm.275411	E130016I23Rik	RIKEN cDNA E130016I23 gene
0.40	0.01	Mm.20805	2410141M05Rik	RIKEN cDNA 2410141M05 gene
0.40	0.09	Mm.330055	Aldh9a1	Aldehyde dehydrogenase 9, subfamily A1
0.40	0.07	Mm.379204	Ppp2cz	Protein phosphatase 1J
0.40	0.11	Mm.46053	Fgfbp1	Fibroblast growth factor binding protein 1
0.40	0.07	Mm.22220	Fabp3	Fatty acid binding protein 3, muscle and heart
0.40	0.03	Mm.29814	Trappc4	Trappc4: Trafficking protein particle complex 4
0.40	0.08	Mm.279287	4930504E06Rik	RIKEN cDNA 4930504E06 gene
0.41	0.04	Mm.150231	Hnrpd	Heterogeneous nuclear ribonucleoprotein
0.41	0.10	Mm.4325	Klf4	Kruppel-like factor 4 (gut)
0.41	0.05	Mm.277599	Stub1	STIP1 homology and U-Box containing protein 1
0.41	0.07	Mm.235137	Scye1	Small inducible cytokine subfamily E, member 1
0.41	0.04	Mm.290022	Eif4b	Eukaryotic translation initiation factor 4B
0.41	0.06	Mm.296158	1300006C19Rik	RIKEN cDNA 1300006C19 gene
0.41	0.08	Mm.207619	Iqgap1	IQ motif containing GTPase activating protein 1
0.41	0.05	Mm.282039	Acly	ATP citrate lyase
0.41	0.04	Mm.324550	1300002A08Rik	RIKEN cDNA 1300002A08 gene
0.41	0.01	Mm.24174	Aars	Alanyl-tRNA synthetase
0.41	0.07	Mm.367230	2700023B17Rik	RIKEN cDNA 2700023B17 gene

0.42	0.06	Mm.293599	Arvcf	Armadillo repeat gene deleted in velo-cardio-facial syndrome
0.42	0.05	Mm.295330	Usp7	Ubiquitin specific peptidase 7
0.42	0.08	Mm.249479	Dncic2	Dynein, cytoplasmic, intermediate chain 2
0.42	0.04	Mm.28327	2510049I19Rik	RIKEN cDNA 2510049I19 gene
0.42	0.06	Mm.244226	1110020G09Rik	hypothetical protein LOC68646 [Mus musculus]
0.42	0.07	Mm.300083	4933434E20Rik	RIKEN cDNA 4933434E20 gene
0.42	0.04	Mm.251255	Ddx1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1
0.42	0.06	Mm.1825	Tff2	Trefoil factor 2 (spasmolytic protein 1)
0.42	0.06	Mm.29027	Sparc11	SPARC-like 1 (mast9, hevin)
0.43	0.04	Mm.292297	Zfp110	Zinc finger protein 110
0.43	0.05	Mm.2948	H2-Ke2	H2-K region expressed gene 2
0.43	0.05	Mm.347369	0610012G03Rik	RIKEN cDNA 0610012G03 gene
0.43	0.02	Mm.37516	Dnajb11	Apobec-1 binding protein 2
0.43	0.07	Mm.227583	Atp2a2	Sarco/endoplasmic reticulum Ca ²⁺ ATPase; SERCA2b
0.44	0.03	Mm.235283	Dpysl2	Dihydropyrimidinase-like 2
0.44	0.03	Mm.156742	9930023K05Rik	RIKEN cDNA 9930023K05 gene
0.44	0.04	Mm.230924	2610208M17Rik	RIKEN cDNA 2610208M17 gene
0.44	0.02	Mm.247036	Xpa	Xeroderma pigmentosum, complementation group A
0.45	0.02	Mm.293255	1110012L19Rik	RIKEN cDNA 1110012L19 gene
0.45	0.01	Mm.319719	Rpl13	Ribosomal protein L13
0.45	0.04	Mm.166524	Ddx47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47
0.45	0.01	Mm.256034	Cct3	Chaperonin subunit 3 (gamma)
0.45	0.03	Mm.272792	Gstm2	Glutathione S-transferase, mu 2
0.45	0.05	Mm.41773	Tmem9	Transmembrane protein 9
0.45	0.02	Mm.34046	Sepm	Selenoprotein M
0.46	0.02	Mm.207432	Atp1a2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide

