

Xu-FigureS1. All CNS shared aging feature: the decline of energy metabolism

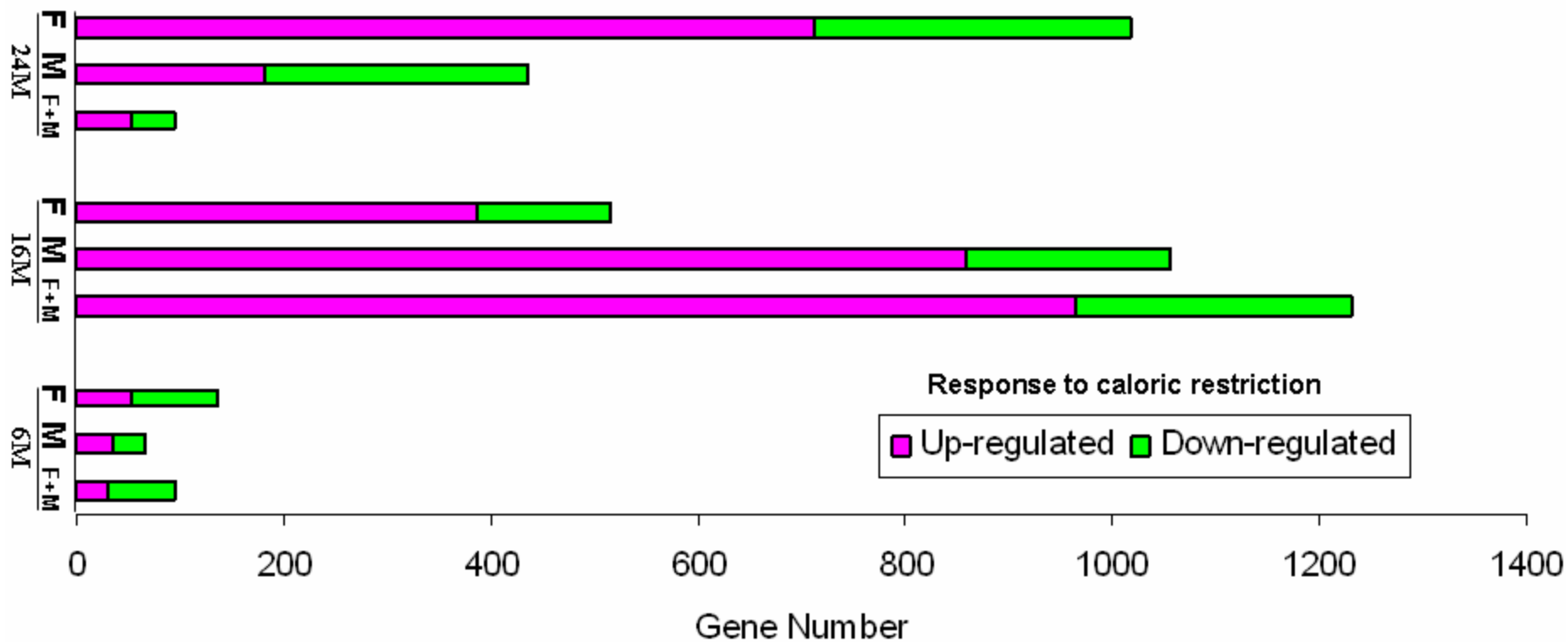
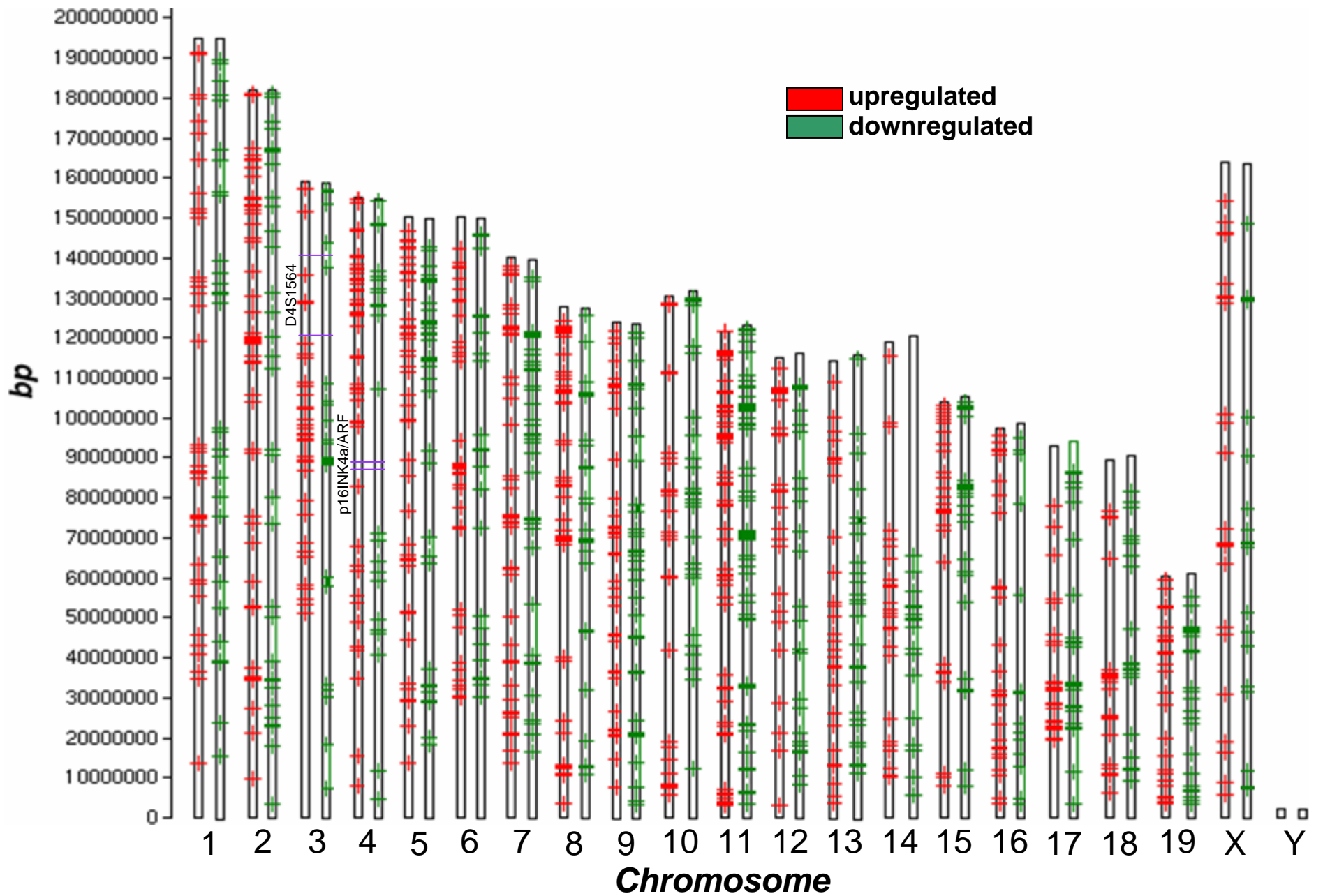
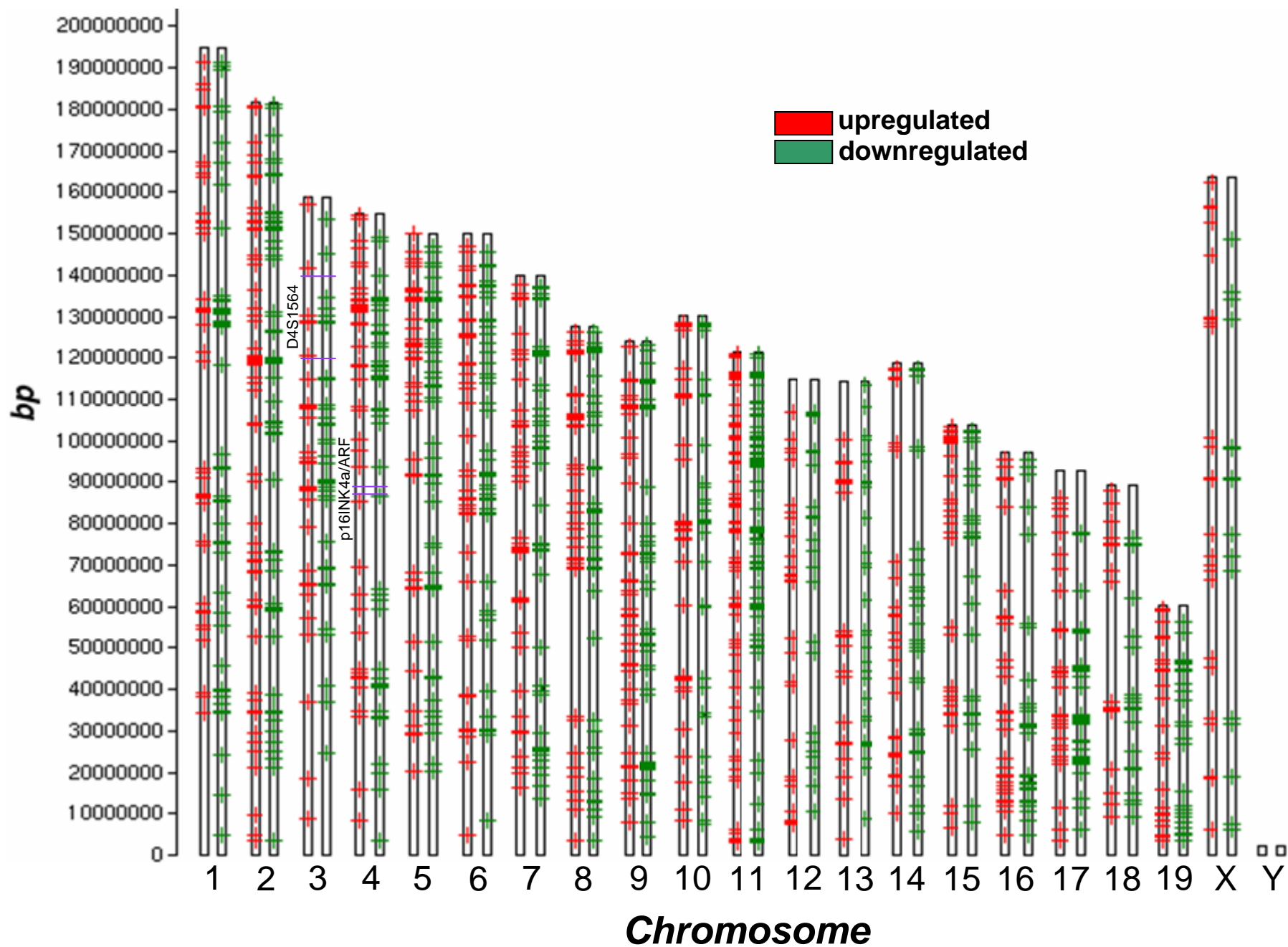


Figure S2. Age-related changes in responsiveness of the hippocampal transcriptome to CR in males and females.

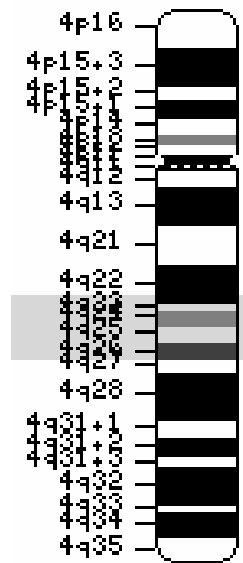


Xu-FigureS3a. Chromosome localization of CNS age-responsive genes.



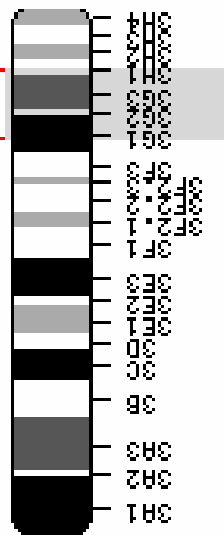
Xu-FigureS3b. Chromosome localization of CNS CR-responsive genes.

Human chr. 4

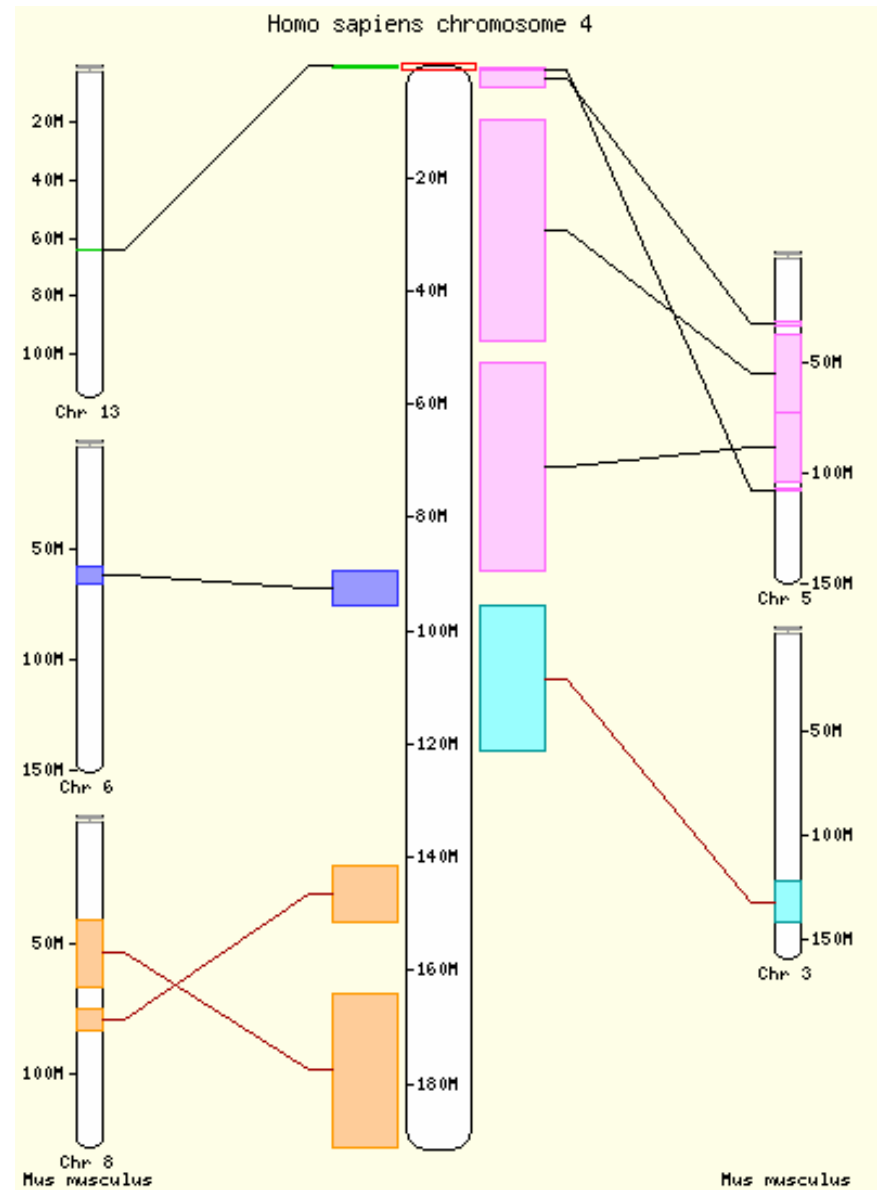


97.2-121.1M

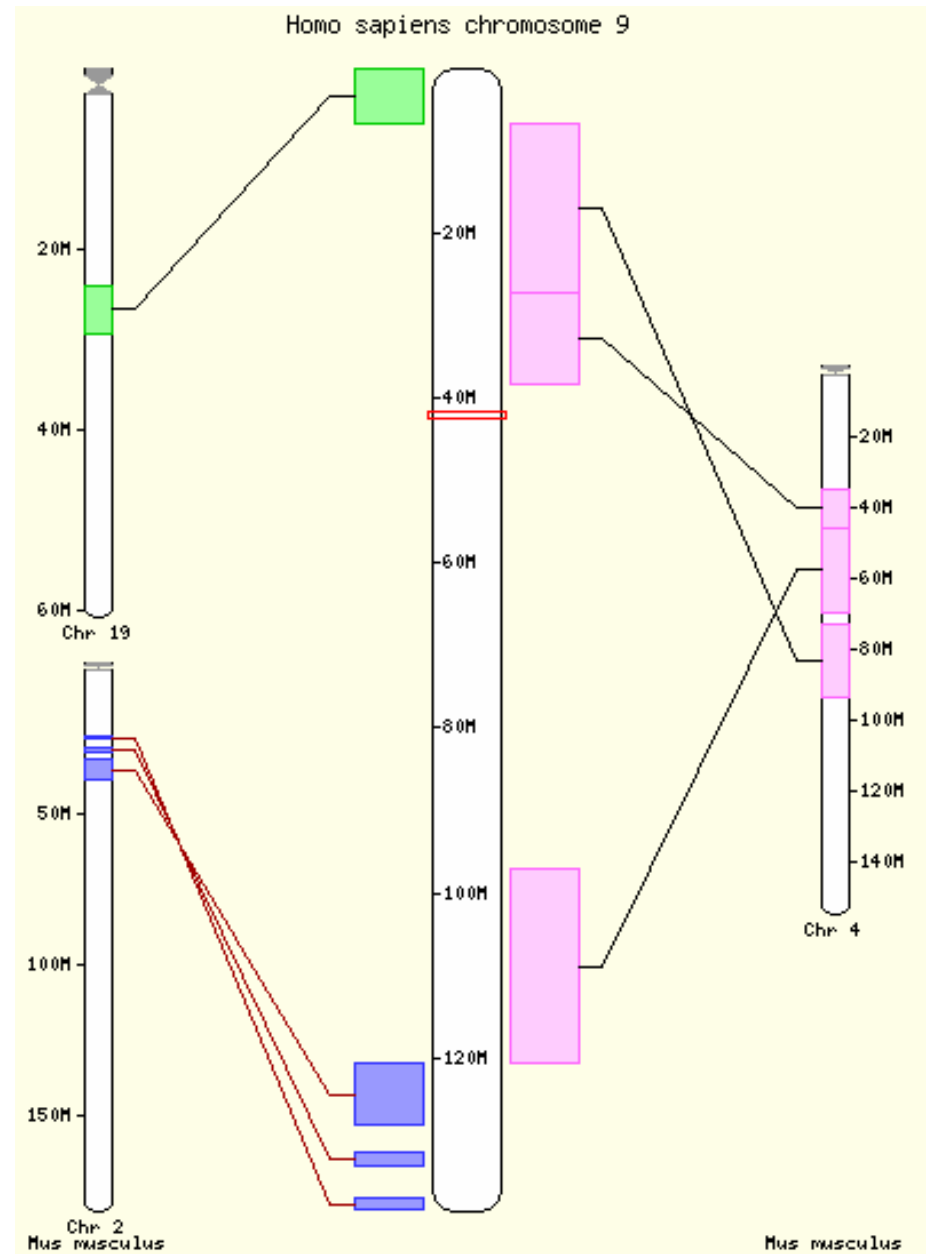
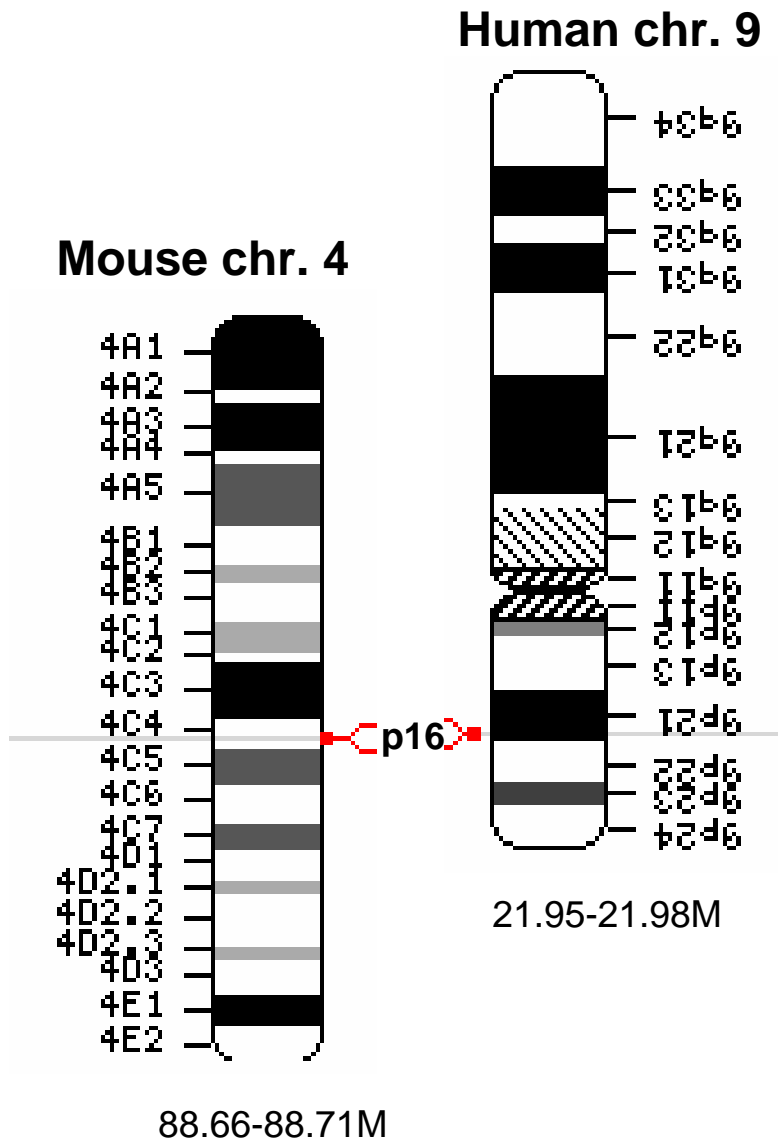
Mouse chr. 3



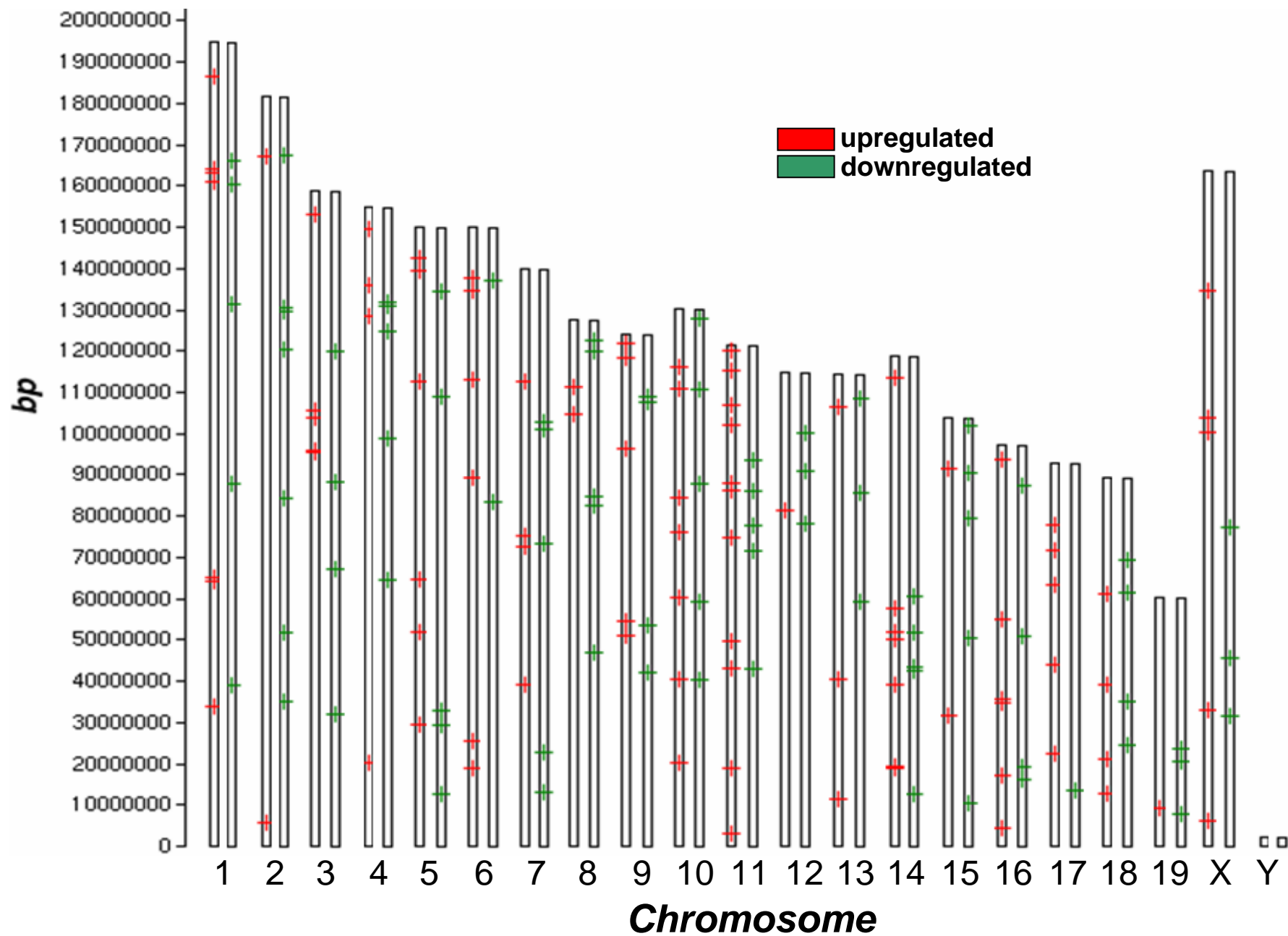
121.4-141.1M



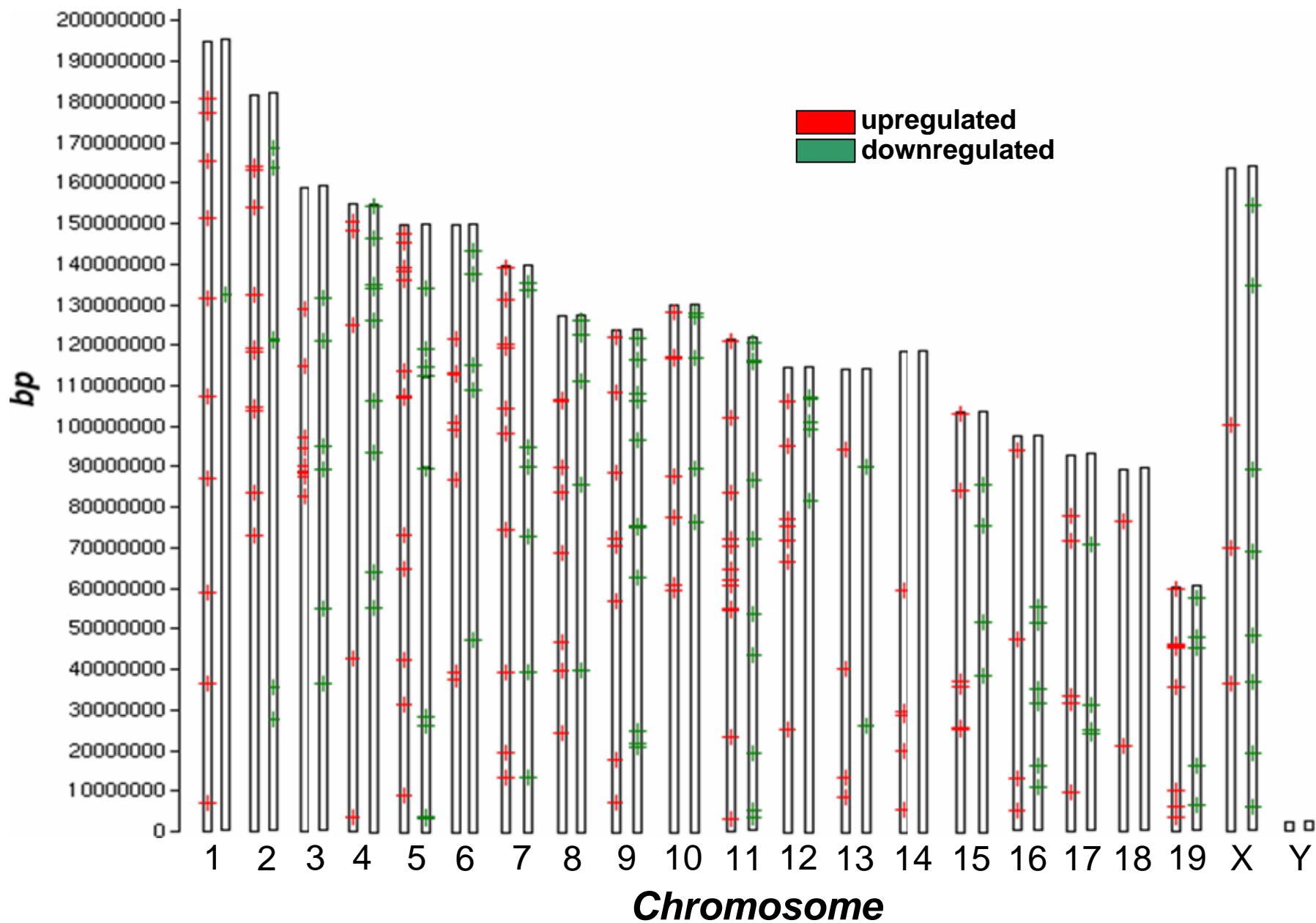
Xu-FigureS3c. Synteny map of human exceptional longevity D4S1564 locus