0.46	0.03	Mm.258773	Zmynd11	Zinc finger, MYND domain containing 11
0.47	0.02	Mm.254495	Tmed4	Transmembrane emp24 protein transport domain containing 4
0.48	0.02	Mm.262480	2010012F05Rik	Chromatin modifying protein 4B

^a RNA was isolated as described in Material and Methods. Aliquots of total RNA isolated from the different tissues were detection-labeled and hybridized on the mouse genomic microarray using a service provided by NimbleGen System Inc. (Madison, WI). The microarray contained the 37,364 genes and covered the entire mouse transcriptome as represented by the University of California, Santa Cruz database (build HG 17), using a minimum of 11 probes per gene. The expression of genes was normalized according to probe signal, and the average signal for each gene was normalized for each sample replicate.

Array data for samples across the whole study were normalized by NimbleGen Systems Inc. (Madison, WI), using the robust multichip analysis feature of the data analysis package contained in <http://www.bioconductor.org>. Project-wide spreadsheets of robust multichip analysis results were processed as described in Materials and Methods. Changes in gene expression greater than or equal to 2-fold for increases or less than or equal to 0.5-fold for decreases were considered significant. The differentially expressed genes were then exported from Access as Excel files and were annotated using Lucidyx Searcher software (<http://www.lucidyx.com>).

^b Standard Deviation.

^c UniGene Cluster ID or Gene Bank accession number was used for Gene description.

Table. S2 Significant changes in the gene expression after 9-*cis*-retinyl acetate treatment in the liver^a.

Changes in the expression	S.D. ^b	Description ^c	Symbol	Gene name
Increased (more than 2.0 fold)				
2.67	0.78	Mm.246377	Tubb2	Tubulin, beta 2
2.67	1.67	Mm.18064	G6pc	Glucose-6-phosphatase, catalytic
2.48	0.97	Mm.288567	Hbb-b1	Hemoglobin, beta adult major chain
2.41	0.99	Mm.246377	Tubb2	Tubulin, beta 2
2.16	0.74	Mm.374868	BC021917	CDNA sequence BC021917
2.01	0.79	Mm.133179	Cyp3a44	Cytochrome P450, CYP3A
2.01	0.62	Mm.379132	Bxdc1	Brix domain containing 1
Decreased (less than 0.5)				
0.25	0.06	Mm.200370	Upp2	Uridine phosphorylase 2
0.29	0.25	NM_133779	not found	Mus musculus phosphatidylinositol glycan, class T
0.36	0.09	Mm.290578	Alas1	Aminolevulinic acid synthase 1
0.41	0.09	Mm.275975	Gys2	Glycogen synthase 2
0.42	0.05	Mm.3459	Dbp	D site albumin promoter binding protein
0.43	0.16	Mm.300	Car3	Carbonic anhydrase 3
0.43	0.14	Mm.350638	Npm1	Nucleophosmin 1
0.44	0.22	Mm.237772	Mup1	Major urinary protein 1
0.44	0.19	Mm.290578	Alas1	Aminolevulinic acid synthase 1
0.45	0.17	Mm.237772	Mup1	Major urinary protein 1

0.45	0.15	Mm.211211	2310032D16Rik	RIKEN cDNA 2310032D16 gene
0.45	0.14	Mm.28585	Thrsp	Thyroid hormone responsive SPOT14 homolog (Rattus)
0.46	0.14	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
0.46	0.10	Mm.272770	Usp2	Ubiquitin specific peptidase 2
0.48	0.17	Mm.254067	H2-Ab1	Histocompatibility 2, class II antigen A, beta 1
0.48	0.13	Mm.4676	Slc7a2	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 2
0.48	0.22	Mm.33240	Eva1	Epithelial V-like antigen 1
0.49	0.04	Mm.299	Inmt	Indolethylamine N-methyltransferase
0.49	0.07	Mm.290079	Serpina6	Serine (or cysteine) peptidase inhibitor, clade A, member 6
0.50	0.07	Mm.347377	Mthfs	5, 10-methenyltetrahydrofolate synthetase

Significant changes in the gene expression after 9-*cis*-retinyl acetate treatment in the kidney^a.

Changes in the expression	S.D. ^b	Description ^c	Symbol	Gene name
Increased (more than 2.0 fold)				
4.93	1.57	Mm.6824	Sult1d1	Sulfotransferase family 1D, member 1
4.33	1.55	Mm.333124	Igk-V8	Immunoglobulin lambda chain, mAb 667
4.15	1.27	S74315	not found	gag=antigen LEC-A
4.13	0.93	Mm.1022	Cdc42	Cell division cycle 42 homolog (<i>S. cerevisiae</i>)
4.08	1.51	Mm.333124	Igk-V8	Immunoglobulin lambda chain, mAb 667
3.96	0.57	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
3.89	1.04	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
3.75	0.58	Mm.41337	Akr1c18	Aldo-keto reductase family 1, member C18
3.69	1.50	Mm.28480	Fkbp3	FK506 binding protein 3
3.64	1.16	Mm.333124	Igk-V8	Immunoglobulin lambda chain, mAb 667
3.52	0.52	Mm.294159	0610011D08Rik	Cytidylate kinase
3.51	1.19	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
3.47	0.53	AK088963	not found	Mus musculus 2 days neonate thymus thymic cells
3.40	1.26	Mm.333124	Igk-V8	Immunoglobulin lambda chain, mAb 667
3.38	0.45	Mm.122725	Mgea5	Meningioma expressed antigen 5 (hyaluronidase)
3.33	0.53	Mm.1909	Gbp4	Guanylate nucleotide binding protein 4
3.25	0.88	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
3.21	0.83	AK077613	not found	Mus musculus 8 days embryo whole body cDNA
3.19	0.75	Mm.28449	B230219D22Rik	RIKEN cDNA B230219D22 gene

3.19	0.75	Mm.171304	2810417D08Rik	RIKEN cDNA 2810417D08 gene
3.15	0.24	M10062	not found	Mouse IgE-binding factor
3.05	0.80	Mm.277585	App	Amyloid beta (A4) precursor protein
3.05	0.37	Mm.30088	Clpx	ClpX protein
3.05	0.50	Mm.38445	Tmod3	Tropomodulin 3
3.04	0.52	Mm.76554	Mpv17l	Mpv17 transgene, kidney disease mutant-like
3.04	0.92	Mm.171304	2810417D08Rik	RIKEN cDNA 2810417D08 gene
3.02	0.58	U16669	not found	Mus musculus clone CCD39 LINE-1 element ORF1
3.01	0.61	Mm.281804	Slc15a2	Solute carrier family 15 (H ⁺ /peptide transporter), member 2
2.98	0.47	Mm.225096	Itga6	Integrin alpha 6
2.97	0.78	Mm.30176	Kcnj16	Potassium inwardly-rectifying channel, subfamily J, member 16
2.96	0.21	AK088963	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
2.90	0.61	Mm.181973	Acbd5	Acyl-Coenzyme A binding domain containing 5
2.90	0.63	Mm.196290	5830411E10Rik	RIKEN cDNA 5830411E10 gene
2.89	0.59	Mm.18628	Cd36	CD36 antigen
2.89	0.79	Mm.369129	5031439A09Rik	RIKEN cDNA 5031439A09 gene
2.85	0.58	Mm.38953	Slco1a6	Solute carrier organic anion transporter family, member 1a6
2.82	0.57	Mm.6442	Pkd2	Polycystic kidney disease 2
2.81	0.43	Mm.297903	9030406N13Rik	Nuclear receptor coactivator 7
2.79	0.53	Mm.135619	Slc33a1	Solute carrier family 33 (acetyl-CoA transporter), member 1
2.76	0.44	Mm.218639	Npn3	Sulfiredoxin 1 homolog (<i>S. cerevisiae</i>)
2.74	0.54	Mm.277626	Ube1c	Ubiquitin-activating enzyme E1C
2.74	0.46	Mm.122430	6130401J04Rik	RIKEN cDNA 6130401J04 gene
2.73	0.38	Mm.292016	Sfrs7	Splicing factor, arginine/serine-rich 7
2.73	0.71	Mm.196581	Mapk1	Mitogen activated protein kinase 1
2.73	0.60	AF303451	not found	Mus musculus endogenous virus intracisternal A-particle clone T-25-Adh-1, long terminal repeat