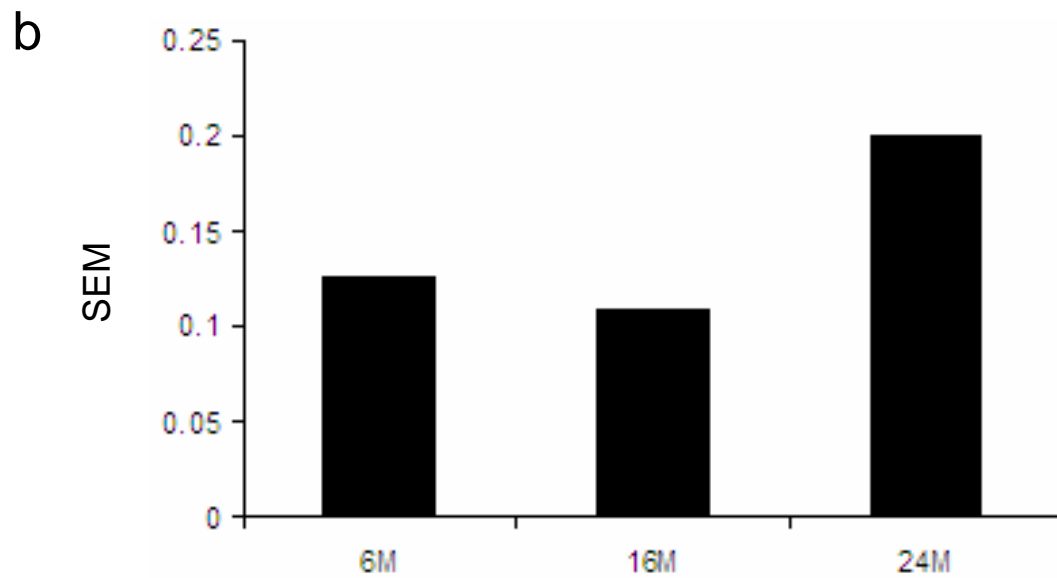
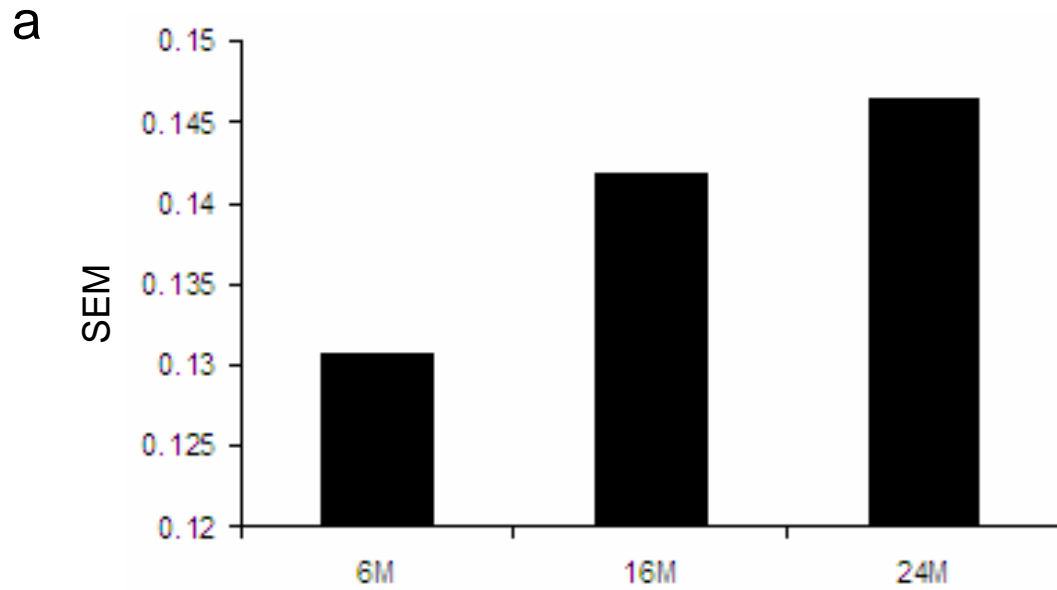
Xu-FigureS3d. Synteny map of human p16INK4a/ARF locus



Xu-FigureS3e. Chromosome localization of CNS sex influenced age-related genes.



Xu-FigureS3f. Chromosome localization of CNS sex influenced CR responsive genes.



Xu-FigureS4. Age-dependent gene expression variation analysis. a. cortex; b. striatum. SEM: standard error of the mean.

TableS6 The perturbation probability of UPS, Wnt, and WRN pathways in different sex of CNS regions during aging and in response to CR. The values with color represent the significant influence. A, ad libitum; C, Caloric restriction.

Pathways	States transition CNS regions	Male & Female				Male				Female			
		16M-24M	24M-16M	24MC-24MA	24MA-24MC	16M-24M	24M-16M	24MC-24MA	24MA-24MC	16M-24M	24M-16M	24MC-24MA	24MA-24MC
Ubiquitin-proteasome system (UPS)	Cortex	0.325	0.537	0.176	0.355	0.003	0.003	0.003	0.003	0.116	0.077	0.439	0.439
	Hippocampus	0.190	0.091	0.003	0.003	0.077	0.218	0.326	0.572	0.312	0.315	0.326	0.229
	Cerebellum	0.474	0.429	0.199	0.069	0.305	0.238	0.227	0.294	0.176	0.176	0.328	0.118
	Striatum	0.118	0.003	0.198	0.513	0.484	0.270	0.557	0.345	0.336	0.092	0.148	0.400
	Spinal cord	0.003	0.003	0.284	0.342	0.315	0.141	0.572	0.423	0.229	0.381	0.326	0.326
Wnt-β-catenin	Cortex	2.96E-06	0.028	0.004	0.011	0.003	0.122	0.135	0.252	0.208	0.121	0.249	0.155
	Hippocampus	0.001	0.238	0.044	0.008	2.96E-07	2.96E-07	0.015	2.96E-07	0.003	0.089	0.114	0.118
	Cerebellum	0.059	0.051	0.057	0.057	0.545	0.416	0.143	0.173	0.325	0.075	0.153	0.038
	Striatum	0.177	0.200	0.181	0.072	0.003	0.113	0.573	0.870	2.96E-06	0.416	0.077	0.482
	Spinal cord	0.003	0.059	0.102	0.114	0.360	0.297	0.072	2.96E-12	0.095	0.054	0.082	0.003
Werner, DNA repair & telomere plasticity	Cortex	0.013	0.004	0.012	0.008	0.027	0.009	0.027	0.003	0.029	0.004	0.026	0.003
	Hippocampus	2.96E-06	0.002	0.008	0.021	0.573	0.066	0.013	0.008	0.035	0.003	0.021	0.007
	Cerebellum	0.013	0.027	0.008	0.046	0.003	0.027	0.019	0.066	0.003	0.030	0.048	0.013
	Striatum	0.024	0.012	0.006	0.011	0.176	0.019	0.573	0.014	0.026	0.011	0.024	0.014
	Spinal cord	0.004	0.008	0.019	0.015	0.006	0.010	0.019	0.016	0.011	0.016	0.039	0.015

Overview Of DIANE 1.0

Software requirements:

DIANE 1.0 is a microarray analysis platform written in JSL (JMP Scripting language – a SAS product). It is spreadsheet based, is fast and efficient, and unlike EXCEL can accommodate very large file sizes with no decrease in processing speed. Since DIANE is written in the JSL language, it takes advantage of the computational power and visualization options found in JMP. Additionally, DIANE microarray analysis modules are free, while the basic [JMP](#) software on which DIANE is designed is inexpensive, technically well supported, and integrated with the SAS statistical package.

Modules:

DIANE has six modules and they operate in a similar manner; learning the first module aids in learning the other five. This enables the user to learn the program in a straightforward manner.

In each module one proceeds in a similar way. First the data file is opened. Then a box is provided to choose data columns to be used for calculations. A menu pops up for choices of thresholds of fold change or p-value. Having specified these choices, a click of the button operates the program. The results are appended as subsequent columns to the master file. Thus, at each stage of the analysis one file contains all the data that progressively builds the analysis.

DIANE can read data in a variety of options principally through text files or Excel sheets. The output can also be as Excel worksheets amongst a variety of choices.

Module 1: **Data Normalization**

DIANE provides a menu of options to normalize with such as Z-normalization, log-median normalization, log transforms etc. Also it is convenient to add any user specified normalization.

Module 2: **Principal component analysis**

This module facilitates clustering at the level of whole arrays while identifying arrays that are to be deemed outliers. PCA can be performed in 2 dimensions as well as in 3-dimensions. The user has the option of examining the clustering in a live rotating view. Output of .jpg images is provided as which can be used for publication.

Module 3: **Generating Gene Lists**

Finds genes differentially expressed between treatment and control groups both through Z-difference formalism and ANOVA methods. As output, one receives gene lists in Excel for each comparison. Additionally, a summary sheet examines each gene for the number of distinct treatments in which it is over or under expressed. This often forms the first step in an investigator's study of one's experimental set up for it provides a comparative glance at the behavior of a gene over various treatment control pairs.

Module 4: **Standard Gene Clustering , N-Tuple Clustering**

This module clusters genes, which are differentially expressed, via traditional schemes such as k-means clustering or hierarchical clustering. Additionally it provides options to explore new clustering methods such as binary clustering or N-tuple clustering.

Here again, one can produce cell plots for hierarchical clustering or line plot diagrams for k-means clustering which can be made parts of manuscripts without further processing.

Module 5 : **Grouping by Gene Ontology (GO) categories**

Having determined a list of differentially expressed genes between treatments, the investigator is at pains to determine their distribution into biologically relevant groups such as GO functional categories, GO molecular or cellular functions , GO Biological functions or any other user determined categories. Upon specifying the functional categories of interest, DIANE produces pie charts depicting percentage distribution of genes into categories of interest. The pie chart mode can be converted to other graphical depictions that are suitable to the investigator. Efforts are underway to link clusters of Module 4 and pie charts of this module.

Module 6 : **Web connection to gene identifiers such as GenBank, Entrez.**

Module 3 generates lists of genes in several formats in successive columns. Typically they are gene names, identifiers from recognized databases such as GenBank , Entrez , Locuslink, Unigene etc. JMP enables opening relevant web pages corresponding to the Identifiers. The user can obtain annotations and published data relevant to the genes in module 3.

Module 7 : **PAGE: parametric analysis of gene set enrichment**¹

This module tests for the enrichment of groups of genes between two treatments and identifies functional groups that are significantly enhanced. This facilitates a

departure from conventional microarray analysis focused on movement of individual genes and enables the user to explore functional groups of genes.

Reference

1. Kim SY, Volsky DJ. PAGE: parametric analysis of gene set enrichment. BMC Bioinformatics. 6:144 (2005).

Online Supplement PP

As summarized in Figure PP1 below, the proposed algorithm includes three major components: coefficient of determination (CoD) Validation, Model Construction, and Intervention Analysis. The inputs to our algorithm are the experimental specific regulatory network and the genes involved in the network. The outputs are estimated probabilities that a network transit from one state to another in response to each internal intervention or external perturbation.

Prior to the mathematical simulation, the regulatory network was validated by the coefficient of determination (CoD) to ensure the context specificity to the gene expression profile under examination. CoD is mathematically defined as $\theta_{opt} = \frac{\varepsilon_0 - \varepsilon_{opt}}{\varepsilon_0}$ where ε_0 is the prediction error in the absence of predictor and ε_{opt} is the error for the optimal predictors. The larger the CoD value, the better the fit of the context specificity of a network topology to expression profiles. Real-value gene expression data were converted to the ternary presentation to ensure a high and uniform certainty in specifying genes undergoing significant transcriptional changes across experiments. The computational model we constructed contains n selected genes. Each gene has a ternary expression value, which is assigned as either over-expressed $\{1\}$, equivalently-expressed $\{0\}$, or under-expressed $\{-1\}$. The model allows any number of predictor genes for each target gene based on the topology of the network. For capturing the dynamics of the network, we used the state of predictor genes at step t and the corresponding conditional probabilities, which are estimated from observed data, to derive the state of target gene at step $t + 1$, as characterized by equation 1..

$$g_l^{(t+1)} = \begin{cases} -1 : \text{with } C_l^{-1}(g_{i_1}^{(t)} g_{i_2}^{(t)} \dots g_{i_k}^{(t)}) = p(g_l^{(t+1)} = -1 | g_{i_1}^{(t)} g_{i_2}^{(t)} \dots g_{i_k}^{(t)}) \\ 0 : \text{with } C_l^0(g_{i_1}^{(t)} g_{i_2}^{(t)} \dots g_{i_k}^{(t)}) = p(g_l^{(t+1)} = 0 | g_{i_1}^{(t)} g_{i_2}^{(t)} \dots g_{i_k}^{(t)}) \\ 1 : \text{with } C_l^1(g_{i_1}^{(t)} g_{i_2}^{(t)} \dots g_{i_k}^{(t)}) = p(g_l^{(t+1)} = 1 | g_{i_1}^{(t)} g_{i_2}^{(t)} \dots g_{i_k}^{(t)}) \end{cases} \quad (1)$$

The transition between gene states can be represented as a Markov chain. Considering gene perturbation, the transition probability can be formulated by equation 2.

$$\Pr\{S^{(t)} \rightarrow S^{(t+1)}\} = \left(\prod_{l=1}^n C_l^{g_l^{(t+1)}} \right) \times (1-p)^n + p^{n_0} (1-p)^{n-n_0} p_0^{n_0} \times 1_{[S^{(t)} \neq S^{(t+1)}]} \quad (2)$$

where $S^{(t)} = (g_1^{(t)} g_2^{(t)} \dots g_n^{(t)})$. Based on the transition matrix of the model, we constructed the intervention information matrix \mathbf{H} in which the element is defined as

$$H_K(x, y) = \sum_{k=1}^K F_k(x, y), \quad F_k(x, y) \text{ can be computed recursively as}$$

$$F_k(x, y) = \sum_{z \in [-1, 0, 1]^n - \{y\}} A(x, z) F_{k-1}(z, y). \text{ Each element } A(x, y) \text{ of the transition matrix } \mathbf{A} \text{ can}$$

be computed using equation 2. Each column in \mathbf{H} represents the probability that the network, starting in all possible intervened states, will visit to a given target state y . Using the intervention information matrix \mathbf{H} , we can find the best candidate genes with which of the genes in network should we intervene genes by multiple simultaneous flipping their status so that the probability that the network transit from an initial state to an target state is greatest. For simulating simple stimulus, we intervened mathematically one gene, two genes, and three genes each time and kept the rest genes unchanged for an initial state.

An advantage of computational and mathematical modeling of cellular system is the capability to simulate the *in silico* system to predict a cellular system's behavior under conditions that might not be easy to impose on a target system. The conditions may include those not existing in natural environments, but have potential clinical implications such as mutation of a gene. Such predictions could provide a new hypothesis that might be validated via independent biological experiments.

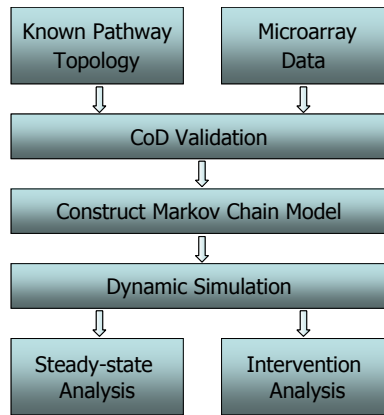


Figure PP1

Reference

Li, H. and Zhan, M. (2005) Systematic intervention of transcription for identifying network response to disease and cellular phenotypes. *Bioinformatics* in press.

Gene-specific primers used for Real-Time PCR Analyses

1. Heat shock protein 1, alpha

Forward: aagccgattggacgagaaa;

Reverse: agaagggcccgaattctaa

2. HIF-1 alpha

Forward: caagtcagcaacgtggaagg;

Reverse: gggttcacaatcagcacca

3. Werner syndrome homolog

Forward: ccttccagtgccaacctc;

Reverse: aggcaggagcctgttctcag

4. Jagged 1

Forward: gggagcagctgaaccaaac;

Reverse: gtttgcaaagcggactttc

5. ELOVL family member 6, elongation of long chain fatty acids

Forward: gatgaccaaaggcctgaagc;

Reverse: gtggtgtaccagtgcagga

6. Nemo like kinase

Forward: ctggtggcacaccatcact;

Reverse: cctgcaaagcaggtgaacag

7. Glyceraldehyde-3-phosphate dehydrogenase

Forward primers: cctgcgacttcaacagcaac;

Reverse primers: ctcttgaggccatgtagg

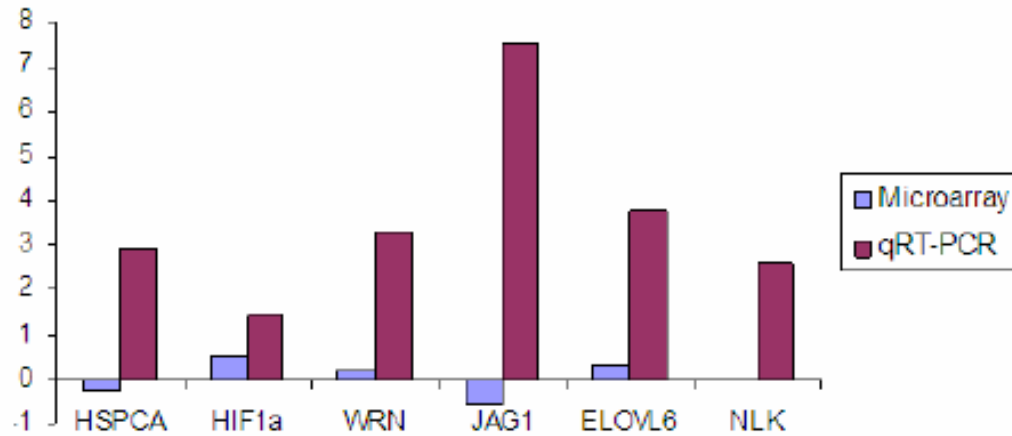
8. Hypoxanthine guanine phosphoribosyl transferase 1

Forward primers: tgccgaggatttgaaaaag;

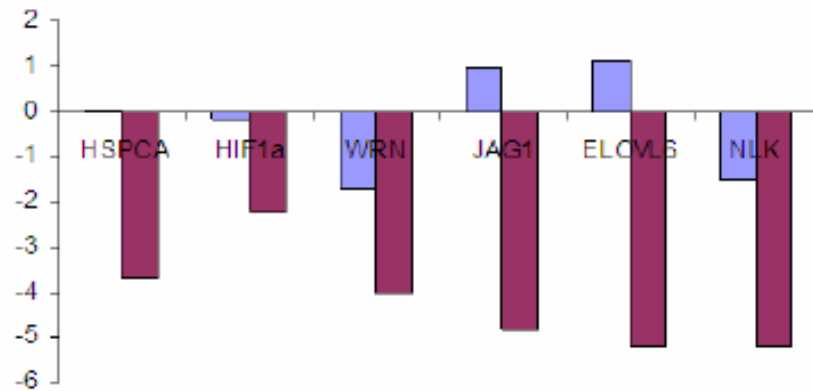
Reverse primers: tccagcaggtcagcaaagaa

Xu-SRTPCR. Microarray quality validation (ratio change of age/CR responsiveness) by Real-time PCR.

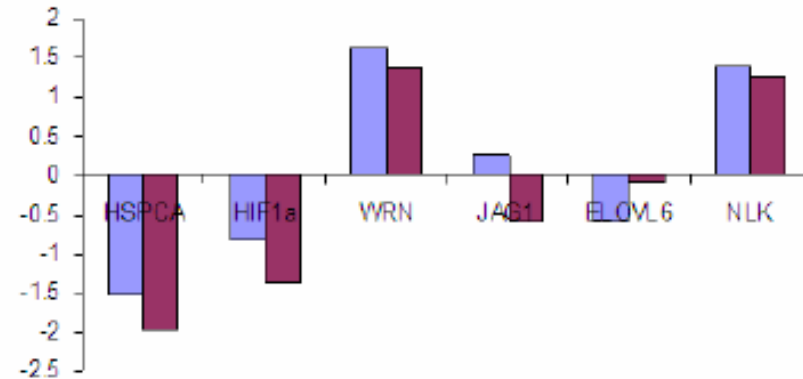
cortex 16M-AL/6M-AL



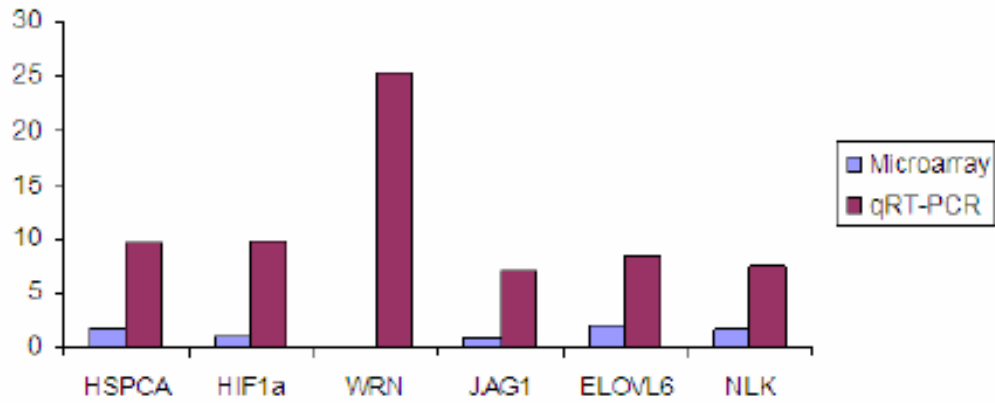
Cortex 24M-AL/16M-AL



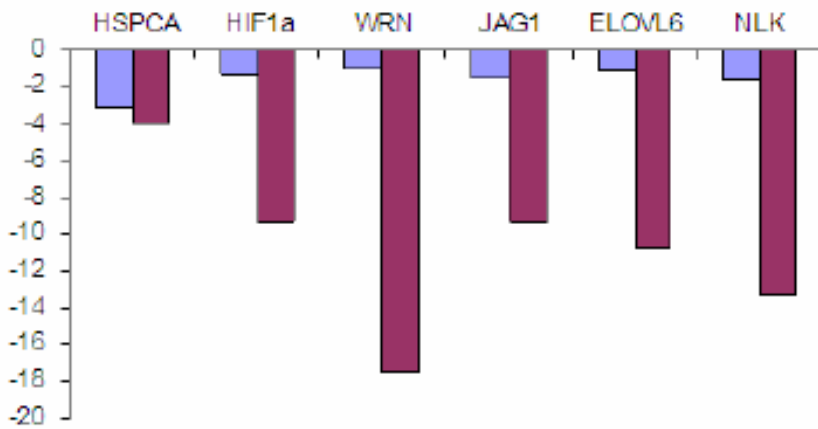
cortex 24M-CR/24M-AL



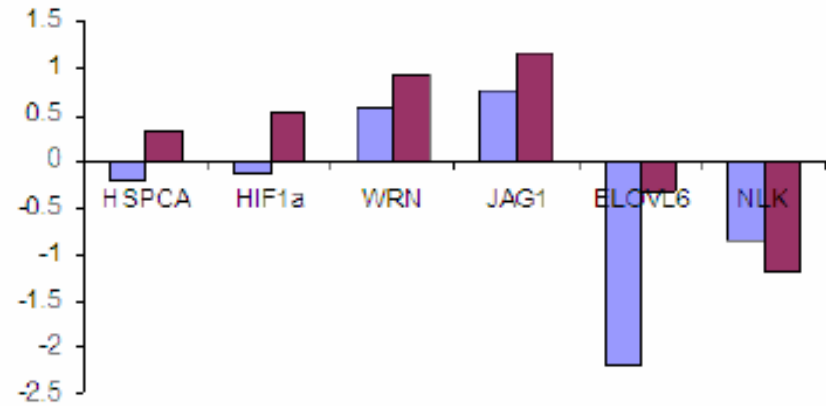
Hippocampus 16M-AL/6M-AL



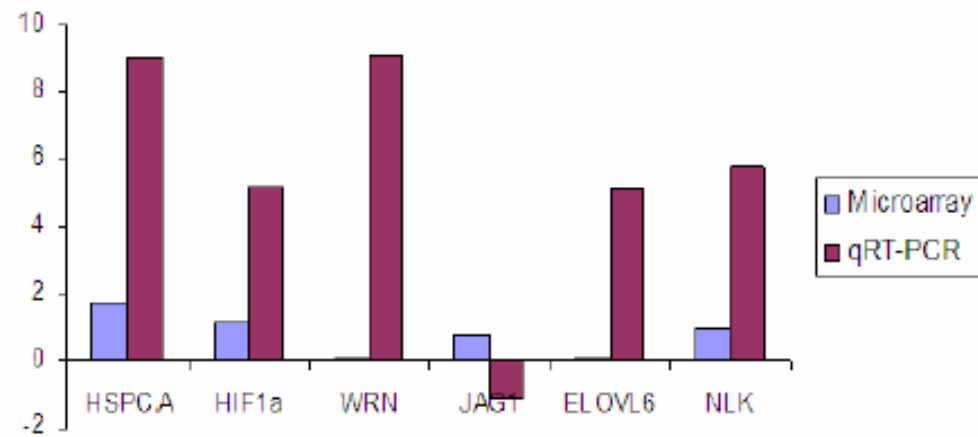
Hippocampus 24M-AL/16M-AL



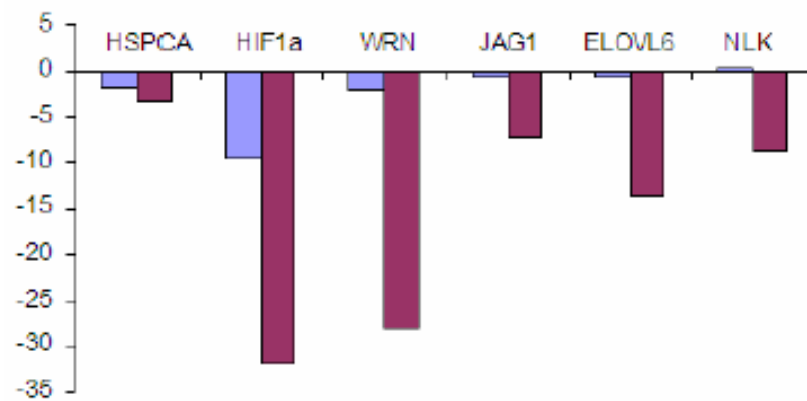
Hippocampus 24M-CR/24M-AL



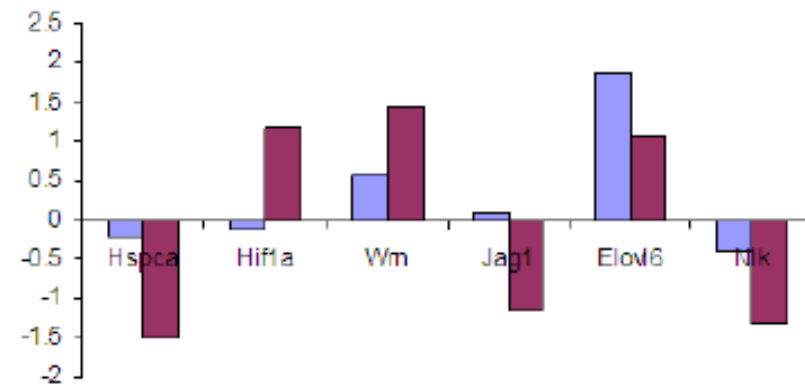
Spinal cord 16M-AL/6M-AL



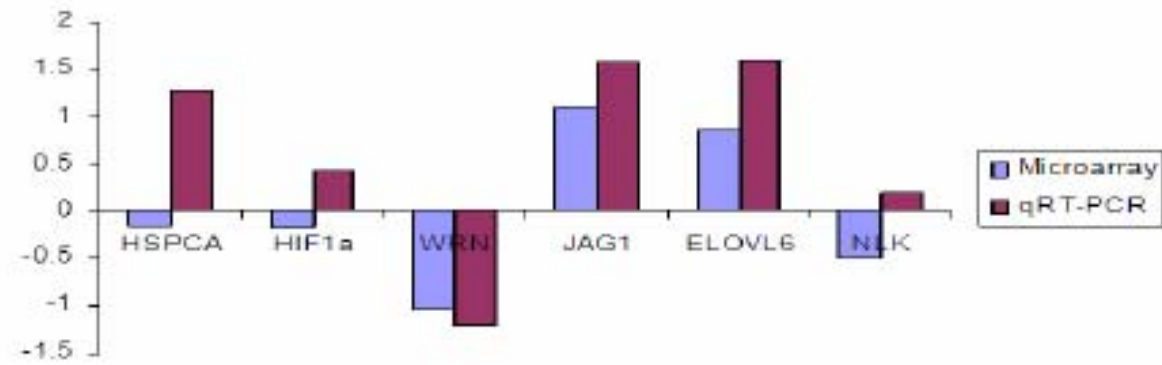
Spinal cord 24M-AL/16M-AL



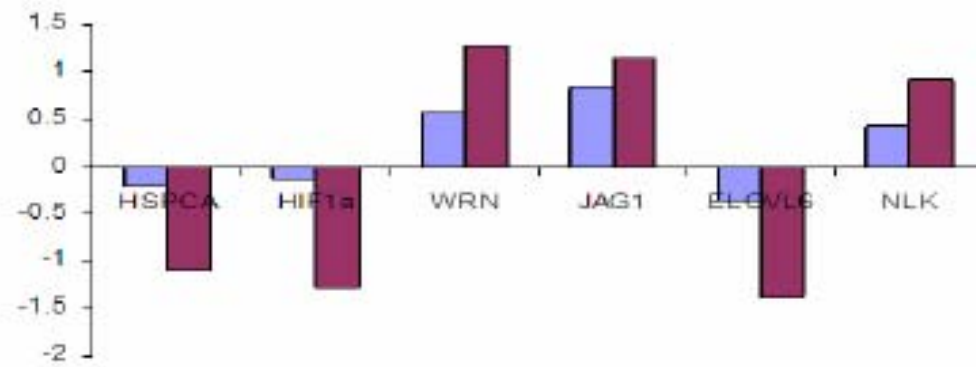
Spinal cord 24M-CR/24M-AL



Striatum 24M-AL/16M-AL



Striatum 24M-CR/24M-AL



TableS2aP2. Gene lists of mouse CNS age-related gene expression pattern 2

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.

	down-regulated
	up-regulated
	no change

Acc	Cor-p2	Hip-p2	Cer-p2	Str-p2	SC-p2	Symbol	Name
BG064774						Hsp90aa1	Heat shock protein 90kDa alpha (cytosolic), class A member 1
AU041102						Cobl	Cordon-bleu
BG066541						Pbx3	Pre B-cell leukemia transcription factor 3
BG084595						Wrn	Werner syndrome homolog (human)
BG071648						EST	
C78835						Actb	Actin, beta, cytoplasmic
BG084543						Atrx	Alpha thalassemia/mental retardation syndrome X-linked homolog (human)
BG067933						Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BG073636						Psme1	Proteasome (prosome, macropain) 28 subunit, alpha
BG073467						Hba-a1	Hemoglobin alpha, adult chain 1
BG069786						Ywhab	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
BG065074						Ahr	Aryl-hydrocarbon receptor
BG065476						AK190093	CDNA sequence AK190093
BG064663						Anapc7	Anaphase promoting complex subunit 7
BG078146						Arbp	Acidic ribosomal phosphoprotein P0
BG069704						Isg20l1	Interferon stimulated exonuclease gene 20-like 1
BG064797						Ldha	Lactate dehydrogenase A
BG065197						Rpl5	Ribosomal protein L5
BG078477						Sec13	SEC13 homolog (S. cerevisiae)
BG064838						Tuba2	Tubulin, alpha 2
BG064785						EST	
BG064873						1700109G14Rik	RIKEN cDNA 1700109G14 gene
BG067563						Npc1	Niemann Pick type C1
BG067944						Plac1l	Placenta-specific 1-like
BG073224						Ube2q1	Ubiquitin-conjugating enzyme E2Q (putative) 1

BG066934				Kalrn	Kalirin, RhoGEF kinase
BG064687				EST	Transcribed locus
BG066539				Cyp2s1	Cytochrome P450, family 2, subfamily s, polypeptide 1
BG072056				Cenpa	Centromere protein A
BG072073				Ift122	Intraflagellar transport 122 homolog (Chlamydomonas)
BQ552294				Stxbp6	Syntaxin binding protein 6 (amisyn)
AU046176				EST	
BG064846				Cdc2a	Cell division cycle 2 homolog A (S. pombe)
BG064823				Pgam1	Phosphoglycerate mutase 1
AW545415				EST	
BG086444				AU020772	Expressed sequence AU020772
BG063277				Peg10	Paternally expressed 10
BG078138				Rrm2	Ribonucleotide reductase M2
BG063564				2700094F01Rik	RIKEN cDNA 2700094F01 gene
BG066503				Tmem23	Transmembrane protein 23
C76424				Lhfp12	Lipoma HMGIC fusion partner-like 2
C76309				1110012J17Rik	RIKEN cDNA 1110012J17 gene
BG068814				AU023871	Expressed sequence AU023871
BG068466				C130039O16Rik	RIKEN cDNA C130039O16 gene
BG069669				Cep27	Centrosomal protein 27
BG073998				Hcfc1	Host cell factor C1
BG078898				Lgtn	Ligatin
BG086177				Rpl3	Ribosomal protein L3
BG079508				Tbl1x	Transducin (beta)-like 1 X-linked
BQ550996				Ywhaq	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
BG064441				EST	
BG066124				EST	
BG066361				EST	
BG066591				EST	
BG068694				EST	
BG069622				EST	
BG076161				2410166I05Rik	RIKEN cDNA 2410166I05 gene
BG072788				Atrn	Attractin
AW555585				Cct4	Chaperonin subunit 4 (delta)
BG076204				Clybl	Citrate lyase beta like
AW558347				EST	

BG073690			EST	
BG063524			Slc20a2	Solute carrier family 20, member 2
BG082524			Elovl6	ELOVL family member 6, elongation of long chain fatty acids (yeast)
BG070896			Jam2	Junction adhesion molecule 2
BG083613			Usp1	Ubiquitin specific peptdiase 1
BG086349			Rnf11	Ring finger protein 11
BG070195			EST	
BG075822			Cdc9111	CDC91 cell division cycle 91-like 1 (<i>S. cerevisiae</i>)
BG071450			1110008J03Rik	RIKEN cDNA 1110008J03 gene
BG074675			2010301N04Rik	RIKEN cDNA 2010301N04 gene
BG083629			2210010A19Rik	RIKEN cDNA 2210010A19 gene
BG066198			2410016F19Rik	RIKEN cDNA 2410016F19 gene
BG070676			2600011C06Rik	RIKEN cDNA 2600011C06 gene
BG071364			2900056M20Rik	RIKEN cDNA 2900056M20 gene
BG070799			4631416L12Rik	RIKEN cDNA 4631416L12 gene
BG069528			5730405I09Rik	RIKEN cDNA 5730405I09 gene
BG063015			9430023L20Rik	RIKEN cDNA 9430023L20 gene
AA409025			Ankrd15	Ankyrin repeat domain 15
BG069506			Arhgef7	Rho guanine nucleotide exchange factor (GEF7)
BG077733			Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
BG071370			AU040096	Expressed sequence AU040096
BG072043			AU046084	Expressed sequence AU046084
BG066690			Aurkaip1	Aurora kinase A interacting protein 1
BG070219			Bat2d	BAT2 domain containing 1
BG070779			Bbs2	Bardet-Biedl syndrome 2 homolog (human)
BG064920			Bex1	Brain expressed gene 1
BG079566			Btrc	Beta-transducin repeat containing protein
BG071392			C530043G21Rik	RIKEN cDNA C530043G21 gene
BG066572			Cables1	Cdk5 and Abl enzyme substrate 1
BG070322			Cacng5	Calcium channel, voltage-dependent, gamma subunit 5
BG079870			Caml	Calcium modulating ligand
BQ551014			Cast	Calpastatin
BG072084			Cc2d1b	Coiled-coil and C2 domain containing 1B
AU023920			Ccnc	Cyclin C
BG083482			Chek2	CHK2 checkpoint homolog (<i>S. pombe</i>)
BG066703			Clta	Clathrin, light polypeptide (Lca)
BG080972			Crygb	Crystallin, gamma B

BG075303	Cryz1	Crystallin, zeta (quinone reductase)-like 1
BG085494	Cul3	Cullin 3
BQ550937	Cyld	Cylindromatosis (turban tumor syndrome)
BG071352	D18Ert653e	DNA segment, Chr 18, ERATO Doi 653, expressed
BG066589	Dmd	Dystrophin, muscular dystrophy
BG070734	Dock1	Dedicator of cyto-kinesis 1
BG073773	Eef1a1	Eukaryotic translation elongation factor 1 alpha 1
BG070642	Eef2k	Eukaryotic elongation factor-2 kinase
BG071626	EG382450	Predicted gene, EG382450
BG071349	EG666469	Predicted gene, EG666469
BG070901	Eif1a	Eukaryotic translation initiation factor 1A
BG066159	Eif2s2	Eukaryotic translation initiation factor 2, subunit 2 (beta)
BG084974	Fbxo22	F-box protein 22
BG065805	Gabrb1	Gamma-aminobutyric acid (GABA-A) receptor, subunit beta 1
BG066634	Galnt4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4
BG072044	Garn1	GTPase activating RANGAP domain-like 1
BG074653	Gpld1	Glycosylphosphatidylinositol specific phospholipase D1
BG070639	Grb2	Growth factor receptor bound protein 2
BG070643	Hdac2	Histone deacetylase 2
BG076765	Hnrpc	Heterogeneous nuclear ribonucleoprotein C
BG074640	Il10ra	Interleukin 10 receptor, alpha
BQ550324	Il17re	Interleukin 17 receptor E
BG070889	Ilf3	Interleukin enhancer binding factor 3
BG069589	Kcnk6	Potassium inwardly-rectifying channel, subfamily K, member 6
BG080027	Kras	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
BG066483	Lrp2	Low density lipoprotein receptor-related protein 2
BG074685	Lrp2	Low density lipoprotein receptor-related protein 2
BG069144	Lrrprc	Leucine-rich PPR-motif containing
BG072364	Lrrc7	Leucine rich repeat containing 7
BG082602	Mal2	Mal, T-cell differentiation protein 2
BG072383	Mark3	MAP/microtubule affinity-regulating kinase 3
BG087841	Mastl	Microtubule associated serine/threonine kinase-like
BG084276	Mbnl1	Muscleblind-like 1 (Drosophila)
BG070800	Mdh2	Malate dehydrogenase 2, NAD (mitochondrial)
BG074650	Mlstd2	Male sterility domain containing 2
BG086082	Mtmr12	Vmyotubularin related protein 12
	Ncapd2	Non-SMC condensin I complex, subunit D2

BQ551032	Ndor1	NADPH dependent diflavin oxidoreductase 1
BG084240	Ndufs7	NADH dehydrogenase (ubiquinone) Fe-S protein 7
BG071315	Nipbl	Nipped-B homolog (Drosophila)
BG083972	Nol10	Nucleolar protein 10
BG066700	Nol7	Nucleolar protein 7
BG072053	Nr2e1	Nuclear receptor subfamily 2, group E, member 1
BG071353	Papola	Poly (A) polymerase alpha
BG070255	Pde7a	Phosphodiesterase 7A
BG070766	Pdxk	Pyridoxal (pyridoxine, vitamin B6) kinase
BG081585	Pigf	Phosphatidylinositol glycan anchor biosynthesis, class F
BG065677	Pik3r3	Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55)
BG084805	Pik4cb	Phosphatidylinositol 4-kinase, catalytic, beta polypeptide
BQ550997	Poldip3	Polymerase (DNA-directed), delta interacting protein 3
BG083644	Por	P450 (cytochrome) oxidoreductase
BG071336	Prkab1	Protein kinase, AMP-activated, beta 1 non-catalytic subunit
BQ550366	Prkar2a	Protein kinase, cAMP dependent regulatory, type II alpha
BG065633	Psmb2	Proteasome (prosome, macropain) subunit, beta type 2
BG071685	Ptdss1	Phosphatidylserine synthase 1
BG072681	Ptges3	Prostaglandin E synthase 3 (cytosolic)
BG072113	Ptk2	PTK2 protein tyrosine kinase 2
BG072031	Pts	6-pyruvoyl-tetrahydropterin synthase
BG071362	Pycard	PYD and CARD domain containing
BQ551650	Rab10	RAB10, member RAS oncogene family
BG070713	Rab30	RAB30, member RAS oncogene family
BG066577	Rbm6	RNA binding motif protein 6
AU040781	Rbx1	Ring-box 1
AU041357	Rhod	Ras homolog gene family, member D
BG066735	RP23-248K2.4	Hepatitis A virus cellular receptor 1-like
BQ550634	Scn3a	Sodium channel, voltage-gated, type III, alpha
BQ551887	Slc9a6	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 6
BQ550611	Smad2	MAD homolog 2 (Drosophila)
BQ550540	Spn	Sialoporphin
BG065620	Ss18	Synovial sarcoma translocation, Chromosome 18
BG078928	Stmn3	Stathmin-like 3
BG073342	Suhw4	Suppressor of hairy wing homolog 4 (Drosophila)
BG071689	Tbc1d15	TBC1 domain family, member 15
BG065608	Tbl2	Transducin (beta)-like 2

C77948		Tera	Teratocarcinoma expressed, serine rich
BG086091		Terf1	Telomeric repeat binding factor 1
BG084491		Tjp2	Tight junction protein 2
BG073058		Tle1	Transducin-like enhancer of split 1, homolog of Drosophila E(spl)
BG087296		Tmem50b	Transmembrane protein 50B
BG071346		Trim34	Tripartite motif protein 34
BG065689		Ube2l3	Ubiquitin-conjugating enzyme E2L 3
BQ550339		Ube3a	Ubiquitin protein ligase E3A
BG079790		Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
BQ551652		Zc3h7a	Zinc finger CCCH type containing 7 A
AU046252		Zfp69	Zinc finger protein 69
AA409525		EST	
AU015835		EST	
AU040991		EST	
AU041361		EST	
AU044194		EST	Transcribed locus
BG063085		EST	
BG063918		EST	
BG064292		EST	
BG065632		EST	
BG065948		EST	
BG066530		EST	
BG066588		EST	
BG066724		EST	Transcribed locus
BG067815		EST	
BG067967		EST	
BG068086		EST	
BG068435		EST	
BG068468		EST	
BG069132		EST	
BG070244		EST	
BG070564		EST	
BG070632		EST	
BG070663		EST	
BG070691		EST	
BG070879		EST	Transcribed locus
BG070913		EST	

BG070969	EST	
BG070970	EST	
BG070980	EST	Transcribed locus, weakly similar to XP_001078904.1 similar to zinc finger protein 146 [Rattus norvegicus]
BG071361	EST	
BG071377	EST	Transcribed locus
BG071455	EST	
BG071603	EST	
BG071676	EST	
BG072094	EST	
BG072465	EST	
BG073061	EST	
BG073336	EST	
BG073377	EST	
BG073379	EST	
BG075627	EST	
BG079860	EST	
BG083198	EST	
BG083661	EST	
BG084196	EST	
BG084207	EST	
BQ550386	EST	CDNA clone IMAGE:5686051
BQ550972	EST	
BQ551030	EST	
BQ551690	EST	
BQ551862	EST	
BQ552292	EST	
C76835	EST	
BG070986	Oaz2	Ornithine decarboxylase antizyme 2
AW555133	2310028N02Rik	RIKEN cDNA 2310028N02 gene
BG076408	2610206B13Rik	RIKEN cDNA 2610206B13 gene
BG076134	9330120H11Rik	RIKEN cDNA 9330120H11 gene
BG066610	9330158F14Rik	RIKEN cDNA 9330158F14 gene
BG076127	A330009N23Rik	RIKEN cDNA A330009N23 gene
BG073838	AA536749	Expressed sequence AA536749
BG088940	Aqr	Aquarius
BG088097	Arhgap28	Rho GTPase activating protein 28

BG073860	Armcx1	Armadillo repeat containing, X-linked 1
BG064530	BC017647	CDNA sequence BC017647
BG076130	BC063749	CDNA sequence BC063749
BG076373	Ccl27	Chemokine (C-C motif) ligand 27
BG076493	Cdc42bpa	Cdc42 binding protein kinase alpha
BG088953	Col4a1	Procollagen, type IV, alpha 1
BG076180	Col5a2	Procollagen, type V, alpha 2
BG088391	Cryl1	Crystallin, lambda 1
BG076153	Dusp7	Dual specificity phosphatase 7
BG085728	Eftud2	Elongation factor Tu GTP binding domain containing 2
BG088888	Elmo2	Engulfment and cell motility 2, ced-12 homolog (C. elegans)
BG072273	Eps15	Epidermal growth factor receptor pathway substrate 15
BG074120	Fbxo42	F-box protein 42
BG088675	Fcmd	Fukuyama type congenital muscular dystrophy homolog (human)
BG088903	Fez1	Fasciculation and elongation protein zeta 1 (zygin I) UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1
BG076167	Galnt1	
BG087642	Glo1	Glyoxalase 1
BG087174	Gmppa	GDP-mannose pyrophosphorylase A
BG085643	Hba-x	Hemoglobin X, alpha-like embryonic chain in Hba complex
BG088567	Igfbp3	Insulin-like growth factor binding protein 3
AW555640	Immt	Inner membrane protein, mitochondrial
BQ550178	Ipp	IAP promoted placental gene
BG076207	Jmjd1c	Jumonji domain containing 1C
AW559127	Kcnq1	Potassium voltage-gated channel, subfamily Q, member 1
BG076407	Marveld2	MARVEL (membrane-associating) domain containing 2
BG088908	Mid1ip1	Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish))
BG076156	Mtx1	Metaxin 1
BG076894	Mybbp1a	MYB binding protein (P160) 1a
AW551875	Nfu1	NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae)
BG076133	Nme6	Expressed in non-metastatic cells 6, protein
BG064006	Nono	Non-POU-domain-containing, octamer binding protein
BG076129	Pcm1	Pericentriolar material 1
BG088662	Pex12	Peroxisomal biogenesis factor 12
BG088691	Pex16	Peroxisome biogenesis factor 16
BG088924	Phkb	Phosphorylase kinase beta
BQ550096	Prdx2	Peroxisiredoxin 2

BG086577	Ptger2	Prostaglandin E receptor 2 (subtype EP2)
BG076377	Rabep1	Rabaptin, RAB GTPase binding effector protein 1
BG076155	Rabl4	RAB, member of RAS oncogene family-like 4
BG088950	Rac1	RAS-related C3 botulinum substrate 1
BG075206	Rpl6	Ribosomal protein L6
BG088362	Rqcd1	Rcd1 (required for cell differentiation) homolog 1 (S. pombe)
BG088931	Sall2	Sal-like 2 (Drosophila)
BG088667	Sesn1	Sestrin 1
BG076501	Sfrs6	Splicing factor, arginine/serine-rich 6
BG076166	Slc12a5	Solute carrier family 12, member 5
BQ550038	Tbc1d12	TBC1D12: TBC1 domain family, member 12
BG076142	Tdh	L-threonine dehydrogenase
BG088909	Tle6	Transducin-like enhancer of split 6, homolog of Drosophila E(spl)
BG086230	Traf7	Tnf receptor-associated factor 7
BG067405	Trip12	Thyroid hormone receptor interactor 12
AW558029	Uqcr	Ubiquinol-cytochrome c reductase (6.4kD) subunit
BG075872	Usp25	Ubiquitin specific peptidase 25
BG086567	Wbp5	WW domain binding protein 5
BG075788	Xpc	Xeroderma pigmentosum, complementation group C
BG076162	Zfp612	Zinc finger protein 612
BG076335	Zfp644	Zinc finger protein 644
AW550445	EST	
AW550680	EST	
AW551902	EST	
AW555179	EST	
AW556991	EST	
AW557207	EST	
AW557344	EST	
AW559082	EST	Transcribed locus
BG074259	EST	
BG074374	EST	
BG075833	EST	
BG076137	EST	Transcribed locus
BG076145	EST	
BG076353	EST	
BG076396	EST	Transcribed locus
BG077789	EST	

BG084425		EST	Transcribed locus
BG088902		EST	
BG088920		EST	
AW551432		1110007C02Rik	RIKEN cDNA 1110007C02 gene
BG073048		1200011O22Rik	RIKEN cDNA 1200011O22 gene
BG076839		1500032L24Rik	RIKEN cDNA 1500032L24 gene
BG073774		2700083E18Rik	RIKEN cDNA 2700083E18 gene
BG078443		2900073G15Rik	RIKEN cDNA 2900073G15 gene
BG065211		3110082I17Rik	RIKEN cDNA 3110082I17 gene
BG067919		4833405L11Rik	RIKEN cDNA 4833405L11 gene
BG065233		6530403A03Rik	RIKEN cDNA 6530403A03 gene
BG063815		Acot9	Acyl-CoA thioesterase 9
BG087449		Acp1	Acid phosphatase 1, soluble
BG072752		Actg1	Actin, gamma, cytoplasmic 1
BG064405		Ahctf1	AT hook containing transcription factor 1
BG077184		AI413782	Expressed sequence AI413782
BG064421		AI425999	Expressed sequence AI425999
BG077796		Akp2	Alkaline phosphatase 2, liver
BG065457		Aldoa	Aldolase 1, A isoform
BG072839		Alkbh3	AlkB, alkylation repair homolog 3 (E. coli)
BG073527		Anp32a	Acidic (leucine-rich) nuclear phosphoprotein 32 family, member A
BG078465		Aof2	Amine oxidase (flavin containing) domain 2
BG078689		Atp5a1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1
BG073380		AW549542	Expressed sequence AW549542
BG078487		BC030867	CDNA sequence BC030867
BG065113		Bcat1	Branched chain aminotransferase 1, cytosolic
BG073443		Bcl9l	B-cell CLL/lymphoma 9-like
BG076617		Calm1	Calmodulin 1
AW537940		Calm2	Calmodulin 2
BG069728		Ccdc39	Coiled-coil domain containing 39
BG064770		Cct5	Chaperonin subunit 5 (epsilon)
BG073423		Cdk9	Cyclin-dependent kinase 9 (CDC2-related kinase)
BG065445		Clca6	Chloride channel calcium activated 6
BG073116		Clic1	Chloride intracellular channel 1
BG072984		Cltc	Clathrin, heavy polypeptide (Hc)
BG078639		Cnot6	CCR4-NOT transcription complex, subunit 6

BG076988	Cox8a	Cytochrome c oxidase, subunit VIIIa
BG068906	Cpeb1	Cytoplasmic polyadenylation element binding protein 1
BG074423	Cstf1	Cleavage stimulation factor, 3' pre-RNA, subunit 1
BG063739	Deb1	Differentially expressed in B16F10 1
BG078439	Dnase1	Deoxyribonuclease I
BG067844	Dscaml1	Down syndrome cell adhesion molecule-like 1
BG069784	Dynlt3	Dynein light chain Tctex-type 3
BG086487	E2f6	E2F transcription factor 6
BG064950	EG433273	Predicted gene, EG433273
BG063829	Eif2a	Eukaryotic translation initiation factor 2a
BG078409	Eno1	Enolase 1, alpha non-neuron
BG065048	Ghdc	GH3 domain containing
BG078343	Ghitm	Growth hormone inducible transmembrane protein
AU023208	Gna14	Guanine nucleotide binding protein, alpha 14
		GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus
AW556925	Gnas	
BG066419	Gpr108	G protein-coupled receptor 108
AW551017	Gprasp1	G protein-coupled receptor associated sorting protein 1
BG077204	Gps1	G protein pathway suppressor 1
BG076882	Hars	Histidyl-tRNA synthetase
BG063755	Homer2	Homer homolog 2 (Drosophila)
BG079631	Hsp90ab1	Heat shock protein 90kDa alpha (cytosolic), class B member 1
BG078338	Hsp90b1	Heat shock protein 90kDa beta (Grp94), member 1
BG069762	Il7	Interleukin 7
BG065065	Impad1	Inositol monophosphatase domain containing 1
AW544628	Itgb1	Integrin beta 1 (fibronectin receptor beta)
BQ551722	Kif3a	Kinesin family member 3A
BG073322	Kif3b	Kinesin family member 3B
BG069796	Klhl2	Kelch-like 2, Mayven (Drosophila)
BG074228	Klhl5	Kelch-like 5 (Drosophila)
BG078444	Kntc1	Kinetochore associated 1
BG063426	Krt7	Keratin 7
BG078651	Large	Like-glycosyltransferase
BG078416	Lrrc40	Leucine rich repeat containing 40
BG085378	Marcks	Myristoylated alanine rich protein kinase C substrate
BG080961	Mdh1	Malate dehydrogenase 1, NAD (soluble)
BG076643	Mgat4b	Mannoside acetylglucosaminyltransferase 4, isoenzyme B