2.73	0.63	Mm.25148	Atp6ap2	ATPase, H ⁺ transporting, lysosomal accessory protein 2
2.72	0.57	Mm.87773	Tra1	Tumor rejection antigen gp96
2.72	0.44	Mm.27764	Rnf128	E3 ubiquitin ligase
2.72	0.34	Mm.261004	Uchl5	Ubiquitin carboxyl-terminal esterase L5
2.70	0.25	Mm.233009	Rap1b	RAS related protein 1b
2.68	0.30	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
2.68	0.55	Mm.2238	Eif3s10	Eukaryotic translation initiation factor 3, subunit 10 (theta)
2.67	0.10	Mm.217787	Atp6v1a1	ATPase, H ⁺ transporting, V1 subunit A1
2.66	0.33	Mm.152941	Usp16	Ubiquitin specific peptidase 16
2.66	0.56	Mm.270259	Sept7	MKIAA4020 protein
2.66	0.51	AK083524	not found	Mus musculus 9 days embryo whole body cDNA
2.65	0.55	Mm.196371	Ccar1	Cell division cycle and apoptosis regulator 1
2.64	0.17	Mm.328673	Cct8	Chaperonin subunit 8 (theta)
2.63	0.38	Mm.240224	Rab2	RAB2, member RAS oncogene family
2.63	0.63	AK008468	not found	Mus musculus adult male small intestine cDNA
2.56	0.40	Mm.37558	Lrrk2	Leucine-rich repeat kinase 2
2.56	0.45	Mm.240066	Psme4	Proteasome (prosome, macropain) activator subunit 4
2.55	0.31	Mm.286127	Elov17	ELOVL family member 7, elongation of long chain fatty acids (yeast)
2.54	0.35	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
2.52	0.26	Mm.351579	1110005A23Rik	RIKEN cDNA 1110005A23 gene
2.49	0.25	Mm.9806	1810036I24Rik	RIKEN cDNA 1810036I24 [Mus musculus]
2.48	0.25	S74315	not found	gag=antigen LEC-A
2.48	0.27	Mm.139176	Col4a3	Alpha 3 collagen IV
2.48	0.45	Mm.2718	Eef1b2	Eukaryotic translation elongation factor 1 beta 2
2.45	0.28	Mm.316652	Hmgcr	3-hydroxy-3-methylglutaryl-Coenzyme A reductase
2.43	0.30	Mm.30166	Ncb5or	NADPH cytochrome B5 oxidoreductase

2.42	0.24	AK088963	not found	Mus musculus 2 days neonate thymus thymic cells cDNA
2.42	0.31	Mm.10160	Cggbp1	CGG triplet repeat binding protein 1
2.41	0.29	Mm.205190	Mll5	Myeloid/lymphoid or mixed-lineage leukemia 5
2.41	0.02	Mm.38193	Zfp292	Zinc finger protein 292
2.40	0.32	Mm.289103	Zfp451	Zinc finger protein 451
2.39	0.08	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
2.39	0.09	Mm.289248	Tceb1	Transcription elongation factor B (SIII), polypeptide 1
2.39	0.24	Mm.275158	Lsm8	LSM8 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)
2.39	0.18	Mm.195753	Pole4	Polymerase (DNA-directed), epsilon 4 (p12 subunit)
2.38	0.31	Mm.1517	Sybl1	Synaptobrevin like 1
2.37	0.07	Mm.216574	5033428A16Rik	RIKEN cDNA 5033428A16 gene
2.36	0.21	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
2.35	0.32	Mm.281011	Slk	Ste20-related kinase SMAK
2.34	0.31	Mm.159453	Rchyl	Androgen receptor N-terminal-interacting protein ARNIP
2.32	0.24	Mm.102136	Sdccag33	Serologically defined colon cancer antigen 33
2.30	0.26	Mm.170855	B230380D07Rik	MKIAA1164 protein
2.30	0.17	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle
2.29	0.26	Mm.102136	Sdccag33	Serologically defined colon cancer antigen 33
2.29	0.20	Mm.38912	2410129H14Rik	RIKEN cDNA 2410129H14 gene
2.29	0.03	Mm.1314	Mdfid	Kidney cell line derived transcript 1
2.26	0.17	Mm.25263	2700029M09Rik	PREDICTED: hypothetical protein LOC72612 [Mus musculus]
2.25	0.14	Mm.33970	Aasdhppt	Amino adipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
2.23	0.11	Mm.276381	Tnpo3	MKIAA4133 protein
2.19	0.14	Mm.23998	Ythdf2	YTH domain family 2
2.17	0.07	Mm.229141	Arfgef1	ADP-ribosylation factor guanine nucleotide-exchange factor 1(brefeldin A-inhibited)
2.15	0.09	Mm.41891	2310034L04Rik	Yip1 domain family, member 4

2.12	0.09	Mm.386773	Serpina1a	Serine (or cysteine) peptidase inhibitor, clade A, member 1a
2.06	0.05	U58494	not found	Mus musculus melanoma cell-derived intracisternal A-particle

Decreased (less than 0.5)

0.36	0.09	Mm.377112	Phxr5	Per-hexamer repeat gene 5
0.38	0.07	Mm.390	Ctla4	Cytotoxic T-lymphocyte-associated protein 4
0.42	0.02	Mm.220312	AI836376	Expressed sequence AI836376

Significant changes in the phototransduction related gene expression after 9-*cis*-retinyl acetate treatment in the eye^a.

Changes in the expression	S.D. ^b	Description ^c	Symbol	Gene name
Decreased (less than 0.5)				
0.05	0.02	Mm.2965	Rho	Rhodopsin
0.06	0.04	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.07	0.05	Mm.47709	Pdc	Phosducin
0.08	0.02	Mm.328846	Rps2	Phosphodiesterase 6A, cGMP-specific, rod, alpha
0.09	0.03	Mm.284853	Gnat1	Guanine nucleotide binding protein, alpha transducing 1
0.12	0.07	Mm.151562	Rbp3	Retinol binding protein 3, interstitial
0.13	0.04	Mm.16224	Guca1a	Guanylate cyclase activator 1a (retina)
0.14	0.05	Mm.1372	Pde6b	Phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide
0.18	0.01	Mm.235863	Rcvrn	Recoverin
0.18	0.13	Mm.290622	Pde6h	Phosphodiesterase 6H, cGMP-specific, cone, gamma
0.18	0.05	Mm.347492	Rom1	Rod outer segment membrane protein 1
0.19	0.10	Mm.274373	Rdh12	Retinol dehydrogenase 12
0.21	0.03	Mm.3918	Abca4	ATP-binding cassette, sub-family A (ABC1), member 4
0.27	0.08	Mm.291370	Rds	Retinal degeneration, slow (retinitis pigmentosa 7)
0.28	0.08	Mm.378896	Cnga1	cGMP-gated cation channel protein

Significant changes in the retinoid cycle related gene expression after 9-*cis*-retinyl acetate treatment in the eye^a.

Changes in the expression				
S.D.^b	Description^c	Symbol	Gene name	
Decreased (less than 0.5)				
0.12	Mm.151562	Rbp3	Retinol binding protein 3, interstitial	
0.17	Mm.41653	Cralbp	Cellular retinoic acid binding protein I	
0.17	Mm.41653	Rlbp1	Retinaldehyde binding protein 1	
0.18	Mm.274373	Rdh12	Retinol dehydrogenase 12	
0.19	Mm.20460	Rgr	Retinal G protein coupled receptor	
0.26	Mm.274376	Rdh10	Retinol dehydrogenase 10 (all-trans)	
0.30	Mm.279741	Rbp1	Retinol binding protein 1, cellular	
0.38	Mm.131708	Rpe65	Retinal pigment epithelium 65	
0.47	Mm.250866	Raldh1	Aldehyde dehydrogenase family 1, subfamily A1	

Significant changes function categorized enzymes related gene expression after 9-*cis*-retinyl acetate treatment in the eye^a.