BG086273		Ndufa13	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
BG073544		Nfib	Nuclear factor I/B
BG078592		Nsf	N-ethylmaleimide sensitive fusion protein
BG085840		Olfm1	Olfactomedin 1
AW548258		P4ha1	Procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide
BG065345		Pak2	P21 (CDKN1A)-activated kinase 2
BG074157		Phip	Pleckstrin homology domain interacting protein
BG064066		Pip5k1c	Phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma
BG078663		Pkm2	Pyruvate kinase, muscle
BG065409		Pla2g6	Phospholipase A2, group VI
BG078528		Pou5f1	POU domain, class 5, transcription factor 1
BG078454		Ppia	Peptidylprolyl isomerase A
BG068894		Preb	Prolactin regulatory element binding
BG085625		Prkci	Protein kinase C, iota
BG065166		Prmt5	Protein arginine N-methyltransferase 5
BG065053		Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
BG086188		Ptprg	Protein tyrosine phosphatase, receptor type, G
BG073320		Rag1ap1	Recombination activating gene 1 activating protein 1
BG073546		Rasa3	RAS p21 protein activator 3
BG078516		Rg9mtd1	RNA (guanine-9-) methyltransferase domain containing 1
BG064438		Rod1	ROD1 regulator of differentiation 1 (S. pombe)
BG078442		Rpl15	Ribosomal protein L15
BG086430		Rpl31	Ribosomal protein L31
BG063847		Rpl8	Ribosomal protein L8
BG077726		Rps15	Ribosomal protein S15
BG077529		Rps18	Ribosomal protein S18
BG076934		Rps2	Ribosomal protein S2
BG068918		Rps27a	Ribosomal protein S27a
BG076993		Rrbp1	Ribosome binding protein 1
BG072572		Rsbn1	Rosbin, round spermatid basic protein 1
BG086702		Sh2b1	SH2B adaptor protein 1
BG078449		Sh2b3	SH2B adaptor protein 3
BG078464		Slc13a4	Solute carrier family 13 (sodium/sulfate symporters), member 4
BG088856		Sltm	SAFB-like, transcription modulator
BG063417		Smpd3	Sphingomyelin phosphodiesterase 3, neutral
BG077765		Sox8	SRY-box containing gene 8

BG073524		Spint2	Serine protease inhibitor, Kunitz type 2
BG063138		Spock2	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2
BG073409		Stmn1	Stathmin 1
BG063223		Suclg2	Succinate-Coenzyme A ligase, GDP-forming, beta subunit
AU022550		Suv39h2	Suppressor of variegation 3-9 homolog 2 (Drosophila)
BG069749		Tarbp2	TAR (HIV) RNA binding protein 2
BG067920		Tbc1d10b	TBC1 domain family, member 10b
BG063180		Tbrg4	Transforming growth factor beta regulated gene 4
BG073668		Tfb1m	Transcription factor B1, mitochondrial
BG063212		Tm9sf3	Transmembrane 9 superfamily member 3
BG076581		Tmed2	Transmembrane emp24 domain trafficking protein 2
BG082678		Tns3	Tensin 3
BG081944		Tspan5	Tetraspanin 5
BG064832		Tubb2c	Tubulin, beta 2c
BG077716		Tubb6	Tubulin, beta 6
BQ552732		Uba52	Ubiquitin A-52 residue ribosomal protein fusion product 1
BG069806		Ubc	Ubiquitin C
BG082755		Ubr2	Ubiquitin protein ligase E3 component n-recognin 2
BG086722		Uchl1	Ubiquitin carboxy-terminal hydrolase L1
BG076903		Unc45a	Unc-45 homolog A (C. elegans)
BG078411		Vps41	Vacuolar protein sorting 41 (yeast)
BG073390		Wbscr22	Williams Beuren syndrome chromosome region 22
BG065012		Ywhah	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
BG086134		Zc3hc1	Zinc finger, C3HC type 1
BG069830		Zdhhc7	Zinc finger, DHHC domain containing 7
BG085989		Zfp313	Zinc finger protein 313
BG065115		Zwint	ZW10 interactor
AA407855		EST	
AA409509		EST	
AW549995		EST	
AW553932		EST	
BG063139		EST	
BG065178		EST	
BG068930		EST	
BG069795		EST	Transcribed locus, weakly similar to XP_001078904.1 similar to zinc finger protein 146 [Rattus norvegicus]

BG073115		EST	
BG073612		EST	
BG087495		EST	
BG066274		1700020O03Rik	RIKEN cDNA 1700020O03 gene
AU040159		4732418C07Rik	RIKEN cDNA 4732418C07 gene
BG069602		Acaa2	Acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)
BG079065		Adam15	A disintegrin and metallopeptidase domain 15 (metargidin)
BG069227		Aftph	Aftiphilin
BG065093		Agtrap	Angiotensin II, type I receptor-associated protein
BG068644		Arl6ip2	ADP-ribosylation factor-like 6 interacting protein 2
BG068769		AU023762	Expressed sequence AU023762
BG070749		Brd3	Bromodomain containing 3
BG070932		C030048H21Rik	RIKEN cDNA C030048H21 gene
BG071169		Camk2b	Calcium/calmodulin-dependent protein kinase II, beta
BG069436		Ccdc60	Coiled-coil domain containing 60
BG081903		Hsd3b1	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1
BQ551924		Igf1r	Insulin-like growth factor I receptor
BG085297		Jarid1b	Jumonji, AT rich interactive domain 1B (Rbp2 like)
BG073012		Mamdc1	MAM domain containing 1
BG071128		Mib1	Mindbomb homolog 1 (Drosophila)
BG065778		Mll3	Myeloid/lymphoid or mixed-lineage leukemia 3
BG083317		Net1	Neuroepithelial cell transforming gene 1
BG072344		Orc11	Origin recognition complex, subunit 1-like (S.cereviaiae)
BG071215		Paqr5	Progesterin and adipoQ receptor family member V
BG082619		Pcnt	Pericentrin (kendrin)
BG072296		Phf8	PHD finger protein 8
BG079960		Prkcz	Protein kinase C, zeta
BG065725		Prps1	Phosphoribosyl pyrophosphate synthetase 1
BG071220		Rnf19	Ring finger protein (C3HC4 type) 19
BG062935		Sipa1l2	Signal-induced proliferation-associated 1 like 2
BG078901		Spcs2	Signal peptidase complex subunit 2 homolog (S. cerevisiae)
BG074672		Strbp	Spermatid perinuclear RNA binding protein
BG074497		Tnrc6a	Trinucleotide repeat containing 6a
AU018221		Wwtr1	WW domain containing transcription regulator 1
AU024687		EST	

BG063494		EST	
BG065704		EST	
BG066596		EST	
BG067639		EST	Transcribed locus
BG068110		EST	
BG068321		EST	
BG068854		EST	
BG069078		EST	
BG069343		EST	
BG070824		EST	
BG070930		EST	Transcribed locus
BG071194		EST	
BG071515		EST	
BG072320		EST	Transcribed locus
BG085385		2610024E20Rik	RIKEN cDNA 2610024E20 gene
BG064840		2610033H07Rik	RIKEN cDNA 2610033H07 gene
BG064518		2810422J05Rik	RIKEN cDNA 2810422J05 gene
AA410046		4921517N04Rik	RIKEN cDNA 4921517N04 gene
BG064836		4921537D05Rik	RIKEN cDNA 4921537D05 gene
BG073203		5033428A16Rik	RIKEN cDNA 5033428A16 gene
BG085932		6330577E15Rik	RIKEN cDNA 6330577E15 gene
BQ550715		Anp32b	Acidic nuclear phosphoprotein 32 family, member B
BG075826		Arf3	ADP-ribosylation factor 3
BG080936		Arfgap3	ADP-ribosylation factor GTPase activating protein 3
BG065313		Atp6v1e1	VATPase, H+ transporting, lysosomal V1 subunit E1
AW553617		Bcam	Basal cell adhesion molecule
BG066196		C78409	Expressed sequence C78409
BQ550128		Ccdc9	Coiled-coil domain containing 9
BG085384		Cct2	Chaperonin subunit 2 (beta)
AW538671		Col5a3	Procollagen, type V, alpha 3
BG064855		Cox7a2l	Cytochrome c oxidase subunit VIIa polypeptide 2-like
BG067866		Cxadr	Coxsackievirus and adenovirus receptor
BG064881		D1Ert161e	DNA segment, Chr 1, ERATO Doi 161, expressed
BG078206		D330037H05Rik	RIKEN cDNA D330037H05 gene
BG064783		Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
AW554618		Diap1	Diaphanous homolog 1 (Drosophila)
BG084373		Dmxl2	Dmx-like 2

BG079743		Dnajc7	DnaJ (Hsp40) homolog, subfamily C, member 7
BG064751		E4f1	E4F transcription factor 1
BG067161		Endod1	Endonuclease domain containing 1
C79946		Epb4.1l5	Erythrocyte protein band 4.1-like 5
C80308		Exoc7	Exocyst complex component 7
BG078212		Figl1	Fidgetin-like 1
BG064795		Ftl1	Ferritin light chain 1
BQ552701		Fusip1	FUS interacting protein (serine-arginine rich) 1
BG065382		Gldc	Glycine decarboxylase
BG064940		Gltscr2	Glioma tumor suppressor candidate region gene 2
BQ550758		Gng2	Guanine nucleotide binding protein (G protein), gamma 2 subunit
BQ552668		Gpam	Glycerol-3-phosphate acyltransferase, mitochondrial
BG078210		Ift88	Intraflagellar transport 88 homolog (Chlamydomonas)
BG064653		Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
BG064919		Ilf3	Interleukin enhancer binding factor 3
BG078196		Kcng1	Potassium voltage-gated channel, subfamily G, member 1
BG072604		Lats2	Large tumor suppressor 2
BG064582		Lrrc16	Leucine rich repeat containing 16
BG087465		Mapk14	Mitogen activated protein kinase 14
BG064664		Mbc2	Membrane bound C2 domain containing protein
BG072578		Mrg1	Myeloid ecotropic viral integration site-related gene 1
BG064665		Nucks1	Nuclear casein kinase and cyclin-dependent kinase substrate 1
BG073261		Odz3	Odd Oz/ten-m homolog 3 (Drosophila)
AU017469		Pafah1b2	Platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit
BG064599		Pappa	Pregnancy-associated plasma protein A
BG064642		Pcyt1a	Phosphate cytidyltransferase 1, choline, alpha isoform
BG064930		Pfkl	Phosphofructokinase, liver, B-type
BG082424		Polr2h	Polymerase (RNA) II (DNA directed) polypeptide H
BG078452		Ppia	Peptidylprolyl isomerase A
BG074887		Prlr	Prolactin receptor
BG073534		Psd3	Pleckstrin and Sec7 domain containing 3
BG064701		Psmc2	Proteasome (prosome, macropain) 26S subunit, ATPase 2
BG067921		Psme2	Proteasome (prosome, macropain) 28 subunit, beta
BG076902		Pura	Purine rich element binding protein A
BG078132		Rangap1	RAN GTPase activating protein 1
BG064869		Rnmt	RNA (guanine-7-) methyltransferase
BG085977		Rpl10	Ribosomal protein 10

BG085974		Rpl14	Ribosomal protein L14
BG064641		Rpp14	Ribonuclease P 14 subunit (human)
BG064736		Rrm1	Ribonucleotide reductase M1
BG085334		Sar1a	SAR1 gene homolog A (<i>S. cerevisiae</i>)
BG078157		Sfrs3	Splicing factor, arginine/serine-rich 3 (SRp20)
BG079955		Slc5a11	Solute carrier family 5 (sodium/glucose cotransporter), member 11
BG068299		Slc7a8	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
BG067985		Spred1	Sprouty protein with EVH-1 domain 1, related sequence
BG078109		Tcp1	T-complex protein 1
BG067897		Tnrc6b	Trinucleotide repeat containing 6b
BG086016		Tpm1	Tropomyosin 1, alpha
BG064807		Tpp1	Tripeptidyl peptidase I
BG064856		Tpp2	Tripeptidyl peptidase II
BG073234		Trib1	Tribbles homolog 1 (<i>Drosophila</i>)
BG086839		Trim35	Tripartite motif-containing 35
BG064677		Trpc4ap	Transient receptor potential cation channel, subfamily C, member 4 associated protein
BG066789		Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
BG073139		Vkorc11i	Vitamin K epoxide reductase complex, subunit 1-like 1
BG067887		Wipf2	WAS/WASL interacting protein family, member 2
BG062990		Wiz	Widely-interspaced zinc finger motifs
BG076977		Zranb2	Zinc finger, RAN-binding domain containing 2
AW536284		EST	
AW536295		EST	
AW548714		EST	
BG064784		EST	
BG064868		EST	
BG065291		EST	
BG067886		EST	Transcribed locus, weakly similar to XP_577160.1 similar to LRRGT00088 [<i>Rattus norvegicus</i>]
BG073193		EST	
BG073260		EST	
BG082061		EST	
BG072306		Acaca	Acetyl-Coenzyme A carboxylase alpha
BG075316		Asb1	Ankyrin repeat and SOCS box-containing protein 1
BG076252		AU022870	Expressed sequence AU022870

BG085488		Cog8	Component of oligomeric golgi complex 8
BG080820		Dnajb4	DnaJ (Hsp40) homolog, subfamily B, member 4
BG072695		Erh	Enhancer of rudimentary homolog (Drosophila)
BG086746		Fabp3	Fatty acid binding protein 3, muscle and heart
BG074610		Glb1	Galactosidase, beta 1
BQ552325		Kif3c	Kinesin family member 3C
BG083890		Ppfia1	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein, alpha 1
BG087873		Rps6ka5	Ribosomal protein S6 kinase, polypeptide 5
BG072375		Ubx8	UBX domain containing 8
AW546560		EST	
BG068446		EST	
BG071206		EST	
BG071355		EST	
BG072805		EST	
BG073325		EST	
BG076040		EST	
BG087808		EST	
BQ550895		EST	Transcribed locus
BQ551139		EST	Transcribed locus
BQ551597		EST	
C88307		2610204L23Rik	RIKEN cDNA 2610204L23 gene
BG065432		Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3
BG068557		Actl6a	Actin-like 6A
BG063659		Ap1s1	Adaptor protein complex AP-1, sigma 1
BG085195		Atp2a2	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2
BG071404		AU041129	Expressed sequence AU041129
BG080169		Cyb5r3	Cytochrome b5 reductase 3
BG081063		Cybb	Cytochrome b-245, beta polypeptide
BG063696		D19Wsu162e	DNA segment, Chr 19, Wayne State University 162, expressed
BG068629		EG235580	Predicted gene, EG235580
BG064471		Ext1	Exostoses (multiple) 1
AW545189		Grin1a	Glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A
BG066248		Irf3	Interferon gamma inducible protein 30
BG066801		LOC624424	Similar to poly(A) binding protein, cytoplasmic 4 isoform 1
AA410017		Nip7	Nuclear import 7 homolog (S. cerevisiae)

BG063822		Plekhc1	Pleckstrin homology domain containing, family C (with FERM domain) member 1
BG064693		Psm1	Proteasome (prosome, macropain) subunit, alpha type 1
BG078672		Rpl26	Ribosomal protein L26
BG069613		Tbc1d9b	TBC1 domain family, member 9B
BG071052		Tmem63a	Transmembrane protein 63a
BG077865		Tnfsf5ip1	Tumor necrosis factor superfamily, member 5-induced protein 1
BG063080		Xrn2	5'-3' exoribonuclease 2
AW539369		EST	
AW556716		EST	
BG064488		EST	
BG071172		EST	
BG072105		EST	
BG076368		EST	
BG085733		Septin 8	Septin 8
BG072217		0910001A06Rik	RIKEN cDNA 0910001A06 gene
BG086314		1810013L24Rik	RIKEN cDNA 1810013L24 gene
AU024060		A930005I04Rik	RIKEN cDNA A930005I04 gene
BG086303		Aip	Aryl-hydrocarbon receptor-interacting protein
AW552546		Aldh1a2	Aldehyde dehydrogenase family 1, subfamily A2
BG088087		Capzb	Capping protein (actin filament) muscle Z-line, beta
BG064532		Ccdc58	Coiled-coil domain containing 58
BG079767		Csda	Cold shock domain protein A
BQ552407		Cst3	Cystatin C
BG072903		Ctbp2	C-terminal binding protein 2
BG065918		Ctnna1	Catenin (cadherin associated protein), alpha 1
BG067487		D9Mgi6	DNA Segment, Chr 9, Mouse Genome Informatics 6
BG063515		Fth1	Ferritin heavy chain 1
BG073013		Golph4	Golgi phosphoprotein 4
BG073042		Hbb-b1	Hemoglobin, beta adult major chain
BG076621		Hspa5	Heat shock 70kD protein 5 (glucose-regulated protein)
AW538243		Itga1	Integrin alpha 1
C77408		Krt8	Keratin 8
BG079546		Ncoa6	Nuclear receptor coactivator 6
BG088100		Ndufs1	NADH dehydrogenase (ubiquinone) Fe-S protein 1
BG069369		Pdzd3	PDZ domain containing 3
BG076891		Pkp2	Plakophilin 2

BG075879		Plp1	Proteolipid protein (myelin) 1
BG077025		Pnn	Pinin
BG080270		Prpf3	PRP3 pre-mRNA processing factor 3 homolog (yeast)
BQ552383		Rcl1	RNA terminal phosphate cyclase-like 1
BG064900		Scd1	Stearoyl-Coenzyme A desaturase 1
BG075286		Slc25a3	Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3
BG064802		Sparc	Secreted acidic cysteine rich glycoprotein
BG074398		Sparcl1	SPARC-like 1 (mast9, hevin)
BG082439		Trappc3	Trafficking protein particle complex 3
AW554361		Tspyl2	TSPY-like 2
BG067235		Ttbk2	Tau tubulin kinase 2
BG065641		Txndc5	Thioredoxin domain containing 5
C77246		Yars	Tyrosyl-tRNA synthetase
AU020246		EST	Transcribed locus, strongly similar to XP_227080.3 similar to eukaryotic translation elongation factor 1 alpha 1 [Rattus norvegicus]
AW538365		EST	
AW544835		EST	
AW548385		EST	
BG063541		EST	
BG063953		EST	
BG064632		EST	
BG066258		EST	
BG068317		EST	
BG068487		EST	
BG068668		EST	
BG068917		EST	
BG069139		EST	
BG069140		EST	
BG069152		EST	
BG069163		EST	RNA binding site for Dazl protein, clone kc7
BG072733		EST	
BG075262		EST	
BG086298		EST	
BG064872		1700019N12Rik	RIKEN cDNA 1700019N12 gene
C87836		1810055G02Rik	RIKEN cDNA 1810055G02 gene
BG076242		2010106G01Rik	RIKEN cDNA 2010106G01 gene

BG064862		2010111I01Rik	RIKEN cDNA 2010111I01 gene
BG080256		2410022L05Rik	RIKEN cDNA 2410022L05 gene
AU040419		4933439F18Rik	RIKEN cDNA 4933439F18 gene
BG074949		5830404H04Rik	RIKEN cDNA 5830404H04 gene
BG069482		6330409N04Rik	RIKEN cDNA 6330409N04 gene
BG068979		9330102E08Rik	RIKEN cDNA 9330102E08 gene
BG063679		Aasdhppt	Aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
BG068195		Abce1	ATP-binding cassette, sub-family E (OABP), member 1
BG064885		Acot2	Acyl-CoA thioesterase 2
BG080292		AI481105	Expressed sequence AI481105
BG067951		Alox12e	Arachidonate lipoxygenase, epidermal
BG078211		Arl1	ADP-ribosylation factor-like 1
AW552880		Arsg	Arylsulfatase G
BG076321		Aspm	Asp (abnormal spindle)-like, microcephaly associated (Drosophila)
BG077116		Auts2	Autism susceptibility candidate 2
BG072521		B3galnt2	UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2
BG072161		BC038167	CDNA sequence BC038167
BG075022		Bxdc1	Brix domain containing 1
BQ550980		Chn1	Chimerin (chimaerin) 1
BG083522		Cks2	CDC28 protein kinase regulatory subunit 2
BG072504		Col18a1	Procollagen, type XVIII, alpha 1
BG067822		Coro2b	Coronin, actin binding protein, 2B
BG066881		Cryz	Crystallin, zeta
BG074280		D430042O09Rik	RIKEN cDNA D430042O09 gene
BG072182		Dusp3	Dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)
BG075819		E230024E03Rik	RIKEN cDNA E230024E03 gene
BG077164		Eif3s2	Eukaryotic translation initiation factor 3, subunit 2 (beta)
BG080244		Ern1	Endoplasmic reticulum (ER) to nucleus signalling 1
BG074340		Farp1	FERM, RhoGEF (Arhgef) and pleckstrin domain protein 1 (chondrocyte-derived)
BG074324		Farslb	Phenylalanine-tRNA synthetase-like, beta subunit
BG063802		Fcho2	FCH domain only 2
BG065471		Gk5	Glycerol kinase 5 (putative)
BG086996		Golga1	Golgi autoantigen, golgin subfamily a, 1

BG076263	Hdh	Huntington disease gene homolog
BG068319	Heatr1	HEAT repeat containing 1
BG077487	Hif1a	Hypoxia inducible factor 1, alpha subunit
BG085901	Ifitm2	Interferon induced transmembrane protein 2
BG087082	Ifrg15	Interferon alpha responsive gene
BG071617	Lemd3	LEM domain containing 3
AW552998	Lsm3	LSM3 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)
BG072998	Lum	Lumican
BG085859	Mc2r	Melanocortin 2 receptor
BG078181	Metap1	Methionyl aminopeptidase 1
BG067853	Mgmt	O-6-methylguanine-DNA methyltransferase
BG067984	Mll5	Myeloid/lymphoid or mixed-lineage leukemia 5
BG071638	Mrpl18	Mitochondrial ribosomal protein L18
BG087418	Ms4a6d	Membrane-spanning 4-domains, subfamily A, member 6D
BG066947	Ndp52	Nuclear domain 10 protein 52
BG087727	Nfx1	Nuclear transcription factor, X-box binding 1
BG080881	Npepps	Aminopeptidase puromycin sensitive
BG084112	Nr2f1	Nuclear receptor subfamily 2, group F, member 1
BG086787	Numa1	Nuclear mitotic apparatus protein 1
BG085485	Oaz3	Ornithine decarboxylase antizyme 3
BG072372	Pcp4l1	Purkinje cell protein 4-like 1
BG087717	Pms2	Postmeiotic segregation increased 2 (<i>S. cerevisiae</i>)
BG087766	Pnpla8	Patatin-like phospholipase domain containing 8
BG067151	Ppp2r1b	Protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform
BG085163	Ptpfr	Protein tyrosine phosphatase, receptor type, F
BG071651	Rab11a	RAB11a, member RAS oncogene family
BG072553	Rab11fip1	RAB11 family interacting protein 1 (class I)
BG088768	Rcn3	Reticulocalbin 3, EF-hand calcium binding domain
BG067185	Runx2	Runt related transcription factor 2
BG080423	Sart2	Squamous cell carcinoma antigen recognized by T cells 2
BG081064	Secisbp2	SECIS binding protein 2
BG073672	Sephs1	Selenophosphate synthetase 1
BG074293	Sh3tc2	SH3 domain and tetratricopeptide repeats 2
BG085951	Slc37a2	Solute carrier family 37 (glycerol-3-phosphate transporter), member 2
BG068288	Slco1b2	Solute carrier organic anion transporter family, member 1b2
AU022611	Smc6	Structural maintenance of chromosomes 6

BG081031		Smox	Spermine oxidase
BG071657		Smu1	Smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)
BG078208		Srprb	Signal recognition particle receptor, B subunit
BG084249		Ssh1	Slingshot homolog 1 (Drosophila)
BG074313		Syngn2	Synaptogyrin 2
BG071687		Synj2bp	Synaptojanin 2 binding protein
BG086829		Sypl	Synaptophysin-like protein
BG067233		Ttc32	Tetratricopeptide repeat domain 32
BG086421		Usmg5	Upregulated during skeletal muscle growth 5
BG074853		Usp34	Ubiquitin specific peptidase 34
BG074348		Wnk4	WNK lysine deficient protein kinase 4
BG074888		Xpo5	Exportin 5
BG074305		Yap1	Yes-associated protein 1
BG067943		Zcchc6	Zinc finger, CCHC domain containing 6
BG078199		Zfp281	Zinc finger protein 281
AW553287		EST	
AW558484		EST	
BG066923		EST	
BG067197		EST	
BG067209		EST	
BG067243		EST	
BG067854		EST	
BG067995		EST	Transcribed locus
BG072181		EST	
BG073099		EST	
BG073132		EST	
BG074282		EST	
BG074322		EST	Transcribed locus
BG075052		EST	
BG084523		EST	
C80679		EST	
BG078874		1110061O04Rik	RIKEN cDNA 1110061O04 gene
AW557796		1500011J06Rik	RIKEN cDNA 1500011J06 gene
BG082886		2010305A19Rik	RIKEN cDNA 2010305A19 gene
BG075517		2410127E18Rik	RIKEN cDNA 2410127E18 gene
BG085636		2610005L07Rik	RIKEN cDNA 2610005L07 gene
AU015471		2610529C04Rik	RIKEN cDNA 2610529C04 gene

BG068399	4930432O21Rik	RIKEN cDNA 4930432O21 gene
BG072938	4930473A06Rik	RIKEN cDNA 4930473A06 gene
BG077603	5730494M16Rik	RIKEN cDNA 5730494M16 gene
BG078323	5730536A07Rik	RIKEN cDNA 5730536A07 gene
BG066229	6720457D02Rik	RIKEN cDNA 6720457D02 gene
BG085732	9130004C02Rik	RIKEN cDNA 9130004C02 gene
AW554339	9630037P07Rik	RIKEN cDNA 9630037P07 gene
BG077905	AA881470	EST AA881470
BG067888	Aak1	AP2 associated kinase 1
BG070055	Alg13	Asparagine-linked glycosylation 13 homolog (<i>S. cerevisiae</i>)
BG065639	Ap1gbp1	AP1 gamma subunit binding protein 1
BG063970	Atf7ip	Activating transcription factor 7 interacting protein
BG081746	Azin1	Antizyme inhibitor 1
BG078265	BC011248	CDNA sequence BC011248
BG083308	BC013481	CDNA sequence BC013481
BG065711	BC033606	CDNA sequence BC033606
BG072651	Bnc1	Basonuclin 1
BG077928	C130032J12Rik	RIKEN cDNA C130032J12 gene
BG070530	C430003P19Rik	RIKEN cDNA C430003P19 gene
BQ550730	Ccdc36	Coiled-coil domain containing 36
BG065644	Cdc5l	Cell division cycle 5-like (<i>S. pombe</i>)
BQ550373	Cdh5	Cadherin 5
BG071313	Cdkn1c	Cyclin-dependent kinase inhibitor 1C (P57)
BG066570	Cdyl2	Chromodomain protein, Y chromosome-like 2
BG065629	Centd1	Centaurin, delta 1
BG068414	Col25a1	Procollagen, type XXV, alpha 1
BG065899	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog (<i>S. cerevisiae</i>)
BG083209	Cyba	Cytochrome b-245, alpha polypeptide
BG073364	Cyp51	Cytochrome P450, family 51
BG070372	D10Ert641e	DNA segment, Chr 10, ERATO Doi 641, expressed
BG065769	D5Ert135e	DNA segment, Chr 5, ERATO Doi 135, expressed
BG068420	D8Ert457e	DNA segment, Chr 8, ERATO Doi 457, expressed
BG064252	Dhx57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57
BG087920	Dlst	Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
BG070080	Dmgdh	Dimethylglycine dehydrogenase precursor