Function Category	Changes in the expression	S.D.^b	Description^c	Symbol	Gene name	
apoptosis	Increased (more than 2.0)	2.63	0.17	Mm.287857	Plagl1	Lost on transformation protein 1
		2.47	0.25	Mm.298242	Lgals12	Lectin, galactose binding, soluble 12
		Decreased (less than 0.5)				
		0.19	0.04	Mm.277585	App	Amyloid beta (A4) precursor protein
		0.21	0.05	Mm.74605	Faim	Fas-apoptosis inhibitory molecule
		0.26	0.08	Mm.544	Pea15	Phosphoprotein enriched in astrocytes 15
		0.29	0.11	Mm.313076	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
		0.29	0.04	Mm.28405	Sgk	Serum/glucocorticoid regulated kinase
		0.33	0.14	Mm.133037	Egln3	EGL nine homolog 3 (C. elegans)
		0.34	0.08	Mm.43871	Trim35	Tripartite motif-containing 35
		0.34	0.11	Mm.319038	Dad1	Defender against cell death 1
		0.34	0.12	Mm.21855	Pglyrp1	Peptidoglycan recognition protein 1
		0.38	0.09	Mm.222867	Dap	Death-associated protein
immune response	Increased (more than 2.0)	2.56	0.34	Mm.261270	Ifi203	Interferon activated gene 203

2.34	0.08	Mm.142187	A230083G16Rik	RIKEN cDNA A230083G16 gene
2.22	0.17	Mm.8655	Cfh	Complement component factor h

**Decreased
(less than 0.5)**

0.29	0.11	Mm.16106	C4	Complement component 4 (within H-2S)
0.30	0.05	Mm.283217	C2	Complement component 2 (within H-2S)
0.30	0.10	Mm.830	Psme1	Proteasome (prosome, macropain) 28 subunit, alpha
0.34	0.12	Mm.21855	Pglyrp1	Peptidoglycan recognition protein 1
0.37	0.10	Mm.256925	Dbnl	Drebrin-like
0.40	0.08	Mm.2570	C1qb	Complement component 1, q subcomponent, beta polypeptide

**DNA binding protein Increased
(more than 2.0)**

4.21	0.93	Mm.320593	Dach1	DACH protein
3.37	0.79	Mm.103382	Ppfibp1	MKIAA1230 protein
3.08	0.53	Mm.42140	Zfp53	Zinc finger protein 53
3.01	0.92	Mm.195092	Zfp260	Zinc finger protein 260
2.98	0.63	Mm.137011	Tbx22	T-box 22
2.77	0.38	Mm.302938	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked
2.75	0.41	Mm.212411	Phf14	PHD finger protein 14
2.69	0.10	Mm.57223	Hells	Helicase, lymphoid specific
2.68	0.20	Mm.8062	Zic4	Zinc finger protein of the cerebellum 4
2.66	0.28	Mm.260376	4921524P20Rik	WD repeat domain 56
2.63	0.48	Mm.79760	Dach2	Dachshund 2 (Drosophila)
2.61	0.05	Mm.20000	Dhx9	DEAH (Asp-Glu-Ala-His) box polypeptide 9
2.59	0.31	Mm.276279	A830025F02Rik	Zinc finger protein 667
2.57	0.13	Mm.38249	Fem1c	MKIAA1785 protein

2.37	0.11	Mm.269995	Etv6	Ets variant gene 6 (TEL oncogene)
2.28	0.20	Mm.30466	Trps1	Trichorhinophalangeal syndrome I (human)
2.26	0.23	Mm.5011	Zfp37	Zinc finger protein 37
2.25	0.07	Mm.255890	Zic3	Zinc finger protein of the cerebellum 3
2.15	0.11	Mm.32118	2810021J22Rik	RIKEN cDNA 2810021J22 gene

**Decreased
(less than 0.5)**

0.07	0.01	Mm.275810	Rps10	Ribosomal protein S10
0.10	0.04	Mm.319660	Hmgn2	High mobility group nucleosomal binding domain 2
0.10	0.06	Mm.261676	Hist1h2bc	Histone 1, H2bc
0.12	0.04	Mm.290251	Cnbp1	Cellular nucleic acid binding protein 1
0.17	0.07	Mm.236513	Map3k12	Mitogen activated protein kinase kinase kinase 12
0.22	0.08	Mm.279861	1810060D16Rik	Polymerase (RNA) II (DNA directed) polypeptide F
0.25	0.17	Mm.279821	Eif4a1	Eukaryotic translation initiation factor 4A1
0.28	0.09	Mm.134516	Otx2	Orthodenticle homolog 2 (Drosophila)
0.28	0.07	Mm.45044	Srf	Serum response factor
0.29	0.15	Mm.221275	Rtn1	Reticulon 1, transcript variant 1
0.29	0.11	Mm.313076	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
0.30	0.08	Mm.261570	Gtf2i	Transcription factor TFII-I-alpha, complete cds, alternatively spliced
0.30	0.10	Mm.330538	Slc24a5	Solute carrier family 24, member 5
0.31	0.07	Mm.258204	Nsep1	Mus musculus similar to nuclease sensitive element binding protein 1
0.31	0.09	Mm.270278	Tef	Thyrotroph embryonic factor, transcript variant 2
0.34	0.07	Mm.15701	Trim28	Tripartite motif protein 28
0.35	0.09	Mm.335942	Set	SET translocation
0.35	0.07	Mm.289915	Ddb1	Damaged-DNA recognition protein 1
0.35	0.07	Mm.275446	Drap1	Dr1 associated protein 1 (negative cofactor 2 alpha)

0.36	0.09	Mm.235132	Zfp3611	Zinc finger protein 36, C3H type-like 1
0.36	0.05	Mm.142822	Gopc	Golgi associated PDZ and coiled-coil motif containing
0.37	0.05	Mm.215860	Ascc311	MKIAA0788 protein
0.38	0.11	Mm.3459	Dbp	D site albumin promoter binding protein
0.41	0.10	Mm.4325	Klf4	Kruppel-like factor 4 (gut)
0.41	0.07	Mm.235137	Scye1	Small inducible cytokine subfamily E, member 1
0.43	0.04	Mm.292297	Zfp110	Zinc finger protein 110
0.44	0.02	Mm.247036	Xpa	Xeroderma pigmentosum, complementation group A
0.46	0.03	Mm.258773	Zmynd11	Zinc finger, MYND domain containing 11

Nucleotic acid binding **Increased (less than 2.0)**

3.43	0.92	Mm.133101	Shprh	SNF2 histone linker PHD RING helicase
3.08	0.53	Mm.42140	Zfp53	Zinc finger protein 53
3.01	0.92	Mm.195092	Zfp260	Zinc finger protein 260
2.77	0.38	Mm.302938	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked
2.69	0.10	Mm.57223	Hells	Helicase, lymphoid specific
2.68	0.20	Mm.8062	Zic4	Zinc finger protein of the cerebellum 4
2.63	0.17	Mm.287857	Plag1	Lost on transformation protein 1
2.61	0.05	Mm.20000	Dhx9	DEAH (Asp-Glu-Ala-His) box polypeptide 9
2.59	0.31	Mm.276279	Zfp667	Zinc finger protein 667
2.56	0.20	Mm.34606	Hrb2	HIV-1 Rev binding protein 2
2.28	0.20	Mm.30466	Trps1	Trichorhinophalangeal syndrome I (human)
2.26	0.23	Mm.5011	Zfp37	Zinc finger protein 37
2.25	0.07	Mm.255890	Zic3	Zinc finger protein of the cerebellum 3
2.15	0.11	Mm.32118	2810021J22Rik	RIKEN cDNA 2810021J22 gene

Decreased

(less than 0.5)