BG066580		Dsg2	Desmoglein 2
BG066292		Dtnbp1	Dystrobrevin binding protein 1
BG078920		EG668628	Predicted gene, EG668628
AU041770		Emid2	EMI domain containing 2
BG069525		Erccl4	Excision repair cross-complementing rodent repair deficiency, complementation group 4
BG065623		Etnk1	Ethanolamine kinase 1
BG065915		Etv6	Ets variant gene 6 (TEL oncogene)
BG066491		Fhod3	Formin homology 2 domain containing 3
BG086904		Fis1	Fission 1 (mitochondrial outer membrane) homolog (yeast)
BG078930		Fkbp4	FK506 binding protein 4
BG066009		Gtf3c2	General transcription factor IIC, polypeptide 2, beta
BG069255		Hira	Histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>)
BG073539		Hsd17b10	Hydroxysteroid (17-beta) dehydrogenase 10
BG064506		Il17d	Interleukin 17D
BG085435		Impact	Imprinted and ancient
BG087223		Itga3	Integrin alpha 3
BG072195		Jam3	Junction adhesion molecule 3
BG066271		Kars	Lysyl-tRNA synthetase
BG067748		Lrrc8e	Leucine rich repeat containing 8 family, member E
BG065612		Lrrk2	Leucine-rich repeat kinase 2
BG087954		Ltbp1	Latent transforming growth factor beta binding protein 1
BG070588		Map1lc3b	Microtubule-associated protein 1 light chain 3 beta
BG078615		Mns1	Meiosis-specific nuclear structural protein 1
BG077638		Mrpl19	Mitochondrial ribosomal protein L19
BG082228		Mybl2	Myeloblastosis oncogene-like 2
BG076620		Myo1e	Myosin IE
BI076789		Myst4	MYST histone acetyltransferase monocytic leukemia 4
BG069191		Nasp	Nuclear autoantigenic sperm protein (histone-binding)
BG073427		Nat12	N-acetyltransferase 12
BG068017		Ncoa1	Nuclear receptor coactivator 1
BG064588		Nfat5	Nuclear factor of activated T-cells 5
BG067047		Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
AW546675		Palld	Palladin, cytoskeletal associated protein
BG065645		Parl	Presenilin associated, rhomboid-like
BG070555		Pawr	PRKC, apoptosis, WT1, regulator

BG069544	Pde3a	Phosphodiesterase 3A, cGMP inhibited
BG087768	Pde5a	Phosphodiesterase 5A, cGMP-specific
BG084383	Pde6d	Phosphodiesterase 6D, cGMP-specific, rod, delta
BG071525	Pdzd2	PDZ domain containing 2
BG063222	Pecam1	Platelet/endothelial cell adhesion molecule 1
BG087523	Pes1	Pescadillo homolog 1, containing BRCT domain (zebrafish)
BG083442	Pex19	Peroxisome biogenesis factor 19
BG078897	Phf12	PHD finger protein 12
BG064503	Phf23	PHD finger protein 23
BG072458	Pink1	PTEN induced putative kinase 1
BG078885	Plk4	Polo-like kinase 4 (Drosophila)
BG066315	Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
BG065773	Ppp2r5c	Protein phosphatase 2, regulatory subunit B (B56), gamma isoform
BG065790	Ppp2r5e	Protein phosphatase 2, regulatory subunit B (B56), epsilon isoform
BG081448	Ppp3cb	Protein phosphatase 3, catalytic subunit, beta isoform
BG069898	Psmd11	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
BG066562	Psmd7	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
BG086278	Ptn	Pleiotrophin
BG074880	Ptpn6	Protein tyrosine phosphatase, non-receptor type 6
BG066306	Ranbp9	RAN binding protein 9
BG068432	Rap1a	RAS-related protein-1a
BG078834	Renbp	Renin binding protein
BG072059	Rex2	Reduced expression 2
BG072629	Rhbdd3	Rhomboid domain containing 3
BG078882	Serpnb6c	Serine (or cysteine) peptidase inhibitor, clade B, member 6c
AW557944	Sfrs14	Splicing factor, arginine/serine-rich 14
BG077930	Snx10	Sorting nexin 10
BG088731	Spag9	Sperm associated antigen 9
BG069945	Stag2	Stromal antigen 2
BG069533	Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila)
BG076896	Tardbp	TAR DNA binding protein
BG087876	Tbc1d1	TBC1 domain family, member 1
BG064989	Tcta	T-cell leukemia translocation altered gene
BG088528	Tdrkh	Tudor and KH domain containing protein
BG086192	Tgfb1i1	Transforming growth factor beta 1 induced transcript 1
BG069517	Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12
BG066559	Tnks1bp1	Tankyrase 1 binding protein 1

BG062981		Tprkb	Tp53rk binding protein
BG079014		Trpm7	Transient receptor potential cation channel, subfamily M, member 7
BG082843		Trrap	Transformation/transcription domain-associated protein
BG066560		Tubgcp5	Tubulin, gamma complex associated protein 5
BG077640		Ufd1l	Ubiquitin fusion degradation 1 like
BG074836		Usp4	Ubiquitin specific peptidase 4 (proto-oncogene)
			Ubiquitously transcribed tetratricopeptide repeat gene, X chromosome
BG076105		Utx	
BG065616		Vcp	Valosin containing protein
AU041113		Vps54	Vacuolar protein sorting 54 (yeast)
BG076009		Wdr24	WD repeat domain 24
BG081054		Xlr3b	X-linked lymphocyte-regulated 3B
BG069367		Zfand2b	Zinc finger, AN1 type domain 2B
BG086136		Zfp51	Zinc finger protein 51
BG065890		Zfp710	Zinc finger protein 710
AW540949		EST	
AW546889		EST	
AW550178		EST	
AW552212		EST	
AW554424		EST	
AW557711		EST	
BG063053		EST	
BG063089		EST	
BG063195		EST	
			2 cells egg cDNA, RIKEN full-length enriched library, clone:B020036G17
BG063398		EST	product:unclassifiable, full insert sequence
BG063665		EST	
BG063945		EST	
BG064219		EST	
BG065610		EST	
BG065611		EST	
BG065622		EST	
BG065635		EST	
BG065650		EST	
BG065651		EST	
BG065657		EST	
BG065659		EST	

BG065666	EST
BG065957	EST
BG065991	EST
BG065992	EST
BG066066	EST
BG066341	EST
BG066362	EST
BG066412	EST
BG066561	EST
BG066579	EST
BG066647	EST
BG066670	EST
BG066711	EST
BG066720	EST
BG066778	EST
BG068069	EST
BG068123	EST

Transcribed locus

BG068347	EST
BG068410	EST
BG068421	EST
BG068426	EST
BG068436	EST
BG068456	EST
BG068469	EST
BG068684	EST
BG068840	EST
BG069127	EST
BG069363	EST
BG069501	EST
BG070059	EST
BG070182	EST
BG070250	EST
BG070256	EST
BG070301	EST
BG070436	EST
BG070725	EST

Transcribed locus, strongly similar to XP_895654.1 similar to protein kinase LYK5 [Mus musculus]

Transcribed locus

BG070931		EST
BG071290		EST
BG071357		EST
BG071395		EST
BG071436		EST
BG072130		EST
BG072687		EST
BG073298		EST
BG074775		EST
BG074909		EST
BG075264		EST
BG075276		EST
BG075416		EST
BG075971		EST
BG075999		EST
BG076724		EST
BG076725		EST
BG079400		EST
BG084956		EST
BG086296		EST
BQ550410		EST
C76156		EST
C79706		EST
C79832		EST

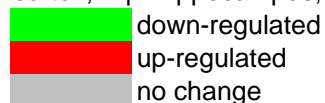
Transcribed locus, weakly similar to NP_982429.1 [Eremothecium gossypii]

Transcribed locus, weakly similar to XP_573813.1 similar to envelope protein [Rattus norvegicus]

CDNA clone IMAGE:1548559

TableS2aP3. Gene lists of mouse CNS age-related gene expression pattern 3

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.



Acc	Cor-p3	Hip-p3	Cer-p3	Str-p3	SC-p3	Symbol	Name
BG076195	up-regulated	no change	no change	no change	no change	4931419K03Rik	RIKEN cDNA 4931419K03 gene
BG075229	up-regulated	no change	no change	no change	no change	Atrn1	Attractin like 1
BG076206	up-regulated	no change	no change	no change	no change	Bscl2	Bernardinelli-Seip congenital lipodystrophy 2 homolog (human)
BG075862	up-regulated	no change	no change	no change	no change	Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1
BG076185	up-regulated	no change	no change	no change	no change	Ptbp2	Polypyrimidine tract binding protein 2
BG075873	up-regulated	no change	no change	no change	no change	Tbc1d20	TBC1 domain family, member 20
BG069139	no change	up-regulated	no change	no change	no change	EST	
BQ552212	no change	no change	no change	down-regulated	no change	1500011J06Rik	RIKEN cDNA 1500011J06 gene
BG066708	no change	no change	no change	down-regulated	no change	AU020772	Expressed sequence AU020772
BG063312	no change	no change	no change	down-regulated	no change	Bat3	HLA-B-associated transcript 3
AW536452	no change	no change	no change	down-regulated	no change	Cul4b	Cullin 4B
BG068843	no change	no change	no change	down-regulated	no change	Fchsd2	FCH and double SH3 domains 2
BG079611	no change	no change	no change	down-regulated	no change	Irak1	Interleukin-1 receptor-associated kinase 1
AA408772	no change	no change	no change	down-regulated	no change	Jmjd3	Jumonji domain containing 3
BG067912	no change	no change	no change	down-regulated	no change	Mrg1	Myeloid ecotropic viral integration site-related gene 1
BG082228	no change	no change	no change	down-regulated	no change	Mybl2	Myeloblastosis oncogene-like 2
BG069533	no change	no change	no change	down-regulated	no change	Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila)
BG078317	no change	no change	no change	down-regulated	no change	Ttc19	Tetratricopeptide repeat domain 19
BG076766	no change	no change	no change	down-regulated	no change	Ttr	Transthyretin
BG069606	no change	no change	no change	down-regulated	no change	Zfp592	Zinc finger protein 592
BG065957	no change	no change	no change	down-regulated	no change	EST	
BG067146	no change	no change	no change	down-regulated	no change	EST	
BG069183	no change	no change	no change	down-regulated	no change	EST	
BG069648	no change	no change	no change	down-regulated	no change	EST	
BG070059	no change	no change	no change	down-regulated	no change	EST	
BG070382	no change	no change	no change	down-regulated	no change	EST	
BG070913	no change	no change	no change	down-regulated	no change	EST	
BQ550410	no change	no change	no change	down-regulated	no change	EST	

BG076983			Necap2	NECAP endocytosis associated 2
BG080382			5730427N09Rik	RIKEN cDNA 5730427N09 gene
BG064553			Thumpd1	THUMP domain containing 1
BG066789			Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
BG065142			Zfp422	Zinc finger protein 422

TableS2aP4. Gene lists of mouse CNS age-related gene expression pattern 4

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.

	down-regulated
	up-regulated
	no change

Acc	Cor-p4	Hip-p4	Cer-p4	Str-p4	SC-p4	Symbol	Name
BG074626						Prkg1	Protein kinase, cGMP-dependent, type I
BG064773						Hsp90aa1	Heat shock protein 90kDa alpha (cytosolic), class A member 1
BG064819						Pa2g4	Proliferation-associated 2G4
BG064831						Tubb2c	Tubulin, beta 2c
BG063736						Nik	Nemo like kinase
BG072287						Cenpk	Centromere protein K
BG066387						Pafah1b2	Platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit
BG083661						EST	
BG072217						0910001A06Rik	RIKEN cDNA 0910001A06 gene
BG073451						2010003J03Rik	RIKEN cDNA 2010003J03 gene
BG073340						4921524J06Rik	RIKEN cDNA 4921524J06 gene
BG070991						AU017834	Expressed sequence AU017834
BG071340						Ccnd3	Cyclin D3
BG073423						Cdk9	Cyclin-dependent kinase 9 (CDC2-related kinase)
BG071373						Epdr2	Ependymin related protein 2 (zebrafish)
BG084192						Ik	IK cytokine
BG071473						Lrp2	Low density lipoprotein receptor-related protein 2
BG072041						Nolc1	Nucleolar and coiled-body phosphoprotein 1
BG071483						Prune	Prune homolog (Drosophila)
BG085534						Tcf4	Transcription factor 4
AU046250						EST	Transcribed locus
AW549861						EST	
BG068202						EST	
BG070789						EST	
BG071375						EST	Transcribed locus
BG072042						EST	
BG084861						2700050L05Rik	RIKEN cDNA 2700050L05 gene

BG075232		Aox3	Aldehyde oxidase 3
BQ550079		Cltb	Clathrin, light polypeptide (Lcb)
BG088723		Dbnl	Drebrin-like
BG075553		Ddr2	Discoidin domain receptor family, member 2
BG073936		Ehbp111	EH domain binding protein 1-like 1
BQ550136		Eif4a1	Eukaryotic translation initiation factor 4A1
BG073875		Esr1	Estrogen receptor 1 (alpha)
BQ552701		Fusip1	FUS interacting protein (serine-arginine rich) 1
BG088871		Gata4	GATA binding protein 4
BG087780		Gstm1	Glutathione S-transferase, mu 1
BG075825		Kifc2	Kinesin family member C2
BQ550139		Mat2a	Methionine adenosyltransferase II, alpha
BG074233		Ndfip1	Nedd4 family interacting protein 1
BG088404		Polr2d	Polymerase (RNA) II (DNA directed) polypeptide D
BG076196		Pskh1	Protein serine kinase H1
BG075069		Ptdsr	Phosphatidylserine receptor
BG076387		Rab3d	RAB3D, member RAS oncogene family
BQ550060		Rpn1	Ribophorin I
BG088850		Sh2b3	SH2B adaptor protein 3
BG076120		Smurf1	SMAD specific E3 ubiquitin protein ligase 1
BG087779		Sumo2	SMT3 suppressor of mif two 3 homolog 2 (yeast)
BG076410		Wnt4	Wingless-related MMTV integration site 4
AU040550		EST	
AW551856		EST	
AW554651		EST	
AW556496		EST	
AW558800		EST	
BG073267		EST	
BG073930		EST	
BG074399		EST	
BI076870		EST	
BG065185		3930401K13Rik	RIKEN cDNA 3930401K13 gene
BG077739		Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1
BG077799		Atp6v0c	ATPase, H+ transporting, lysosomal V0 subunit C
BG065210		Cwf19l2	CWF19-like 2, cell cycle control (S. pombe)
BG063729		EG433273	Predicted gene, EG433273

BG078478		Gpc3	Glypican 3
BG063728		Morf4l2	Mortality factor 4 like 2
BG068329		Mybl1	Myeloblastosis oncogene-like 1
BG063881		Neu1	Neuraminidase 1
BG063734		Phip	Pleckstrin homology domain interacting protein
BG078451		Ppia	Peptidylprolyl isomerase A
BG073526		Ptov1	Prostate tumor over expressed gene 1
BG078499		Rab17	RAB17, member RAS oncogene family
BG065173		Rnf185	Ring finger protein 185
BG073039		Rxrb	Retinoid X receptor beta
BG064820		Sae1	SUMO1 activating enzyme subunit 1
BG078617		Sf3b2	Splicing factor 3b, subunit 2
BG069808		Tubb2b	Tubulin, beta 2b
BG086914		Txn14	Thioredoxin-like 4
BG073487		Zfp335	Zinc finger protein 335
AW538179		EST	
AW541497		EST	
BG064458		EST	
BQ551141		1110065H08Rik	RIKEN cDNA 1110065H08 gene
BQ552212		1500011J06Rik	RIKEN cDNA 1500011J06 gene
BQ552600		1700011I03Rik	RIKEN cDNA 1700011I03 gene
BG074444		1700041C02Rik	RIKEN cDNA 1700041C02 gene
BG068366		4932414N04Rik	RIKEN cDNA 4932414N04 gene
BG083257		4933426K21Rik	RIKEN cDNA 4933426K21 gene
BG066726		8430426H19Rik	RIKEN cDNA 8430426H19 gene
AU024060		A930005I04Rik	RIKEN cDNA A930005I04 gene
BQ550902		Arf4	ADP-ribosylation factor 4
BG082495		Asl	Argininosuccinate lyase
BG070516		Auh	AU RNA binding protein/enoyl-coenzyme A hydratase
BG072468		Banp	Btg3 associated nuclear protein
BG083476		BC003331	CDNA sequence BC003331
BG066764		BC033915	CDNA sequence BC033915
BQ550730		Ccdc36	Coiled-coil domain containing 36
BG071313		Cdkn1c	Cyclin-dependent kinase inhibitor 1C (P57)
BG073943		Csnk1g1	Casein kinase 1, gamma 1
BG065713		D17Ert29e	DNA segment, Chr 17, ERATO Doi 29, expressed

BG068169	D430042O09Rik	RIKEN cDNA D430042O09 gene
AU042625	D430042O09Rik	Deleted in bladder cancer 1 (human)
BI076814	D430042O09Rik	Dihydrolipoamide branched chain transacylase E2
BQ552530	D430042O09Rik	Discs, large homolog 1 (Drosophila)
BG079743	D430042O09Rik	DnaJ (Hsp40) homolog, subfamily C, member 7
BG081778	D430042O09Rik	Dedicator of cytokinesis 4
BG071947	D430042O09Rik	Dystrobrevin alpha
BG069356	D430042O09Rik	Erythrocyte protein band 4.1-like 5
BG083466	D430042O09Rik	Electron transferring flavoprotein, dehydrogenase
BQ551776	D430042O09Rik	F-box protein 30
BQ551773	D430042O09Rik	Fer-1-like 3, myoferlin (C. elegans)
BG086904	D430042O09Rik	Fission 1 (mitochondrial outer membrane) homolog (yeast)
BG078930	D430042O09Rik	FK506 binding protein 4
BG066451	D430042O09Rik	Geranylgeranyl diphosphate synthase 1
BG087265	D430042O09Rik	Hepatoma-derived growth factor, related protein 3
BG079049	D430042O09Rik	HEAT repeat containing 2
BG067905	D430042O09Rik	Interleukin 17F
BG074597	D430042O09Rik	INO80 complex homolog 1 (S. cerevisiae)
BG071191	D430042O09Rik	Integrin, alpha 11
BG069378	D430042O09Rik	Potassium voltage-gated channel, subfamily H (eag-related), member 3
BG069589	D430042O09Rik	Potassium inwardly-rectifying channel, subfamily K, member 6
BG073351	D430042O09Rik	KDEL (Lys-Asp-Glu-Leu) containing 2
C77408	D430042O09Rik	Keratin 8
C79740	D430042O09Rik	Lactation elevated 1
BG084150	D430042O09Rik	Leucine aminopeptidase 3
BG073494	D430042O09Rik	Leprecan-like 2
BG083489	D430042O09Rik	Neuregulin 4
BG075119	D430042O09Rik	Poly(A) polymerase gamma
BQ551164	D430042O09Rik	PAS domain containing serine/threonine kinase
BG079475	D430042O09Rik	Phosphatidylinositol 4-kinase, catalytic, alpha polypeptide
BG071360	D430042O09Rik	Protein O-fucosyltransferase 1
BG074143	D430042O09Rik	Polymerase (RNA) III (DNA directed) polypeptide G like
BG065945	D430042O09Rik	PRP3 pre-mRNA processing factor 3 homolog (yeast)
C76498	D430042O09Rik	Proline rich 8
BG084049	D430042O09Rik	Prostaglandin I2 (prostacyclin) synthase
BG077083	D430042O09Rik	RAD1 homolog (S. pombe)

BG069368	Rfx1	Regulatory factor X, 1 (influences HLA class II expression)
BG082484	Rgs12	Regulator of G-protein signaling 12
BG079971	Rpgrip1	Retinitis pigmentosa GTPase regulator interacting protein 1
BG074764	Sfxn1	Sideroflexin 1
BG084160	Slc11a2	member 2
BG073944	Slc24a3	member 3
BG084153	Suox	Sulfite oxidase
BG079028	Trpm7	Transient receptor potential cation channel, subfamily M, member 7
BG066722	Ube2h	Ubiquitin-conjugating enzyme E2H
BG068877	Vcam1	Vascular cell adhesion molecule 1
BG071334	Wwtr1	WW domain containing transcription regulator 1
BG070918	Ywhaq	protein, theta polypeptide
BG069212	Zfp750	Zinc finger protein 750
BG070672	Zfp9	Zinc finger protein 9
AU016579	EST	
AU040379	EST	
AU040688	EST	
AU042949	EST	
BG065697	EST	
BG065888	EST	
BG065928	EST	
BG066678	EST	XP_906965 [Mus musculus]
BG066720	EST	
BG066753	EST	
BG067149	EST	
BG067603	EST	
BG067764	EST	
BG068106	EST	
BG068109	EST	
BG068189	EST	
BG068317	EST	
BG068354	EST	
BG068775	EST	
BG069127	EST	
BG069140	EST	
BG069141	EST	

BG069152		EST	
BG069590		EST	
BG070466		EST	
BG070587		EST	
BG070808		EST	
BG070931		EST	
BG070969		EST	
BG070970		EST	
BG070980		EST	finger protein 146 [Rattus norvegicus]
BG071170		EST	
BG071183		EST	
BG071461		EST	
BG071603		EST	
BG071864		EST	
BG071961		EST	Transcribed locus
BG072233		EST	
BG073033		EST	
BG076914		EST	
BG079861		EST	
BG081202		EST	
BG084074		EST	
BQ552510		EST	
BQ552528		EST	
BQ552631		EST	
C78984		EST	
C85807		EST	
BG074675		2010301N04Rik	RIKEN cDNA 2010301N04 gene
BQ552312		Fbxw11	F-box and WD-40 domain protein 11
BG076883		1500003O22Rik	RIKEN cDNA 1500003O22 gene
BG069138		EST	
BG086954		App	Amyloid beta (A4) precursor protein
AW554394		0610012D17Rik	RIKEN cDNA 0610012D17 gene
BG084482		1110049F12Rik	RIKEN cDNA 1110049F12 gene
BG064840		2610033H07Rik	RIKEN cDNA 2610033H07 gene
BG064835		Adamts10	thrombospondin type 1 motif, 10
C85471		Aifm1	Apoptosis-inducing factor, mitochondrion-associated 1

BG064719		Ankrd32	Ankyrin repeat domain 32
BG080936		Arfgap3	ADP-ribosylation factor GTPase activating protein 3
BG067918		Btg2	B-cell translocation gene 2, anti-proliferative
BG067220		Btg4	B-cell translocation gene 4
BG067864		C430004E15Rik	RIKEN cDNA C430004E15 gene
BG078093		Cbx3	Chromobox homolog 3 (Drosophila HP1 gamma)
BG067909		Ccdc69	Coiled-coil domain containing 69
BG077073		Ccnh	Cyclin H
BG067933		Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BG067896		Cnih	Cornichon homolog (Drosophila)
AW538671		Col5a3	Procollagen, type V, alpha 3
BG067866		Cxadr	Coxsackievirus and adenovirus receptor
BG067879		D330050I23Rik	RIKEN cDNA D330050I23 gene
BG067931		Dna2l	DNA2 DNA replication helicase 2-like (yeast)
BG064842		Emb	Embigin
C80308		Exoc7	Exocyst complex component 7
BG078212		Figl1	Fidgetin-like 1
BG064427		Fkbp15	FK506 binding protein 15
BG067932		Glul	Glutamate-ammonia ligase (glutamine synthetase)
BG064875		Hs3st3b1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
BG076621		Hspa5	Heat shock 70kD protein 5 (glucose-regulated protein)
BG077115		Hunk	Hormonally upregulated Neu-associated kinase
BG078210		Ift88	Intraflagellar transport 88 homolog (Chlamydomonas)
BG078092		Isg20l1	Interferon stimulated exonuclease gene 20-like 1
BG085919		Jrk	Jerky
BG085336		Matn2	Matrilin 2
BG080478		Mosc2	MOCO sulphurase C-terminal domain containing 2
BG074323		Nr2c2	Nuclear receptor subfamily 2, group C, member 2
BG078192		Pam	Peptidylglycine alpha-amidating monooxygenase
BG067908		Prep	Prolyl endopeptidase
BG067867		Ptpn14	Protein tyrosine phosphatase, non-receptor type 14
BG072729		Rbm12b	RNA binding motif protein 12B
BG064736		Rrm1	Ribonucleotide reductase M1
BG078138		Rrm2	Ribonucleotide reductase M2
BG074010		Ryr2	Ryanodine receptor 2, cardiac
BG085334		Sar1a	SAR1 gene homolog A (S. cerevisiae)

BG064853		Slc16a3	Solute carrier family 16 (monocarboxylic acid transporters), member 3
BG064714		Slc3a2	transport), member 2
BG067865		Slc4a8	Solute carrier family 4 (anion exchanger), member 8
BG063419		Smap1	Stromal membrane-associated protein 1
BG067985		Spred1	Sprouty protein with EVH-1 domain 1, related sequence
BG067974		Thsd7b	Thrombospondin, type I, domain containing 7B
BG064763		Top3b	Topoisomerase (DNA) III beta
BG075608		Tpi1	Triosephosphate isomerase 1
BG073370		Ttc3	Tetratricopeptide repeat domain 3
BG075001		Uqcrc2	Ubiquinol cytochrome c reductase core protein 2
BG064874		Usp38	Ubiquitin specific peptidase 38
BG077459		Utrn	Utrophin
BG064839		Wdr1	WD repeat domain 1
AW536284		EST	
AW537187		EST	
BG067877		EST	
BG067884		EST	
BG068015		EST	
BG077103		EST	Transcribed locus
C88049		EST	
BG069904		1190005F20Rik	RIKEN cDNA 1190005F20 gene
BG082833		1500003O03Rik	RIKEN cDNA 1500003O03 gene
BQ550748		1700081L11Rik	RIKEN cDNA 1700081L11 gene
BQ550162		2510006D16Rik	RIKEN cDNA 2510006D16 gene
BG070762		4930589O11Rik	RIKEN cDNA 4930589O11 gene
BG068796		6330581L23Rik	RIKEN cDNA 6330581L23 gene
BQ550664		8030451K01Rik	RIKEN cDNA 8030451K01 gene
BG065753		9130011E15Rik	RIKEN cDNA 9130011E15 gene
BG066056		9130404D08Rik	RIKEN cDNA 9130404D08 gene
BG067331		AA388235	Expressed sequence AA388235
BG073745		Acbd3	Acyl-Coenzyme A binding domain containing 3
C76711		Aco2	Aconitase 2, mitochondrial
BG070091		Arih1	(Drosophila)
BG066446		Arih2	Ariadne homolog 2 (Drosophila)
BQ550263		Bcl7c	B-cell CLL/lymphoma 7C
BG065601		Birc1c	Baculoviral IAP repeat-containing 1c

BG066501	Brd1	Bromodomain containing 1
BG075437	C80913	Expressed sequence C80913
BG079251	Cab39	Calcium binding protein 39
BG066467	Cdh13	Cadherin 13
BQ551701	Cdh23	Cadherin 23 (otocadherin)
C79238	Chchd3	Coiled-coil-helix-coiled-coil-helix domain containing 3
BG083212	D14Ert668e	DNA segment, Chr 14, ERATO Doi 668, expressed
BG071093	D930036F22Rik	RIKEN cDNA D930036F22 gene
BG066942	Dnmt3b	DNA methyltransferase 3B
BG071581	Dtl	Denticleless homolog (Drosophila)
BG070773	Fkbp1a	FK506 binding protein 1a
BG071167	Fndc7	Fibronectin type III domain containing 7
BQ550168	Fnip1	Folliculin interacting protein 1
BG082154	Il4	Interleukin 4
BQ550134	Ilf3	Interleukin enhancer binding factor 3
BQ551582	Lass6	Longevity assurance homolog 6 (S. cerevisiae)
BG077319	Lzts2	Leucine zipper, putative tumor suppressor 2
BG082854	Mesp2	Mesoderm posterior 2
BG074486	MGC107415	Hypothetical protein LOC383216
BG067912	Mrg1	Myeloid ecotropic viral integration site-related gene 1
BG067031	Narg1	NMDA receptor-regulated gene 1
BG079401	Nars	Asparaginyl-tRNA synthetase
BG064395	Nfat5	Nuclear factor of activated T-cells 5
AU014844	Ogdh	Oxoglutarate dehydrogenase (lipoamide)
BG069555	Osbpl8	Oxysterol binding protein-like 8
BG065744	Pank3	Pantothenate kinase 3
BG073605	Pawr	PRKC, apoptosis, WT1, regulator
AU021253	Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
BG065524	Prei3	Preimplantation protein 3
BG079293	Psma3	Proteasome (prosome, macropain) subunit, alpha type 3
BG066125	Psma4	Proteasome (prosome, macropain) subunit, alpha type 4
BQ550154	Psma7	Proteasome (prosome, macropain) subunit, alpha type 7
C76941	Ranbp5	RAN binding protein 5
BG082817	Rb1	Retinoblastoma 1
BG072412	Sdk1	Sidekick homolog 1 (chicken)
BQ550417	Srgap2	SLIT-ROBO Rho GTPase activating protein 2

BG071533		Srpk2	Serine/arginine-rich protein specific kinase 2
BG070349		Taf1	factor
BG079504		Tug1	Taurine upregulated gene 1
BQ552073		Ufd1l	Ubiquitin fusion degradation 1 like
BG066683		Zfp292	Zinc finger protein 292
AU042966		EST	
AW556484		EST	
BG063092		EST	Transcribed locus
BG064514		EST	
BG064695		EST	Transcribed locus
BG065593		EST	
BG065670		EST	
BG065839		EST	
BG066008		EST	
BG066090		EST	
BG066122		EST	
BG066345		EST	
BG066371		EST	
BG066550		EST	
BG066598		EST	
BG066821		EST	
BG067146		EST	
BG068097		EST	
BG068461		EST	
BG068472		EST	
BG068784		EST	
BG069091		EST	
BG069113		EST	
BG069545		EST	
BG070548		EST	Transcribed locus
BG070556		EST	
BG070663		EST	
BG070930		EST	Transcribed locus
BG071376		EST	
BG071862		EST	
BG072400		EST	

BG075634		EST
BG079181		EST
BG081451		EST
BG083198		EST
BG083989		EST
BQ550180		EST
BQ550186		EST
BQ550353		EST
BQ550502		EST
BQ551838		EST
BQ552150		EST

TableS2aP5. Gene lists of mouse CNS age-related gene expression pattern 5

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.

	down-regulated
	up-regulated
	no change

Acc	Cor-p5	Hip-p5	Cer-p5	Str-p5	SC-p5	Symbol	Name
BG071669						EST	
BG074411						Scarb2	Scavenger receptor class B, member 2
AU041764						Ssr1	Signal sequence receptor, alpha
BG084523						EST	
BG069202						Flad1	RFad1, flavin adenine dinucleotide synthetase, homolog (yeast)
AW538653						EST	
BG063123						EST	
BG084482						1110049F12Rik	RIKEN cDNA 1110049F12 gene
BG066645						2410042D21Rik	RIKEN cDNA 2410042D21 gene
C80870						2610207I05Rik	RIKEN cDNA 2610207I05 gene
BG086172						Abcd4	ATP-binding cassette, sub-family D (ALD), member 4
C78625						Abpe	Androgen binding protein epsilon
BQ550902						Arf4	ADP-ribosylation factor 4
BG083148						AU015228	Expressed sequence AU015228
BG070530						C430003P19Rik	RIKEN cDNA C430003P19 gene
BG066902						C530030P08Rik	RIKEN cDNA C530030P08 gene
BG065908						C77370	Expressed sequence C77370
BG066514						C79445	Expressed sequence C79445
BG066158						Car12	Carbonic anhydrase 12
BQ550574						Cask	family)
BG079699						Cct4	Chaperonin subunit 4 (delta)
BG079442						Cnn2	Calponin 2
BG066227						Cul1	Cullin 1
BG078810						Cycc	Cytochrome c, somatic
BG070630						D630040G17Rik	RIKEN cDNA D630040G17 gene
AU040741						Dhx57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57
BG086487						E2f6	E2F transcription factor 6

BG072115		Fbxo10	F-box protein 10
BG073057		Gc	Group specific component
BG065591		Ggnbp2	Gametogenetin binding protein 2
BG087977		Gnaq	Guanine nucleotide binding protein, alpha q polypeptide
BG084492		Ikzf4	IKAROS family zinc finger 4
BG082794		lxl	Intersex-like (Drosophila)
BQ550722		Las1l	LAS1-like (S. cerevisiae)
BG073494		Leprel2	Leprecan-like 2
BG068302		Magi2	containing 2
BG078870		Mkrn1	Makorin, ring finger protein, 1
BG077638		Mrpl19	Mitochondrial ribosomal protein L19
BG079485		Ndufa10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10
BG066540		Nlk	Nemo like kinase
BG071667		Pgm2l1	Phosphoglucomutase 2-like 1
BG066925		Pkd1l3	Polycystic kidney disease 1 like 3
BG075444		Polr2j	Polymerase (RNA) II (DNA directed) polypeptide J
BG067048		Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform
BQ550958		Prpf18	PRP18 pre-mRNA processing factor 18 homolog (yeast)
BG065852		Rcor1	REST corepressor 1
BG078875		Rogdi	Rogdi homolog (Drosophila)
BG079733		Rrm2	Ribonucleotide reductase M2
BQ551136		Slc9a3r1	regulator 1
BG069386		Slco4c1	Solute carrier organic anion transporter family, member 4C1
BQ552244		Snap23	Synaptosomal-associated protein 23
BG081012		Snrpb2	U2 small nuclear ribonucleoprotein B
AU040496		Sp100	Nuclear antigen Sp100
BG069385		Stat2	Signal transducer and activator of transcription 2
BG066250		Tbx20	T-box 20
BQ550368		Tcfap2c	Transcription factor AP-2, gamma
BG081076		Tcl1	T-cell lymphoma breakpoint 1
BQ550610		Tmco1	Transmembrane and coiled-coil domains 1
BG073784		Tmem19	Transmembrane protein 19
BG066559		Tnks1bp1	Tankyrase 1 binding protein 1
BG066239		Tnks2	polymerase 2
BQ551761		Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
BG069853		Uqcrc1	Ubiquinol-cytochrome c reductase core protein 1

BQ551117		Wee1	Wee 1 homolog (<i>S. pombe</i>)
BG081054		Xlr3b	X-linked lymphocyte-regulated 3B
BG069830		Zdhhc7	Zinc finger, DHHC domain containing 7
BG066657		Zfand3	Zinc finger, AN1-type domain 3
BG065559		EST	
BG065566		EST	gossypii]
BG065577		BG065577	
BG065889		BG065889	
BG066241		BG066241	
BG066550		BG066550	
BG066582		BG066582	
BG066623		BG066623	
BG066633		BG066633	
BG066659		BG066659	
BG066873		BG066873	
BG066882		BG066882	
BG066901		BG066901	
BG067922		BG067922	
BG068730		BG068730	
BG069110		BG069110	
BG070182		BG070182	
BG070231		BG070231	
BG070755		BG070755	
BG070974		BG070974	
BG074974		BG074974	
BG084924		BG084924	
BQ550394		BQ550394	
BQ550555		BQ550555	
BQ550923		BQ550923	
BQ552246		BQ552246	
BQ550412		1110018G07Rik	RIKEN cDNA 1110018G07 gene
BG086258		2700060E02Rik	RIKEN cDNA 2700060E02 gene
BG065860		BC013481	CDNA sequence BC013481
BG086240		Cnbp	Cellular nucleic acid binding protein
BG073493		Dnmt3a	DNA methyltransferase 3A
BG063515		Fth1	Ferritin heavy chain 1

BG067932		Glul	Glutamate-ammonia ligase (glutamine synthetase)
BG077751		Phb	Prohibitin
BG066380		Trip12	Thyroid hormone receptor interactor 12
BG085556		Wwp1	WW domain containing E3 ubiquitin protein ligase 1
AW548438		EST	
AW551760		EST	
BG071491		EST	
BG073826		EST	Transcribed locus
BG074316		EST	
BG085008		EST	
BG072609		Amotl1	Angiomotin-like 1
BG082456		Dnajc8	DnaJ (Hsp40) homolog, subfamily C, member 8
BG086348		Ndufb10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10
BG072673		Nfatc4	dependent 4
BG085724		Pabpn1	Poly(A) binding protein, nuclear 1
BG085762		Prpf31	PRP31 pre-mRNA processing factor 31 homolog (yeast)
BG072729		Rbm12b	RNA binding motif protein 12B
BG086013		Rnf10	Ring finger protein 10
BG075210		Ss18l1	Synovial sarcoma translocation gene on chromosome 18-like 1
AW557547		EST	
BG065963		EST	
BG071454		EST	
BG073099		EST	
BG073995		EST	
BI076595		EST	
BG076565		2610204K14Rik	RIKEN cDNA 2610204K14 gene
BG073827		5730407K14Rik	RIKEN cDNA 5730407K14 gene
BG063659		Ap1s1	Adaptor protein complex AP-1, sigma 1
BG072887		Btbd9	BTB (POZ) domain containing 9
BG087321		Lins2	Lines homolog 2 (Drosophila)
BG088911		Pak2	P21 (CDKN1A)-activated kinase 2
BG077310		Pdim2	PDZ and LIM domain 2
BG088924		Phkb	Phosphorylase kinase beta
BG077025		Pnn	Pinin
BG063946		Rest	RE1-silencing transcription factor
BG076525		Rnf2	Ring finger protein 2

BG075383		Sfrs2ip	Splicing factor, arginine/serine-rich 2, interacting protein
AW547223		EST	
AW553453		EST	
BG087807		EST	
BG078465		Aof2	Amine oxidase (flavin containing) domain 2
BG077878		Cald1	Caldesmon 1
BG066256		Clcn1	Chloride channel 1
BG069401		Csnk2a2	Casein kinase 2, alpha prime polypeptide
BG081063		Cybb	Cytochrome b-245, beta polypeptide
BG067879		D330050I23Rik	RIKEN cDNA D330050I23 gene
BG076418		Elac2	ElaC homolog 2 (E. coli)
BG067311		Fbxw17	F-box and WD-40 domain protein 17
BG064427		Fkbp15	FK506 binding protein 15
BG064828		Gabpb2	GA repeat binding protein, beta 2
BG068026		Hel308	Helicase, mus308-like (Drosophila)
BG066934		Kalrn	Kalirin, RhoGEF kinase
BG081236		Lats1	Large tumor suppressor
BG082425		Mllt10	homolog (Drosophila)
BG080379		Nars	Asparaginyl-tRNA synthetase
BG068330		Nol8	Nucleolar protein 8
BG078193		Pam	Peptidylglycine alpha-amidating monooxygenase
BG068715		Phf21a	PHD finger protein 21A
BG066673		Phgdh	3-phosphoglycerate dehydrogenase
BG079475		Pik4ca	Phosphatidylinositol 4-kinase, catalytic, alpha polypeptide
BG080913		Pole3	Polymerase (DNA directed), epsilon 3 (p17 subunit)
BG081020		Prr13	Proline rich 13
BG063070		Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
BG083038		Rnf20	Ring finger protein 20
BG076676		Rps2	Ribosomal protein S2
BG081064		Secisbp2	SECIS binding protein 2
BG068288		Slco1b2	Solute carrier organic anion transporter family, member 1b2
BG063497		Stam2	motif) 2
BG064631		Timeless	Timeless homolog (Drosophila)
BG067300		Tinag	Tubulointerstitial nephritis antigen
BG064830		Tubb2c	Tubulin, beta 2c
BG076940		Wdr3	WD repeat domain 3

C77369		Zdhhc6	Zinc finger, DHHC domain containing 6
BG064729		EST	
BG065585		EST	
BG066267		EST	
BG066678		EST	protein XP_906965 [Mus musculus]
BG067176		EST	
BG067221		EST	
BG067278		EST	
BG067877		EST	
BG067898		EST	
BG067995		EST	Transcribed locus
BG069024		EST	
BG069108		EST	
BG078136		EST	
BG082357		EST	
C78519		EST	
C85808		EST	
C87682		EST	
BG077302		Atf7ip	Activating transcription factor 7 interacting protein
BG068096		C230040D10Rik	RIKEN cDNA C230040D10 gene
BG067933		Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BG077424		Dync1li2	Dynein, cytoplasmic 1 light intermediate chain 2
BG079486		Lrrc59	Leucine rich repeat containing 59
BG064287		Ncl	Nucleolin
BG063969		Ppap2b	Phosphatidic acid phosphatase type 2B
BG064583		Tegt	Testis enhanced gene transcript
BG064502		Utp15	UTP15, U3 small nucleolar ribonucleoprotein, homolog (yeast)
BG079790		Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
AW538230		EST	
AW538521		EST	
AW538620		EST	
BG064219		EST	
BG067385		EST	
BG068412		EST	
C78770		EST	
BG072760		Hba-a1	Hemoglobin alpha, adult chain 1

BG087018		Rpl37	Ribosomal protein L37
BG073429		Slc2a4	Solute carrier family 2 (facilitated glucose transporter), member 4
BG072750		Tgfb1	Transforming growth factor, beta induced
AW539320		EST	
C88129		EST	
AU043423		Ankhd1	Ankyrin repeat and KH domain containing 1
BG068393		Ccdc52	Coiled-coil domain containing 52
AW547680		D4Ertd22e	DNA segment, Chr 4, ERATO Doi 22, expressed
BG084444		Eef1e1	Eukaryotic translation elongation factor 1 epsilon 1
BG078883		Eif2b5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon
BG065697		EST	
BG069123		EST	
BG070315		EST	
BG070808		EST	
BG076222		EST	
BQ552232			6-Mar Membrane-associated ring finger (C3HC4) 6
BG075135		1110007L15Rik	RIKEN cDNA 1110007L15 gene
BG075147		2010311D03Rik	RIKEN cDNA 2010311D03 gene
BG073140		Cd8b1	CD8 antigen, beta chain 1
BG072331		Clstn1	Calsyntenin 1
BG088576		Ddx27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27
BG075159		Gls	Glutaminase
BG076025		Kcnk2	Potassium channel, subfamily K, member 2
BQ552413		Lhfpl2	Lipoma HMGIC fusion partner-like 2
BG075103		Mov10	Moloney leukemia virus 10
BG087589		Mtch1	Mitochondrial carrier homolog 1 (C. elegans)
BG080731		Nab1	Ngfi-A binding protein 1
BG088153		Piwi2	Piwi-like homolog 2 (Drosophila)
BG082377		Prpf38b	B
BG080766		Rwdd4a	RWD domain containing 4A
BG088317		Shc1	Src homology 2 domain-containing transforming protein C1 associated factor
BG082016		Taf7	
BG080714		Zfp708	Zinc finger protein 708
BG072492		EST	
BG073835		EST	
BG075071		EST	Transcribed locus

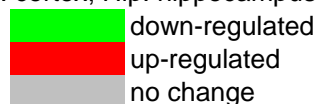
BG072619	1190002N15Rik	RIKEN cDNA 1190002N15 gene
BG072777	1810009A15Rik	RIKEN cDNA 1810009A15 gene
BG072618	2310051F07Rik	RIKEN cDNA 2310051F07 gene
AU040786	2410008K03Rik	RIKEN cDNA 2410008K03 gene
BG072797	2610002J23Rik	RIKEN cDNA 2610002J23 gene
BQ550329	2610030H06Rik	RIKEN cDNA 2610030H06 gene
BG073362	3100004P22Rik	RIKEN cDNA 3100004P22 gene
AW544088	5730449L18Rik	RIKEN cDNA 5730449L18 gene
BG073481	6720475J19Rik	RIKEN cDNA 6720475J19 gene
BG073315	9130023D20Rik	RIKEN cDNA 9130023D20 gene
BG076127	A330009N23Rik	RIKEN cDNA A330009N23 gene
BG073405	AA673488	Expressed sequence AA673488
BG073394	Add3	Adducin 3 (gamma)
BG085480	Agriin	Agriin
BG077650	Ap2a1	Adaptor protein complex AP-2, alpha 1 subunit
BG085506	Arhgef19	Rho guanine nucleotide exchange factor (GEF) 19
BG072959	Cacnb3	Calcium channel, voltage-dependent, beta 3 subunit
BG072807	Car8	Carbonic anhydrase 8
BG072723	Ccdc102a	Coiled-coil domain containing 102A
BG072661	Cdc23	CDC23 (cell division cycle 23, yeast, homolog)
BG086695	Cluap1	Clusterin associated protein 1
BG085434	Crebzf	CREB/ATF bZIP transcription factor
BG086320	Cxcl12	Chemokine (C-X-C motif) ligand 12
BG073492	D0H4S114	DNA segment, human D4S114
BG073307	Ddx54	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54
BG073959	Eef2	Eukaryotic translation elongation factor 2
BG075252	Egln1	EGL nine homolog 1 (C. elegans)
BG074119	Eif3s8	Eukaryotic translation initiation factor 3, subunit 8
BG086148	Elp4	Elongation protein 4 homolog (S. cerevisiae)
BG074856	Fastk	Fas-activated serine/threonine kinase
BG086054	Fstl1	Follistatin-like 1
BG072833	Gnpda2	Glucosamine-6-phosphate deaminase 2
AW547240	Gramd1a	GRAM domain containing 1A
BG072757	Gspt1	G1 to S phase transition 1
BG075940	Gtlf3b	Gene trap locus F3b
AU041598	H2-K1	Histocompatibility 2, K1, K region

BG085433		Hbb-b1	Hemoglobin, beta adult major chain
BG085427		Hmgb2	High mobility group box 2
BG064511		Ints5	Integrator complex subunit 5
BG072685		Mns1	Meiosis-specific nuclear structural protein 1
BG077818		Mt1	Metallothionein 1
BG063925		Mt2	Metallothionein 2
BG073296		Ncam2	Neural cell adhesion molecule 2
BG074233		Ndfip1	Nedd4 family interacting protein 1
BG073415		Nedd4	gene 4
BG071356		Nf1	Neurofibromatosis 1
BG085596		Npc2	Niemann Pick type C2
BG072813		Opa1	Optic atrophy 1 homolog (human)
BG087899		Pdgfa	Platelet derived growth factor, alpha
BG064375		Phactr1	Phosphatase and actin regulator 1
BG087909		Phka2	Phosphorylase kinase alpha 2
BG072843		Pnpt1	Polyribonucleotide nucleotidyltransferase 1
BG072746		Psmd7	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
BG087931		Rhoa	Ras homolog gene family, member A
BG075372		Rpa2	Replication protein A2
BG085647		Rpl23a	Ribosomal protein L23a
BG073438		Rpl38	Ribosomal protein L38
BG072819		Rpsa	Ribosomal protein SA
BG072662		Runx1	Runt related transcription factor 1
BG085555		Sec23ip	Sec23 interacting protein
BG086781		Setdb1	SET domain, bifurcated 1
BG073339		Sfrs5	Splicing factor, arginine/serine-rich 5 (SRp40, HRS)
AW539785		Sh3bp5l	SH3 binding domain protein 5 like
BG085411		Slbp	Stem-loop binding protein
BG085656		Smc1a	Structural maintenance of chromosomes 1A
BG072734		Tcf25	Transcription factor 25 (basic helix-loop-helix)
AW557486		Tdrd9	Tudor domain containing 9
BG087942		Tfdp1	Transcription factor Dp 1
BG085629		Tfip11	Tuftelin interacting protein 11
AW553913		Tinagl	Tubulointerstitial nephritis antigen-like
BG075363		Tmem64	Transmembrane protein 64
AW550270		Tnc	Tenascin C

BG075295		Traf3ip1	TNF receptor-associated factor 3 interacting protein 1
BG086230		Traf7	Tnf receptor-associated factor 7
BG087363		Vps45	Vacuolar protein sorting 45 (yeast)
BG086084		Wnt4	Wingless-related MMTV integration site 4
BG073328		Xrcc4	cells 4
BG076045		Zbed3	Zinc finger, BED domain containing 3
AW544782		EST	
AW546571		EST	Transcribed locus
AW550445		EST	
AW558132		EST	
BG063767		EST	
BG064209		EST	
BG070115		EST	
BG072733		EST	
BG072745		EST	
BG073317		EST	
BG074049		EST	
BG074259		EST	
BG074646		EST	
BG074788		EST	
BG075263		EST	
BG075339		EST	
BI076837		EST	

TableS2aP6. Gene lists of mouse CNS age-related gene expression pattern 6

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.



Acc	Cor-p6	Hip-p6	Cer-p6	Str-p6	SC-p6	Symbol	Name
BG071280						Vldlr	Very low density lipoprotein receptor
BG067592						Ncor2	Nuclear receptor co-repressor 2
AW538270						EST	
AW544088						5730449L18Rik	RIKEN cDNA 5730449L18 gene
BG088919						Glg1	Golgi apparatus protein 1
AW545215						Ykt6	YKT6 homolog (S. Cerevisiae)
AW538365						EST	
BG080227						Csrp2bp	Cysteine and glycine-rich protein 2 binding protein
BG080710						Eef2	Eukaryotic translation elongation factor 2
BG063381						Rnpep	Arginyl aminopeptidase (aminopeptidase B)
BG080059						Senp6	SUMO/sentrin specific peptidase 6
AW540988						EST	
BG078581						Ints3	Integrator complex subunit 3
BG064029						Morf4l1	Mortality factor 4 like 1
AW551702						A230048G03Rik	RIKEN cDNA A230048G03 gene
BG065924						Akap2	A kinase (PRKA) anchor protein 2
BQ550885						Btaf1	(Mot1 homolog, S. cerevisiae)
BG084134						Chst10	Carbohydrate sulfotransferase 10
BG071624						Defb8	Defensin beta 8
BG072272						LOC629750	Similar to ubiquitin A-52 residue ribosomal protein fusion product 1
BQ551162						Tgfr1	Transforming growth factor, beta receptor I
C81011						Tmem132d	Transmembrane protein 132D
BG084284						Vamp8	Vesicle-associated membrane protein 8
AW548741						EST	
BG071263						EST	
BG071273						EST	
BG071600						EST	Transcribed locus

BG086520		1110004F10Rik	RIKEN cDNA 1110004F10 gene
BG084307		Apddd1	Adenomatosis polyposis coli down-regulated 1
BG073427		Nat12	N-acetyltransferase 12
BG086250		Plxna4	Plexin A4
BG087432		Soat1	Sterol O-acyltransferase 1
AU041552		EST	
AW552320		EST	
BG085155		Gaa	Glucosidase, alpha, acid
BG062985		Srrm2	Serine/arginine repetitive matrix 2
BG084201		St8sia2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2
BQ550176		Top1	Topoisomerase (DNA) I
BG065746		Tssc1	Tumor suppressing subtransferable candidate 1
BG066782		EST	
BG068069		EST	
BG070566		EST	ubiquitin specific protease 34 [Rattus norvegicus]
BG088896		2310047M15Rik	RIKEN cDNA 2310047M15 gene
BG084861		2700050L05Rik	RIKEN cDNA 2700050L05 gene
BG076192		2810021B07Rik	RIKEN cDNA 2810021B07 gene
AW556296		4121402D02Rik	RIKEN cDNA 4121402D02 gene
BG077031		4632428N05Rik	RIKEN cDNA 4632428N05 gene
BG076170		4932417I16Rik	RIKEN cDNA 4932417I16 gene
BG068349		6430706D22Rik	RIKEN cDNA 6430706D22 gene
BG076134		9330120H11Rik	RIKEN cDNA 9330120H11 gene
BG078031		Abcf1	ATP-binding cassette, sub-family F (GCN20), member 1
BG076190		AI462493	Expressed sequence AI462493
BG088685		Als2	Amyotrophic lateral sclerosis 2 (juvenile) homolog (human)
BG077043		Aph1a	Anterior pharynx defective 1a homolog (C. elegans)
AW544549		Appbp2	Amyloid beta precursor protein (cytoplasmic tail) binding protein 2
BG075349		Atxn7	Ataxin 7
BG086907		C80913	Expressed sequence C80913
BG088653		Cdc42se1	CDC42 small effector 1
BG085684		Edc3	Enhancer of mRNA decapping 3 homolog (S. cerevisiae)
BG076147		Emilin3	Elastin microfibril interfacier 3
BG074239		Exoc6b	Exocyst complex component 6B
BG076054		Fgfr1	Fibroblast growth factor receptor 1
BG078813		Fsd1	Fibronectin type 3 and SPRY domain-containing protein

AW539304	Fyttd1	Forty-two-three domain containing 1
BQ551676	Gab1	Growth factor receptor bound protein 2-associated protein 1
BG063693	Gas5	Growth arrest specific 5
BG069204	Gdap2	Ganglioside-induced differentiation-associated-protein 2
AW538113	Grb2	Growth factor receptor bound protein 2
BG088340	Grina	protein 1 (glutamate binding)
BG062947	H2afj	H2A histone family, member J
BG073509	Hmbox1	Homeobox containing 1
BG077732	Hmox1	Heme oxygenase (decycling) 1
BG075403	Hoxc9	Homeo box C9
BG077623	Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1
BG076144	Il10rb	Interleukin 10 receptor, beta
AW543967	Itfg2	Integrin alpha FG-GAP repeat containing 2
C79029	Lrrc16	Leucine rich repeat containing 16
AW539214	Mars2	Methionine-tRNA synthetase 2 (mitochondrial)
BG077730	Mrpl38	Mitochondrial ribosomal protein L38
BG076160	Ms4a6d	Membrane-spanning 4-domains, subfamily A, member 6D
BG076133	Nme6	Expressed in non-metastatic cells 6, protein
BG076033	Nr3c2	Nuclear receptor subfamily 3, group C, member 2
BG086925	Nras	Neuroblastoma ras oncogene
AW552556	Osbpl8	Oxysterol binding protein-like 8
BG087474	Pcolce	Procollagen C-endopeptidase enhancer protein
BG088662	Pex12	Peroxisomal biogenesis factor 12
AW539318	Plf	Proliferin
AW556297	Ppp3ca	Protein phosphatase 3, catalytic subunit, alpha isoform
BG064693	Psma1	Proteasome (prosome, macropain) subunit, alpha type 1
BG076094	Rab11fip2	RAB11 family interacting protein 2 (class I)
BG077041	Rap1gap	Rap1 GTPase-activating protein
BG088740	Sart3	Squamous cell carcinoma antigen recognized by T-cells 3
BG076146	Scamp5	Secretory carrier membrane protein 5
BG076183	Smc1b	Structural maintenance of chromosomes 1B
BG072876	Spg7	Spastic paraplegia 7 homolog (human)
BG088728	Strap	Serine/threonine kinase receptor associated protein
BG088835	Supt6h	Suppressor of Ty 6 homolog (S. cerevisiae)
BG088380	Syce1	Synaptonemal complex central element protein 1
BG076157	Sycp1	Synaptonemal complex protein 1