0.12	0.04	Mm.290251	Cnbp1	Cellular nucleic acid binding protein 1
0.16	0.10	Mm.236868	Rps3	Ribosomal protein S3
0.17	0.07	Mm.236513	Map3k12	Mitogen activated protein kinase kinase kinase 12
0.22	0.06	Mm.30066	Rpl8	Ribosomal protein L8
0.22	0.04	Mm.17964	Khdrbs3	KH domain containing, RNA binding, signal transduction associated 3
0.23	0.14	Mm.126043	Bat1a	HLA-B-associated transcript 1A
0.25	0.17	Mm.279821	Eif4a1	Eukaryotic translation initiation factor 4A1
0.27	0.08	Mm.23758	Poldip3	Polymerase (DNA-directed), delta interacting protein 3
0.28	0.06	Mm.273496	Zfr	Zinc finger RNA binding protein
0.29	0.08	Mm.220038	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
0.30	0.12	Mm.155783	1300018I05Rik	RIKEN cDNA 1300018I05 gene
0.30	0.10	Mm.330538	Slc24a5	Solute carrier family 24, member 5
0.30	0.09	Mm.275413	Tdrd7	Tudor domain containing 7
0.33	0.06	Mm.155896	Hnrpa2b1	Heterogeneous nuclear ribonucleoprotein A2/B1
0.34	0.07	Mm.297196	2810055E05Rik	RIKEN cDNA 2810055E05 gene
0.35	0.07	Mm.289915	Ddb1	Damaged-DNA recognition protein 1
0.36	0.09	Mm.235132	Zfp361l	Zinc finger protein 36, C3H type-like 1
0.36	0.07	Mm.280842	Hnrpab	Heterogeneous nuclear ribonucleoprotein A/B
0.36	0.05	Mm.142822	Gopc	Golgi associated PDZ and coiled-coil motif containing
0.37	0.04	Mm.287826	Sfrs9	Splicing factor, arginine/serine rich 9
0.41	0.10	Mm.4325	Klf4	Kruppel-like factor 4 (gut)
0.41	0.04	Mm.290022	Eif4b	Eukaryotic translation initiation factor 4B
0.41	0.01	Mm.24174	Aars	Alanyl-tRNA synthetase
0.42	0.04	Mm.251255	Ddx1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1
0.43	0.04	Mm.292297	Zfp110	Zinc finger protein 110

	0.45	0.04	Mm.166524	Ddx47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47
structural					
consistent of	Decreased				
eye lens	(less than 0.5)				
	0.08	0.03	Mm.1228	Cryaa	Alpha-A-crystallin (Cryaa gene)
	0.09	0.02	Mm.22830	Cryba1	Crystallin, beta A1
	0.14	0.04	Mm.6253	Crygs	Crystallin, gamma S
	0.19	0.08	Mm.275937	Bfsp1	Beaded filament structural protein in lens-CP94
	0.19	0.12	Mm.298885	Crygb	Crystallin, gamma C
	0.21	0.07	Mm.335403	Bfsp2	Beaded filament structural protein 2, phakinin
	0.21	0.02	Mm.178	Cryab	Crystallin, alpha B
	0.28	0.07	Mm.40324	Cryba4	Crystallin, beta A4
	0.30	0.11	Mm.31625	Mip	Major intrinsic protein of eye lens fiber
	0.32	0.16	Mm.267027	Lim2	Lens intrinsic membrane protein 2
	0.36	0.04	Mm.29488	Crybb1	Crystallin, beta B1

a: RNA was isolated as described in Material and Methods. Aliquots of total RNA isolated from the different tissues were detection-labeled and hybridized on the mouse genomic microarray using a service provided by NimbleGen System Inc. (Madison, WI). The microarray contained the 37,364 genes and covered the entire mouse transcriptome as represented by the University of California, Santa Cruz database (build HG 17), using a minimum of 11 probes per gene. The expression of genes was normalized according to probe signal, and the average signal for each gene was normalized for each sample replicate.

Array data for samples across the whole study were normalized by NimbleGen Systems Inc. (Madison, WI), using the robust multichip analysis feature of the data analysis package contained in <http://www.bioconductor.org>. Project-wide spreadsheets of robust multichip analysis results were processed as described in Materials and Methods. Changes in gene expression greater than or equal to 2-fold for increases or less than

or equal to 0.5-fold for decreases were considered significant. The differentially expressed genes were then exported from Access as Excel files and were annotated using Lucidyx Searcher software (<http://www.lucidyx.com>).

b: Standard Deviation

c: UniGene Cluster ID or Gene Bank accession number was used for Gene description.