BG076124		Sycp3	Synaptonemal complex protein 3
BG075062		Tars	Threonyl-tRNA synthetase
BG075406		Tex10	Testis expressed gene 10
BG076143		Tex9	Testis expressed gene 9
BG082196		Tiparp	TCDD-inducible poly(ADP-ribose) polymerase
BG087081		Tmem59	Transmembrane protein 59
AW552470		Tpd52l2	Tumor protein D52-like 2
BG063720		Tram1	Translocating chain-associating membrane protein 1
BG086643		Ube2i	Ubiquitin-conjugating enzyme E2I
BG086935		Usp3	Ubiquitin specific peptidase 3
BG075806		Xrcc6	cells 6
AW539280		Yif1a	Yip1 interacting factor homolog A (<i>S. cerevisiae</i>)
BG076083		Zc3h13	Zinc finger CCCH type containing 13
BG086644		Zfp289	Zinc finger protein 289
BG088420		Zfp592	Zinc finger protein 592
AW536084		EST	
AW536190		EST	
AW536243		EST	
AW536804		EST	
AW537455		EST	
AW537634		EST	
AW538486		EST	
AW539112		EST	
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AW540995		EST	
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AW542467		EST	
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AW543815		EST	
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AW544006		EST	
AW544036		EST	
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AW545291		EST	
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AW555400		EST	
AW556284		EST	
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BG075513		EST	
BG076136		EST	Transcribed locus
BG076145		EST	
BG076171		EST	
BG088709		EST	
BI076469		EST	
BI076559		EST	
BG069453		9530010C24Rik	RIKEN cDNA 9530010C24 gene
BG080292		AI481105	Expressed sequence AI481105
BG067933		Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BG067580		Myo1d	Myosin ID
AU022584		Smc6	Structural maintenance of chromosomes 6
BG066630		Tpk1	Thiamine pyrophosphokinase
AW538269		EST	
BG066911		EST	
BG067568		EST	Transcribed locus
BG067639		EST	Transcribed locus

BG067651		EST
C78482		EST
BG078425		1110014N23Rik RIKEN cDNA 1110014N23 gene
BG077907		1810011O16Rik RIKEN cDNA 1810011O16 gene
BG063434		2010315L10Rik RIKEN cDNA 2010315L10 gene
BG080883		3830406C13Rik RIKEN cDNA 3830406C13 gene
BG069307		4631424J17Rik RIKEN cDNA 4631424J17 gene
BG077589		4930548G07Rik RIKEN cDNA 4930548G07 gene
BG063260		4933437F05Rik RIKEN cDNA 4933437F05 gene
BG063187		9230114K14Rik RIKEN cDNA 9230114K14 gene
BG063015		9430023L20Rik RIKEN cDNA 9430023L20 gene
BG067452		9430053O09Rik RIKEN cDNA 9430053O09 gene
BG077905		AA881470 EST AA881470
BG077011		Aaas Achalasia, adrenocortical insufficiency, alacrimia
BG067888		Aak1 AP2 associated kinase 1
BG065432		Abcf3 ATP-binding cassette, sub-family F (GCN20), member 3
C78625		Abpe Androgen binding protein epsilon
AW538652		Acly ATP citrate lyase
BG063815		Acot9 Acyl-CoA thioesterase 9
BG063870		Actb Actin, beta, cytoplasmic
BG077400		Agpat1 acid acyltransferase, alpha)
BG077350		Ahcy S-adenosylhomocysteine hydrolase
BG080412		Ak7 Adenylate kinase 7
BG082884		Akr1c13 Aldo-keto reductase family 1, member C13
BG063209		Akt1s1 AKT1 substrate 1 (proline-rich)
BG063937		Alad Aminolevulinate, delta-, dehydratase
BG064654		Alg5 phosphate beta-glucosyltransferase)
C85923		Alms1 Alstrom syndrome 1 homolog (human)
BG065567		Ankrd17 Ankyrin repeat domain 17
BG077192		Ankrd50 Ankrin repeat domain 50
BG077331		Anln Anillin, actin binding protein (scraps homolog, Drosophila)
BG076932		Anxa1 Annexin A1
BG077650		Ap2a1 Adaptor protein complex AP-2, alpha 1 subunit
C88059		Aph1c Anterior pharynx defective 1c homolog (C. elegans)
BG068041		Arih1 1 (Drosophila)
BG076736		Arl5a ADP-ribosylation factor-like 5A

BG063662		Arpc2	Actin related protein 2/3 complex, subunit 2
AW539588		Arpc4	Actin related protein 2/3 complex, subunit 4
C86170		Atf2	Activating transcription factor 2
AW539206		Atg7	Autophagy-related 7 (yeast)
BG077733		Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
BG077252		Atp6v1b2	ATPase, H ⁺ transporting, lysosomal V1 subunit B2
BG078612		Atpaf2	ATP synthase mitochondrial F1 complex assembly factor 2
BG068814		AU023871	Expressed sequence AU023871
BG077551		B4galt3	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3
BG078216		BC003940	CDNA sequence BC003940
BG064074		Bcap31	B-cell receptor-associated protein 31
BG078694		Bckdk	Branched chain ketoacid dehydrogenase kinase
BG064920		Bex1	Brain expressed gene 1
BG069214		Birc3	Baculoviral IAP repeat-containing 3
BG077446		Braf	Braf transforming gene
BG077363		Brms1	Breast cancer metastasis-suppressor 1
BG064376		Bub3	Budding uninhibited by benzimidazoles 3 homolog (<i>S. cerevisiae</i>)
BG077280		Bxdc2	Brix domain containing 2
BG068466		C130039O16Rik	RIKEN cDNA C130039O16 gene
C78859		C78859	Expressed sequence C78859
AW544560		Calm1	Calmodulin 1
BG067546		Caskin2	Cask-interacting protein 2
AA409074		Ccdc101	Coiled-coil domain containing 101
BG064532		Ccdc58	Coiled-coil domain containing 58
BG066467		Cdh13	Cadherin 13
BG064644		Ceacam9	CEA-related cell adhesion molecule 9
BG069669		Cep27	Centrosomal protein 27
AA408840		Cflar	CASP8 and FADD-like apoptosis regulator
BG068213		Chd11	Chromodomain helicase DNA binding protein 1-like
BG063027		Cited2	terminal domain, 2
BG079988		Ckmt1	Creatine kinase, mitochondrial 1, ubiquitous
BG063927		Clic4	Chloride intracellular channel 4 (mitochondrial)
BG076923		Clpp	homolog (<i>E. coli</i>)
BG064000		Cltc	Clathrin, heavy polypeptide (Hc)
BG063345		Cmtm3	CKLF-like MARVEL transmembrane domain containing 3
BG065804		Col22a1	Collagen, type XXII, alpha 1

BG067260	Cox4nb	COX4 neighbor
BG080272	Cpeb3	Cytoplasmic polyadenylation element binding protein 3
BG078625	Cpsf2	Cleavage and polyadenylation specific factor 2
BG069122	Cs	Citrate synthase
BG080623	Ctsc	Cathepsin C
BG082948	Cul1	Cullin 1
BG067510	Cxxc6	CXXC finger 6
BG076814	Cyc1	Cytochrome c-1
BG065253	Cyfp1	Cytoplasmic FMR1 interacting protein 1
BG082508	D2Ert750e	DNA segment, Chr 2, ERATO Doi 750, expressed
BG077300	Dcakd	Dephospho-CoA kinase domain containing
BG080329	Dcamk12	Doublecortin and CaM kinase-like 2
BG068568	Dcamk13	Doublecortin and CaM kinase-like 3
BG065404	Dcbld2	Discoidin, CUB and LCCL domain containing 2
BG063457	Ddi2	DNA-damage inducible protein 2
BG063739	Deb1	Differentially expressed in B16F10 1
BG076879	Dhx8	DEAH (Asp-Glu-Ala-His) box polypeptide 8
BG063067	Dido1	Death inducer-obliterator 1
BG063488	Dscr3	Down syndrome critical region gene 3
BG066834	E030041M21Rik	RIKEN cDNA E030041M21 gene
BG076471	E2f8	E2F transcription factor 8
BG077341	Eef1g	Eukaryotic translation elongation factor 1 gamma
BG063057	Efna1	Ephrin A1
BG064453	Ehd4	EH-domain containing 4
BG063829	Eif2a	Eukaryotic translation initiation factor 2a
AW539204	Eif4g3	Eukaryotic translation initiation factor 4 gamma, 3
BG077800	Entpd5	Ectonucleoside triphosphate diphosphohydrolase 5
BG077770	Exosc1	Exosome component 1
BG076800	Exosc5	Exosome component 5
BG066491	Fhod3	Formin homology 2 domain containing 3
BG080743	Fmn2	Formin 2
BG064040	Fmr1nb	Fragile X mental retardation 1 neighbor
BG080586	Frrs1	Ferric-chelate reductase 1
AW539348	Fuca2	Fucosidase, alpha-L- 2, plasma
BG067419	Gadd45g	Growth arrest and DNA-damage-inducible 45 gamma
BG068200	Gata6	GATA binding protein 6

BG063176		Gjb3	Gap junction membrane channel protein beta 3
BG067923		Gm1965	Gene model 1965, (NCBI)
BG063237		Gnaq	Guanine nucleotide binding protein, alpha q polypeptide
AW545189		Grin1a	Glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A
BG066979		Grtp1	GH regulated TBC protein 1
BG081442		Gtpbp4	GTP binding protein 4
BG067430		H3f3b	H3 histone, family 3B
BG063859		Hcfc1	Host cell factor C1
BG063068		Hdlbp	High density lipoprotein (HDL) binding protein
BG080248		Hectd1	HECT domain containing 1
BG068108		Heph1	Hephaestin-like 1
BG062969		Hnrpd1	Heterogeneous nuclear ribonucleoprotein D-like
BG063830		Htf9c	Hpall tiny fragments locus 9c
BG081213		Idh2	Isocitrate dehydrogenase 2 (NADP+), mitochondrial
AA408993		Il13ra1	Interleukin 13 receptor, alpha 1
BG077262		Imp4	IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast)
AA408208		Ipmk	Inositol polyphosphate multikinase
BG069704		Isg20l1	Interferon stimulated exonuclease gene 20-like 1
BG067332		Itga9	Integrin alpha 9
BG079495		Josd3	Josephin domain containing 3
BG066980		Kif22	Kinesin family member 22
BG064062		Klf4	Kruppel-like factor 4 (gut)
BG080722		Klf6	Kruppel-like factor 6
C81600		Lats1	Large tumor suppressor
BG066801		LOC624424	Similar to poly(A) binding protein, cytoplasmic 4 isoform 1
BG069144		Lrrc7	Leucine rich repeat containing 7
BG068212		Lrrc8c	Leucine rich repeat containing 8 family, member C
AW536733		Lyst	Lysosomal trafficking regulator
BG064470		Magi1	containing 1
BG064189		Mapkapk5	MAP kinase-activated protein kinase 5
BG082602		Mark3	MAP/microtubule affinity-regulating kinase 3
BG064075		Mat2a	Methionine adenosyltransferase II, alpha
BG077781		Mbnl3	Muscleblind-like 3 (Drosophila)
BG080359		Mdm4	Transformed mouse 3T3 cell double minute 4
BG063791		Mib1	Mindbomb homolog 1 (Drosophila)
BG063049		Milt1	homolog (Drosophila)

AW541504	Mmp9	Matrix metallopeptidase 9
BG077638	Mrpl19	Mitochondrial ribosomal protein L19
BG064572	Mrpl28	Mitochondrial ribosomal protein L28
BG063751	Mrps9	Mitochondrial ribosomal protein S9
BG077818	Mt1	Metallothionein 1
AW538327	Mtdh	Metadherin
BG069750	Mthfr	5,10-methylenetetrahydrofolate reductase
BG076482	Mum1	Melanoma associated antigen (mutated) 1
BG064278	Nap111	Nucleosome assembly protein 1-like 1
BG068017	Ncoa1	Nuclear receptor coactivator 1
BG079485	Ndufa10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10
BG076562	Ndufb7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7
BG076983	Necap2	NECAP endocytosis associated 2
AA409376	Nfya	Nuclear transcription factor-Y alpha
BG066937	Npr3	Natriuretic peptide receptor 3
BG067058	Nsd1	Nuclear receptor-binding SET-domain protein 1
BG077110	Nup153	Nucleoporin 153
BG077817	Nxf1	Nuclear RNA export factor 1 homolog (<i>S. cerevisiae</i>)
BG077570	Oaz2	Ornithine decarboxylase antizyme 2
BG067047	Ogt	acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
BG081674	Osbpl3	Oxysterol binding protein-like 3
BG063876	Pabpc1	Poly A binding protein, cytoplasmic 1
BG077937	Pak1ip1	PAK1 interacting protein 1
BG077121	Pcmt1	Protein-L-isoaspartate (D-aspartate) O-methyltransferase 1
BG064247	Pdcd2l	Programmed cell death 2-like
BG065306	Perp	PERP, TP53 apoptosis effector
BG078897	Phf12	PHD finger protein 12
BG068755	Phr1	Pam, highwire, rpm 1
BG064353	Pin1	Protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1
AA408069	Plac8	Placenta-specific 8
BG063822	Plekhc1	domain) member 1
BG078885	Plk4	Polo-like kinase 4 (<i>Drosophila</i>)
BG078107	Plp2	Proteolipid protein 2
BG076915	Pole4	Polymerase (DNA-directed), epsilon 4 (p12 subunit)
BG082556	Ppil1	Peptidylprolyl isomerase (cyclophilin)-like 1
BG068154	Prdm10	PR domain containing 10

BG063156	Prkcbp1	Protein kinase C binding protein 1
BG080402	Prpsap1	Phosphoribosyl pyrophosphate synthetase-associated protein 1
BG066125	Psmas4	Proteasome (prosome, macropain) subunit, alpha type 4
BG065633	Psmb2	Proteasome (prosome, macropain) subunit, beta type 2
BG077488	Psmb4	Proteasome (prosome, macropain) subunit, beta type 4
BG077683	Psmd9	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 9
BG064342	Ptcd1	Pentatricopeptide repeat domain 1
BG066969	R3hdm1	R3H domain 1 (binds single-stranded nucleic acids)
BG080505	Rasa3	RAS p21 protein activator 3
BG066577	Rbm6	RNA binding motif protein 6
BG063048	Rbm9	RNA binding motif protein 9
BG065852	Rcor1	REST corepressor 1
BG078834	Renbp	Renin binding protein
BG080598	Rg9mtd1	RNA (guanine-9-) methyltransferase domain containing 1
BG066301	Rnf12	Ring finger protein 12
BG064110	Rnf128	Ring finger protein 128
BG078875	Rogdi	Rogdi homolog (Drosophila)
BG066735	RP23-248K2.4	Hepatitis A virus cellular receptor 1-like
BG063732	Rpl23	Ribosomal protein L23
BG077726	Rps15	Ribosomal protein S15
BG063380	Rpusd4	RNA pseudouridylate synthase domain containing 4
BG067236	Rsrc1	Arginine/serine-rich coiled-coil 1
BG080206	Scg3	Secretogranin III
BG068224	Sema3e	secreted, (semaphorin) 3E
BG076434	Sepx1	Selenoprotein X 1
BG063762	Serinc2	Serine incorporator 2
BG067375	Serinc5	Serine incorporator 5
BG063058	Sf3a2	Splicing factor 3a, subunit 2
BG065362	Sfrs11	Splicing factor, arginine/serine-rich 11
AW545127	Shroom2	Shroom family member 2
BG064643	Sigirr	Single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
BG077242	Slc35a1	Solute carrier family 35 (CMP-sialic acid transporter), member 1
BG077540	Slc35b4	Solute carrier family 35, member B4
BG063804	Slc39a14	Solute carrier family 39 (zinc transporter), member 14
AU018293	Slc5a6	member 6
BG063782	Smurf2	SMAD specific E3 ubiquitin protein ligase 2

C81302		Snap25	Synaptosomal-associated protein 25
BG067046		Son	Son cell proliferation protein
BG078928		Stmn3	Stathmin-like 3
BG077514		Stt3a	A (<i>S. cerevisiae</i>)
BG076886		Stx12	Syntaxin 12
BG077301		Stx4a	Syntaxin 4A (placental)
BG063899		Taf3	associated factor
BG076896		Tardbp	TAR DNA binding protein
BG065608		Tbl2	Transducin (beta)-like 2
BG080018		Tcf25	Transcription factor 25 (basic helix-loop-helix)
BG076966		Tgm1	Transglutaminase 1, K polypeptide
BG068131		Thsd7a	Thrombospondin, type I, domain containing 7A
BG069517		Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12
BG077271		Tomm40	Translocase of outer mitochondrial membrane 40 homolog (yeast)
BG062981		Tprkb	Tp53rk binding protein
BG077669		Trip4	Thyroid hormone receptor interactor 4
BG067035		Ttll6	Tubulin tyrosine ligase-like family, member 6
BG066180		Ttn	Titin
BG077434		Tubb5	Tubulin, beta 5
BG078001		Ube1x	Ubiquitin-activating enzyme E1, Chr X
BG081756		Ube2d2	Ubiquitin-conjugating enzyme E2D 2
BG067910		Uchl1	Ubiquitin carboxy-terminal hydrolase L1
BG068064		Ust	Uronyl-2-sulfotransferase
BG080495		Vps11	Vacuolar protein sorting 11 (yeast)
BG064501		Vps25	Vacuolar protein sorting 25 (yeast)
BG068802		Wdr25	WD repeat domain 25
BG080472		Wdr5	WD repeat domain 5
BG077263		Wdr55	WD repeat domain 55
BG063028		Wipf2	WAS/WASL interacting protein family, member 2
BG063226		X83328	EST X83328
BG065229		Ylpm1	YLP motif containing 1
BG076845		Zfp292	Zinc finger protein 292
BG068052		zfp507	Zinc finger protein 507
BG069504		Zfp568	Zinc finger protein 568
BG064571		Zfp91	Zinc finger protein 91
AA407331		EST	

AA408676		EST
AA409509		EST
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AW536180		EST
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C85922		EST	
BG073134		Arid4a	AT rich interactive domain 4A (Rbp1 like)
BG064852		EST	
BG065601		Birc1c	Baculoviral IAP repeat-containing 1c

BG078883		Eif2b5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon
BG084874		Fbxo3	F-box protein 3
BG073587		Pik3c2a	polypeptide
BG065677		Pik3r3	(p55)
BG070632		EST	
BG067289		1300013D18Rik	RIKEN cDNA 1300013D18 gene
BG071567		4933400E14Rik	RIKEN cDNA 4933400E14 gene
BQ552717		Als2	Amyotrophic lateral sclerosis 2 (juvenile) homolog (human)
BG076252		AU022870	Expressed sequence AU022870
BG071277		Ccdc15	Coiled-coil domain containing 15
BG074361		D930036F22Rik	RIKEN cDNA D930036F22 gene
BG084149		Drd1ip	Dopamine receptor D1 interacting protein
BG085740		Etv5	Ets variant gene 5
BG087589		Mtch1	Mitochondrial carrier homolog 1 (C. elegans)
BQ550195		Mtfr1	Mitochondrial fission regulator 1
BG087125		Nr0b2	Nuclear receptor subfamily 0, group B, member 2
BG071276		Pggt1b	Protein geranylgeranyltransferase type I, beta subunit
BG088153		Piwil2	Piwi-like homolog 2 (Drosophila)
BG075144		Rab11fip4	RAB11 family interacting protein 4 (class II)
BQ552754		Rabep1	Rabaptin, RAB GTPase binding effector protein 1
BG071937		Rex2	Reduced expression 2
BQ552268		S100pbp	S100P binding protein
BG078066		Stt3a	A (S. cerevisiae)
BG075092		Tbc1d8	TBC1 domain family, member 8
BG067235		Ttbk2	Tau tubulin kinase 2
BG072375		Ubx8	UBX domain containing 8
AU040400		EST	
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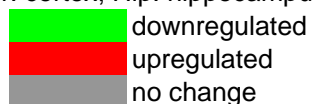
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BG086258		2700060E02Rik	RIKEN cDNA 2700060E02 gene
BG063549		9330175B10Rik	RIKEN cDNA 9330175B10 gene
AW552546		Aldh1a2	Aldehyde dehydrogenase family 1, subfamily A2
BG086158		Amotl2	Angiomotin like 2
C78001		Ap2a2	Adaptor protein complex AP-2, alpha 2 subunit
BG073437		Atp5b	subunit
BG084151		Cox4i1	Cytochrome c oxidase subunit IV isoform 1
BG068906		Cpeb1	Cytoplasmic polyadenylation element binding protein 1
BG078926		Cst3	Cystatin C
BG087383		Ctsd	Cathepsin D
BG078496		Ctsl	Cathepsin L
BG072684		D12Ert551e	DNA segment, Chr 12, ERATO Doi 551, expressed
BG086761		Dscr1	Down syndrome critical region homolog 1 (human)
BG077978		Eif1	Eukaryotic translation initiation factor 1
AW546565		Exosc7	Exosome component 7
BG063515		Fth1	Ferritin heavy chain 1
BG063873		Ftl1	Ferritin light chain 1
BG086135		Hbp1	High mobility group box transcription factor 1
BG063128		Ing1	Inhibitor of growth family, member 1
AW538243		Itga1	Integrin alpha 1
BG086046		Pcid2	PCI domain containing 2
BG076891		Pkp2	Plakophilin 2
BG077025		Pnn	Pinin
AW556719		Ppp1r10	Protein phosphatase 1, regulatory subunit 10
BG068894		Preb	Prolactin regulatory element binding
BG086073		Rala	V-ral simian leukemia viral oncogene homolog A (ras related)
BG076749		Rpl17	Ribosomal protein L17
BG076690		Rpl18a	Ribosomal protein L18A
BG080015		Rpl37a	Ribosomal protein L37a
BG068918		Rps27a	Ribosomal protein S27a
BG086181		Scp2	Sterol carrier protein 2, liver
BG073510		Syce2	Synaptonemal complex central element protein 2
BG072696		Tpt1	Tumor protein, translationally-controlled 1
BG063282		Trio	Triple functional domain (PTPRF interacting)
BG074132		Ube1l2	Ubiquitin-activating enzyme E1-like 2

BG075353		Zfyve21
AW539380		EST
AW546625		EST
BG063541		EST
BG063921		EST
BG068930		EST
BG073361		EST
BG075274		EST
BG086297		EST

Zinc finger, FYVE domain containing 21

TableS2b. Gene lists of mouse CNS AAGs

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.



Acc	CorAAG	HipAAG	CerAAG	StrAAG	SCAAG	Symbol	Name
BG078138	downregulated	downregulated	downregulated	no change	downregulated	Rrm2	Ribonucleotide reductase M2
BQ551761	downregulated	no change	downregulated	downregulated	downregulated	Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
BG084523	downregulated	downregulated	no change	downregulated	downregulated	EST	
BG064829	no change	downregulated	downregulated	downregulated	downregulated	Hsp90aa1	Heat shock protein 90kDa alpha (cytosolic), class A member 1
BG069704	downregulated	downregulated	downregulated	downregulated	downregulated	Isg20l1	Interferon stimulated exonuclease gene 20-like 1
BG064832	downregulated	downregulated	downregulated	downregulated	downregulated	Tubb2c	Tubulin, beta 2c
BG066934	downregulated	downregulated	downregulated	downregulated	downregulated	Kalrn	Kalirin, RhoGEF kinase
C78835	downregulated	downregulated	downregulated	downregulated	downregulated	Actb	Actin, beta, cytoplasmic
BG084543	downregulated	downregulated	downregulated	downregulated	downregulated	Atrx	Alpha thalassemia/mental retardation syndrome X-linked homolog (human)
BG073423	downregulated	downregulated	downregulated	downregulated	downregulated	Cdk9	Cyclin-dependent kinase 9 (CDC2-related kinase)
BG086487	downregulated	downregulated	downregulated	downregulated	downregulated	E2f6	E2F transcription factor 6
BG074411	downregulated	downregulated	downregulated	downregulated	downregulated	Scarb2	Scavenger receptor class B, member 2
AU041764	downregulated	downregulated	downregulated	downregulated	downregulated	Ssr1	Signal sequence receptor, alpha
BG069830	downregulated	downregulated	downregulated	downregulated	downregulated	Zdhhc7	Zinc finger, DHHC domain containing 7
BG070913	downregulated	downregulated	downregulated	downregulated	downregulated	EST	
BG084482	downregulated	downregulated	downregulated	downregulated	downregulated	1110049F12Rik	RIKEN cDNA 1110049F12 gene
AU041102	downregulated	downregulated	downregulated	downregulated	downregulated	Cobl	Cordon-bleu
BG078898	downregulated	downregulated	downregulated	downregulated	downregulated	Lgtn	Ligatin
BG071638	downregulated	downregulated	downregulated	downregulated	downregulated	Mrp18	Mitochondrial ribosomal protein L18
BG066541	downregulated	downregulated	downregulated	downregulated	downregulated	Pbx3	Pre B-cell leukemia transcription factor 3
BG084595	downregulated	downregulated	downregulated	downregulated	downregulated	Wrn	Werner syndrome homolog (human)
BG071648	downregulated	downregulated	downregulated	downregulated	downregulated	EST	
BG071669	downregulated	downregulated	downregulated	downregulated	downregulated	EST	
BG065074	no change	downregulated	downregulated	downregulated	downregulated	Ahr	Aryl-hydrocarbon receptor
BG065476	downregulated	downregulated	downregulated	downregulated	downregulated	AK190093	CDNA sequence AK190093
BG064663	downregulated	downregulated	downregulated	downregulated	downregulated	Anapc7	Anaphase promoting complex subunit 7
BG078465	downregulated	downregulated	downregulated	downregulated	downregulated	Aof2	Amine oxidase (flavin containing) domain 2

BG078146		Arbp	Acidic ribosomal phosphoprotein P0
BG077676		Dnajc7	DnaJ (Hsp40) homolog, subfamily C, member 7
BG064797		Ldha	Lactate dehydrogenase A
BG065053		Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
BG065197		Rpl5	Ribosomal protein L5
BG076934		Rps2	Ribosomal protein S2
BG078477		Sec13	SEC13 homolog (<i>S. cerevisiae</i>)
BG064838		Tuba2	Tubulin, alpha 2
BG064785		EST	
BG078454		Ppia	Peptidylprolyl isomerase A
BG081063		Cybb	Cytochrome b-245, beta polypeptide
BG073467		Hba-a1	Hemoglobin alpha, adult chain 1
BG069786		Ywhab	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
BG064819		Pa2g4	Proliferation-associated 2G4
BG073636		Psme1	Proteasome (prosome, macropain) 28 subunit, alpha
BG072729		Rbm12b	RNA binding motif protein 12B
BG073099		EST	
BG064873		1700109G14Rik	RIKEN cDNA 1700109G14 gene
BG064840		2610033H07Rik	RIKEN cDNA 2610033H07 gene
BG080936		Arfgap3	ADP-ribosylation factor GTPase activating protein 3
AW538671		Col5a3	Procollagen, type V, alpha 3
BG067879		D330050I23Rik	RIKEN cDNA D330050I23 gene
C80308		Exoc7	Exocyst complex component 7
BG078212		Figl1	Fidgetin-like 1
BG064427		Fkbp15	FK506 binding protein 15
BG078210		Ift88	Intraflagellar transport 88 homolog (<i>Chlamydomonas</i>)
BG067563		Npc1	Niemann Pick type C1
BG085485		Oaz3	Ornithine decarboxylase antizyme 3
BG078193		Pam	Peptidylglycine alpha-amidating monooxygenase
BG067944		Plac1l	Placenta-specific 1-like
BG064736		Rrm1	Ribonucleotide reductase M1
BG085334		Sar1a	SAR1 gene homolog A (<i>S. cerevisiae</i>)
BG081064		Secisbp2	SECIS binding protein 2
BG068288		Slco1b2	Solute carrier organic anion transporter family, member 1b2
BG067985		Spred1	Sprouty protein with EVH-1 domain 1, related sequence
BG073224		Ube2q1	Ubiquitin-conjugating enzyme E2Q (putative) 1

AW536284				EST	
BG067877				EST	
BG067995				EST	Transcribed locus
BG067866				Cxadr	Coxsackievirus and adenovirus receptor
BG064687				EST	Transcribed locus
BG088924				Phkb	Phosphorylase kinase beta
BG063515				Fth1	Ferritin heavy chain 1
BG073690				EST	
BG076161				2410166I05Rik	RIKEN cDNA 2410166I05 gene
BG076127				A330009N23Rik	RIKEN cDNA A330009N23 gene
BG072788				Atrn	Attractin
AW555585				Cct4	Chaperonin subunit 4 (delta)
BG076204				Clybl	Citrate lyase beta like
BG074233				Ndfip1	Nedd4 family interacting protein 1
BG086230				Traf7	Tnf receptor-associated factor 7
BG076410				Wnt4	Wingless-related MMTV integration site 4
AW550445				EST	
AW558347				EST	
BG074259				EST	
BG065860				BC013481	CDNA sequence BC013481
BG069202				Flad1	RFad1, flavin adenine dinucleotide synthetase, homolog (yeast)
AW538653				EST	
C77408				Krt8	Keratin 8
BG077025				Pnn	Pinin
BG065945				Prpf3	PRP3 pre-mRNA processing factor 3 homolog (yeast)
BG063524				Slc20a2	Solute carrier family 20, member 2
BG065697				EST	
BG068317				EST	
BG069139				EST	
BG069140				EST	
BG069152				EST	
BG070808				EST	
AU024060				A930005I04Rik	RIKEN cDNA A930005I04 gene
BQ550730				Ccdc36	Coiled-coil domain containing 36
BG071313				Cdkn1c	Cyclin-dependent kinase inhibitor 1C (P57)
BG072287				Cenpk	Centromere protein K
BG082524				Elovl6	ELOVL family member 6, elongation of long chain fatty acids (yeast)

BG086904				Fis1	Fission 1 (mitochondrial outer membrane) homolog (yeast)
BG078930				Fkbp4	FK506 binding protein 4
BG070896				Jam2	Junction adhesion molecule 2
BG079028				Trpm7	Transient receptor potential cation channel, subfamily M, member 7
BG083613				Usp1	Ubiquitin specific peptdiase 1
BG063123				EST	
BG066720				EST	
BG069127				EST	
BG070930				EST	Transcribed locus
BG070931				EST	
BG077302				Atf7ip	Activating transcription factor 7 interacting protein
BG064219				EST	
BG073042				Hbb-b1	Hemoglobin, beta adult major chain
BG086349				Rnf11	Ring finger protein 11
BG070195				EST	
BG072733				EST	
BG066540				Nlk	Nemo like kinase
C76424				Lhfpl2	Lipoma HMGIC fusion partner-like 2
					Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
BQ550996				Ywhaq	
BG083661				EST	
BG070889				Ilf3	Interleukin enhancer binding factor 3
BG066503				Tmem23	Transmembrane protein 23
BG067933				Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BQ552212				1500011J06Rik	RIKEN cDNA 1500011J06 gene
BG066387				Pafah1b2	Platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit
BG072578				Mrg1	Myeloid ecotropic viral integration site-related gene 1
BQ550902				Arf4	ADP-ribosylation factor 4
BG066539				Cyp2s1	Cytochrome P450, family 2, subfamily s, polypeptide 1
BG069589				Kcnk6	Potassium inwardly-rectifying channel, subfamily K, member 6
BG073494				Leprel2	Leprecan-like 2
BG065888				EST	
BG070969				EST	
BG070970				EST	
					Transcribed locus, weakly similar to XP_001078904.1 similar to zinc finger protein 146 [Rattus norvegicus]
BG070980				EST	
BG071603				EST	

BG074626				Prkg1	Protein kinase, cGMP-dependent, type I
BG074675				2010301N04Rik	RIKEN cDNA 2010301N04 gene
BG072056				Cenpa	Centromere protein A
BG072073				Ift122	Intraflagellar transport 122 homolog (Chlamydomonas)
BQ552294				Stxbp6	Syntaxin binding protein 6 (amisyn)
BG079790				Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
AU046176				EST	
BG072217				0910001A06Rik	RIKEN cDNA 0910001A06 gene
BG073773				Eef1a1	Eukaryotic translation elongation factor 1 alpha 1
C76309				1110012J17Rik	RIKEN cDNA 1110012J17 gene
BG068814				AU023871	Expressed sequence AU023871
BG068466				C130039O16Rik	RIKEN cDNA C130039O16 gene
BG070530				C430003P19Rik	RIKEN cDNA C430003P19 gene
BG069669				Cep27	Centrosomal protein 27
AU040741				Dhx57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57
BG073998				Hcfc1	Host cell factor C1
BG086177				Rpl3	Ribosomal protein L3
BG079508				Tbl1x	Transducin (beta)-like 1 X-linked
BG066559				Tnks1bp1	Tankyrase 1 binding protein 1
BG081054				Xlr3b	X-linked lymphocyte-regulated 3B
BG064441				EST	
BG066124				EST	
BG066361				EST	
BG066550				EST	
BG066591				EST	
BG068694				EST	
BG069622				EST	
BG070182				EST	
BG070663				EST	
BG083198				EST	
BG075822				Cdc9111	CDC91 cell division cycle 91-like 1 (S. cerevisiae)
BG088850				Sh2b3	SH2B adaptor protein 3
BQ552701				Fusip1	FUS interacting protein (serine-arginine rich) 1
BG067932				Glul	Glutamate-ammonia ligase (glutamine synthetase)
BG069356				Epb4.115	Erythrocyte protein band 4.1-like 5
BG079475				Pik4ca	Phosphatidylinositol 4-kinase, catalytic, alpha polypeptide

BG066678				EST	Transcribed locus, weakly similar to XP_912058.1 hypothetical protein XP_906965 [Mus musculus]
BG063659				Ap1s1	Adaptor protein complex AP-1, sigma 1
BG068169				D430042O09Rik	RIKEN cDNA D430042O09 gene
BG064846				Cdc2a	Cell division cycle 2 homolog A (S. pombe)
BG064823				Pgam1	Phosphoglycerate mutase 1
AW545415				EST	
BG063564				2700094F01Rik	RIKEN cDNA 2700094F01 gene
BG080379				Nars	Asparaginyl-tRNA synthetase
BG086444				AU020772	Expressed sequence AU020772
BG082228				Mybl2	Myeloblastosis oncogene-like 2
BG063277				Peg10	Paternally expressed 10
BG069533				Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila)
BG065957				EST	
BG067146				EST	
BG070059				EST	
BQ550410				EST	
BG076621				Hspa5	Heat shock 70kD protein 5 (glucose-regulated protein)
BG071450				1110008J03Rik	RIKEN cDNA 1110008J03 gene
BG073451				2010003J03Rik	RIKEN cDNA 2010003J03 gene
BG083629				2210010A19Rik	RIKEN cDNA 2210010A19 gene
BG066198				2410016F19Rik	RIKEN cDNA 2410016F19 gene
BG066645				2410042D21Rik	RIKEN cDNA 2410042D21 gene
BG070676				2600011C06Rik	RIKEN cDNA 2600011C06 gene
C80870				2610207I05Rik	RIKEN cDNA 2610207I05 gene
BG071364				2900056M20Rik	RIKEN cDNA 2900056M20 gene
BG070799				4631416L12Rik	RIKEN cDNA 4631416L12 gene
BG073340				4921524J06Rik	RIKEN cDNA 4921524J06 gene
BG069528				5730405I09Rik	RIKEN cDNA 5730405I09 gene
BG063015				9430023L20Rik	RIKEN cDNA 9430023L20 gene
BG086172				Abcd4	ATP-binding cassette, sub-family D (ALD), member 4
C78625				Abpe	Androgen binding protein epsilon
AA409025				Ankrd15	Ankyrin repeat domain 15
BG069506				Arhgef7	Rho guanine nucleotide exchange factor (GEF7)
BG077733				Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
BG083148				AU015228	Expressed sequence AU015228
BG070991				AU017834	Expressed sequence AU017834

BG071370	AU040096	Expressed sequence AU040096
BG072043	AU046084	Expressed sequence AU046084
BG066690	Aurkaip1	Aurora kinase A interacting protein 1
BG070219	Bat2d	BAT2 domain containing 1
BG070779	Bbs2	Bardet-Biedl syndrome 2 homolog (human)
BG064920	Bex1	Brain expressed gene 1
BG079566	Btrc	Beta-transducin repeat containing protein
BG066902	C530030P08Rik	RIKEN cDNA C530030P08 gene
BG071392	C530043G21Rik	RIKEN cDNA C530043G21 gene
BG065908	C77370	Expressed sequence C77370
BG066514	C79445	Expressed sequence C79445
BG066572	Cables1	Cdk5 and Abl enzyme substrate 1
BG070322	Cacng5	Calcium channel, voltage-dependent, gamma subunit 5
BG079870	Caml	Calcium modulating ligand
BG066158	Car12	Carbonic anyhydrase 12
BQ550574	Cask	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)
BQ551014	Cast	Calpastatin
BG072084	Cc2d1b	Coiled-coil and C2 domain containing 1B
AU023920	Ccnc	Cyclin C
BG071340	Ccnd3	Cyclin D3
BG083482	Chek2	CHK2 checkpoint homolog (S. pombe)
BG066703	Clta	Clathrin, light polypeptide (Lca)
BG079442	Cnn2	Calponin 2
BG080972	Crygb	Crystallin, gamma B
BG075303	Cryz1	Crystallin, zeta (quinone reductase)-like 1
BG066227	Cul1	Cullin 1
BG085494	Cul3	Cullin 3
BG078810	Cycc	Cytochrome c, somatic
BQ550937	Cyld	Cylindromatosis (turban tumor syndrome)
BG071352	D18Ert653e	DNA segment, Chr 18, ERATO Doi 653, expressed
BG070630	D630040G17Rik	RIKEN cDNA D630040G17 gene
BG066589	Dmd	Dystrophin, muscular dystrophy
BG070734	Dock1	Dedicator of cyto-kinesis 1
BG070642	Eef2k	Eukaryotic elongation factor-2 kinase
BG071626	EG382450	Predicted gene, EG382450
BG071349	EG666469	Predicted gene, EG666469

BG070901	Eif1a	Eukaryotic translation initiation factor 1A
BG066159	Eif2s2	Eukaryotic translation initiation factor 2, subunit 2 (beta)
BG071373	Epdr2	Ependymin related protein 2 (zebrafish)
BG072115	Fbxo10	F-box protein 10
BG084974	Fbxo22	F-box protein 22
BG065805	Gabrb1	Gamma-aminobutyric acid (GABA-A) receptor, subunit beta 1
BG066634	Galnt4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4
BG072044	Garnl1	GTPase activating RANGAP domain-like 1
BG073057	Gc	Group specific component
BG065591	Ggnbp2	Gametogenetin binding protein 2
BG087977	Gnaq	Guanine nucleotide binding protein, alpha q polypeptide
BG074653	Gpld1	Glycosylphosphatidylinositol specific phospholipase D1
BG070639	Grb2	Growth factor receptor bound protein 2
BG070643	Hdac2	Histone deacetylase 2
BG076765	Hnrpc	Heterogeneous nuclear ribonucleoprotein C
BG084192	Ik	IK cytokine
BG084492	Ikzf4	IKAROS family zinc finger 4
BG074640	Il10ra	Interleukin 10 receptor, alpha
BQ550324	Il17re	Interleukin 17 receptor E
BG082794	Ixl	Intersex-like (Drosophila)
BG080027	Kras	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
BQ550722	Las1l	LAS1-like (S. cerevisiae)
BG071473	Lrp2	Low density lipoprotein receptor-related protein 2
BG074685	Lrpprc	Leucine-rich PPR-motif containing
BG069144	Lrrc7	Leucine rich repeat containing 7
BG068302	Magi2	Membrane associated guanylate kinase, WW and PDZ domain containing 2
BG072364	Mal2	Mal, T-cell differentiation protein 2
BG082602	Mark3	MAP/microtubule affinity-regulating kinase 3
BG072383	Mastl	Microtubule associated serine/threonine kinase-like
BG087841	Mbnl1	Muscleblind-like 1 (Drosophila)
BG084276	Mdh2	Malate dehydrogenase 2, NAD (mitochondrial)
BG078870	Mkrn1	Makorin, ring finger protein, 1
BG070800	Mlstd2	Male sterility domain containing 2
BG074650	Mtmr12	Vmyotubularin related protein 12
BG086082	Ncapd2	Non-SMC condensin I complex, subunit D2

BQ551032		Ndor1	NADPH dependent diflavin oxidoreductase 1
BG079485		Ndufa10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10
BG084240		Ndufs7	NADH dehydrogenase (ubiquinone) Fe-S protein 7
BG071315		Nipbl	Nipped-B homolog (Drosophila)
BG083972		Nol10	Nucleolar protein 10
BG066700		Nol7	Nucleolar protein 7
BG072041		Nolc1	Nucleolar and coiled-body phosphoprotein 1
BG072053		Nr2e1	Nuclear receptor subfamily 2, group E, member 1
BG070986		Oaz2	Ornithine decarboxylase antizyme 2
BG071353		Papola	Poly (A) polymerase alpha
BG070255		Pde7a	Phosphodiesterase 7A
BG070766		Pdxk	Pyridoxal (pyridoxine, vitamin B6) kinase
BG071667		Pgm2l1	Phosphoglucomutase 2-like 1
BG081585		Pigf	Phosphatidylinositol glycan anchor biosynthesis, class F
BG065677		Pik3r3	Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55)
BG084805		Pik4cb	Phosphatidylinositol 4-kinase, catalytic, beta polypeptide
BG066925		Pkd1l3	Polycystic kidney disease 1 like 3
BQ550997		Poldip3	Polymerase (DNA-directed), delta interacting protein 3
BG075444		Polr2j	Polymerase (RNA) II (DNA directed) polypeptide J
BG083644		Por	P450 (cytochrome) oxidoreductase
BG067048		Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform
BG071336		Prkab1	Protein kinase, AMP-activated, beta 1 non-catalytic subunit
BQ550366		Prkar2a	Protein kinase, cAMP dependent regulatory, type II alpha
BQ550958		Prpf18	PRP18 pre-mRNA processing factor 18 homolog (yeast)
BG071483		Prune	Prune homolog (Drosophila)
BG065633		Psmb2	Proteasome (prosome, macropain) subunit, beta type 2
BG071685		Ptdss1	Phosphatidylserine synthase 1
BG072681		Ptges3	Prostaglandin E synthase 3 (cytosolic)
BG072113		Ptk2	PTK2 protein tyrosine kinase 2
BG072031		Pts	6-pyruvoyl-tetrahydropterin synthase
BG071362		Pycard	PYD and CARD domain containing
BQ551650		Rab10	RAB10, member RAS oncogene family
BG070713		Rab30	RAB30, member RAS oncogene family
BG066577		Rbm6	RNA binding motif protein 6
AU040781		Rbx1	Ring-box 1
BG065852		Rcor1	REST corepressor 1

AU041357	Rhod	Ras homolog gene family, member D
BG078875	Rogdi	Rogdi homolog (Drosophila)
BG066735	RP23-248K2.4	Hepatitis A virus cellular receptor 1-like
BQ550634	Scn3a	Sodium channel, voltage-gated, type III, alpha
BQ551136	Slc9a3r1	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1
BQ551887	Slc9a6	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 6
BG069386	Slco4c1	Solute carrier organic anion transporter family, member 4C1
BQ550611	Smad2	MAD homolog 2 (Drosophila)
BQ552244	Snap23	Synaptosomal-associated protein 23
BG081012	Snrpb2	U2 small nuclear ribonucleoprotein B
AU040496	Sp100	Nuclear antigen Sp100
BQ550540	Spn	Sialoporphin
BG065620	Ss18	Synovial sarcoma translocation, Chromosome 18
BG069385	Stat2	Signal transducer and activator of transcription 2
BG078928	Stmn3	Stathmin-like 3
BG073342	Suhw4	Suppressor of hairy wing homolog 4 (Drosophila)
BG071689	Tbc1d15	TBC1 domain family, member 15
BG065608	Tbl2	Transducin (beta)-like 2
BG066250	Tbx20	T-box 20
BG085534	Tcf4	Transcription factor 4
BQ550368	Tcfap2c	Transcription factor AP-2, gamma
BG081076	Tcl1	T-cell lymphoma breakpoint 1
C77948	Tera	Teratocarcinoma expressed, serine rich
BG086091	Terf1	Telomeric repeat binding factor 1
BG084491	Tjp2	Tight junction protein 2
BG073058	Tle1	Transducin-like enhancer of split 1, homolog of Drosophila E(spl)
BQ550610	Tmco1	Transmembrane and coiled-coil domains 1
BG073784	Tmem19	Transmembrane protein 19
BG087296	Tmem50b	Transmembrane protein 50B
BG066239	Tnks2	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2
BG071346	Trim34	Tripartite motif protein 34
BG065689	Ube2l3	Ubiquitin-conjugating enzyme E2L 3
BQ550339	Ube3a	Ubiquitin protein ligase E3A
BG069853	Uqcrc1	Ubiquinol-cytochrome c reductase core protein 1
BQ551117	Wee1	Wee 1 homolog (S. pombe)

BQ551652		Zc3h7a	Zinc finger CCCH type containing 7 A
BG066657		Zfand3	Zinc finger, AN1-type domain 3
AU046252		Zfp69	Zinc finger protein 69
AA409525		EST	
AU015835		EST	
AU040991		EST	
AU041361		EST	
AU044194		EST	Transcribed locus
AU046250		EST	Transcribed locus
AW549861		EST	
BG063085		EST	
BG063918		EST	
BG064292		EST	
BG065559		EST	
BG065566		EST	Transcribed locus, weakly similar to NP_983802.1 [Eremothecium gossypii]
BG065577		EST	
BG065632		EST	
BG065948		EST	
BG066241		EST	
BG066530		EST	
BG066582		EST	
BG066588		EST	
BG066623		EST	
BG066633		EST	
BG066659		EST	
BG066724		EST	Transcribed locus
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BG066882		EST	
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BG067967		EST	
BG068086		EST	
BG068202		EST	
BG068435		EST	
BG068468		EST	

BG068730	EST	
BG069110	EST	
BG069132	EST	
BG070231	EST	
BG070244	EST	
BG070564	EST	
BG070632	EST	
BG070691	EST	
BG070755	EST	
BG070789	EST	
BG070879	EST	Transcribed locus
BG070974	EST	
BG071361	EST	
BG071375	EST	Transcribed locus
BG071377	EST	Transcribed locus
BG071455	EST	
BG071676	EST	
BG072042	EST	
BG072094	EST	
BG072465	EST	
BG073061	EST	
BG073336	EST	
BG073377	EST	
BG073379	EST	
BG074974	EST	
BG075627	EST	
BG079860	EST	
BG084196	EST	
BG084207	EST	
BG084924	EST	
BQ550386	EST	CDNA clone IMAGE:5686051
BQ550394	EST	
BQ550555	EST	
BQ550923	EST	
BQ550972	EST	
BQ551030	EST	
BQ551690	EST	

BQ551862		EST
BQ552246		EST
BQ552292		EST
C76835		EST
BQ550412		1110018G07Rik RIKEN cDNA 1110018G07 gene
AW555133		2310028N02Rik RIKEN cDNA 2310028N02 gene
BG076408		2610206B13Rik RIKEN cDNA 2610206B13 gene
BG084861		2700050L05Rik RIKEN cDNA 2700050L05 gene
BG086258		2700060E02Rik RIKEN cDNA 2700060E02 gene
BG076195		4931419K03Rik RIKEN cDNA 4931419K03 gene
BG076134		9330120H11Rik RIKEN cDNA 9330120H11 gene
BG066610		9330158F14Rik RIKEN cDNA 9330158F14 gene
BG073838		AA536749 Expressed sequence AA536749
BG075232		Aox3 Aldehyde oxidase 3
BG088940		Aqr Aquarius
BG088097		Arhgap28 Rho GTPase activating protein 28
BG073860		Armcx1 Armadillo repeat containing, X-linked 1
BG075229		Atrnl1 Attractin like 1
BG064530		BC017647 CDNA sequence BC017647
BG076130		BC063749 CDNA sequence BC063749
BG076206		Bscl2 Bernardinelli-Seip congenital lipodystrophy 2 homolog (human)
BG076373		Ccl27 Chemokine (C-C motif) ligand 27
BG076493		Cdc42bpa Cdc42 binding protein kinase alpha
BQ550079		Cltb Clathrin, light polypeptide (Lcb)
BG086240		Cnbp Cellular nucleic acid binding protein
BG088953		Col4a1 Procollagen, type IV, alpha 1
BG076180		Col5a2 Procollagen, type V, alpha 2
BG088391		Cryl1 Crystallin, lambda 1
BG088723		Dbnl Drebrin-like
BG075553		Ddr2 Discoidin domain receptor family, member 2
BG073493		Dnmt3a DNA methyltransferase 3A
BG076153		Dusp7 Dual specificity phosphatase 7
BG085728		Eftud2 Elongation factor Tu GTP binding domain containing 2
BG073936		Ehbp111 EH domain binding protein 1-like 1
BQ550136		Eif4a1 Eukaryotic translation initiation factor 4A1
BG088888		Elmo2 Engulfment and cell motility 2, ced-12 homolog (C. elegans)
BG072273		Eps15 Epidermal growth factor receptor pathway substrate 15

BG073875	Esr1	Estrogen receptor 1 (alpha)
BG074120	Fbxo42	F-box protein 42
BG088675	Fcmd	Fukuyama type congenital muscular dystrophy homolog (human)
BG088903	Fez1	Fasciculation and elongation protein zeta 1 (zygin I) UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1
BG076167	Galnt1	GATA binding protein 4
BG088871	Gata4	Glyoxalase 1
BG087642	Glo1	GDP-mannose pyrophosphorylase A
BG087174	Gmppa	Glutathione S-transferase, mu 1
BG087780	Gstm1	Hemoglobin X, alpha-like embryonic chain in Hba complex
BG085643	Hba-x	Hypoxanthine guanine phosphoribosyl transferase 1
BG075862	Hprt1	Insulin-like growth factor binding protein 3
BG088567	Igfbp3	Inner membrane protein, mitochondrial
AW555640	Immt	IAP promoted placental gene
BQ550178	Ipp	Jumonji domain containing 1C
BG076207	Jmjd1c	Potassium voltage-gated channel, subfamily Q, member 1
AW559127	Kcnq1	Kinesin family member C2
BG075825	Kifc2	MARVEL (membrane-associating) domain containing 2
BG076407	Marveld2	Methionine adenosyltransferase II, alpha
BQ550139	Mat2a	Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish))
BG088908	Mid1ip1	Metaxin 1
BG076156	Mtx1	MYB binding protein (P160) 1a
BG076894	Mybbp1a	NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae)
AW551875	Nfu1	Expressed in non-metastatic cells 6, protein
BG076133	Nme6	Non-POU-domain-containing, octamer binding protein
BG064006	Nono	Pericentriolar material 1
BG076129	Pcm1	Peroxisomal biogenesis factor 12
BG088662	Pex12	Peroxisome biogenesis factor 16
BG088691	Pex16	Prohibitin
BG077751	Phb	Polymerase (RNA) II (DNA directed) polypeptide D
BG088404	Polr2d	Peroxiredoxin 2
BQ550096	Prdx2	Protein serine kinase H1
BG076196	Pskh1	Polypyrimidine tract binding protein 2
BG076185	Ptbp2	Phosphatidylserine receptor
BG075069	Ptdsr	Prostaglandin E receptor 2 (subtype EP2)
BG086577	Ptger2	RAB3D, member RAS oncogene family
BG076387	Rab3d	

BG076377	Rabep1	Rabaptin, RAB GTPase binding effector protein 1
BG076155	Rabl4	RAB, member of RAS oncogene family-like 4
BG088950	Rac1	RAS-related C3 botulinum substrate 1
BG075206	Rpl6	Ribosomal protein L6
BQ550060	Rpn1	Ribophorin I
BG088362	Rqcd1	Rcd1 (required for cell differentiation) homolog 1 (S. pombe)
BG088931	Sall2	Sal-like 2 (Drosophila)
BG088667	Sesn1	Sestrin 1
BG076501	Sfrs6	Splicing factor, arginine/serine-rich 6
BG076166	Slc12a5	Solute carrier family 12, member 5
BG076120	Smurf1	SMAD specific E3 ubiquitin protein ligase 1
BG087779	Sumo2	SMT3 suppressor of mif two 3 homolog 2 (yeast)
BQ550038	Tbc1d12	TBC1D12: TBC1 domain family, member 12
BG075873	Tbc1d20	TBC1 domain family, member 20
BG076142	Tdh	L-threonine dehydrogenase
BG088909	Tle6	Transducin-like enhancer of split 6, homolog of Drosophila E(spl)
BG066380	Trip12	Thyroid hormone receptor interactor 12
AW558029	Uqcr	Ubiquinol-cytochrome c reductase (6.4kD) subunit
BG075872	Usp25	Ubiquitin specific peptidase 25
BG086567	Wbp5	WW domain binding protein 5
BG085556	Wwp1	WW domain containing E3 ubiquitin protein ligase 1
BG075788	Xpc	Xeroderma pigmentosum, complementation group C
BG076162	Zfp612	Zinc finger protein 612
BG076335	Zfp644	Zinc finger protein 644
AU040550	EST	
AW548438	EST	
AW550680	EST	
AW551760	EST	
AW551856	EST	
AW551902	EST	
AW554651	EST	
AW555179	EST	
AW556496	EST	
AW556991	EST	
AW557207	EST	
AW557344	EST	
AW558800	EST	

AW559082		EST	Transcribed locus
BG071491		EST	
BG073267		EST	
BG073826		EST	Transcribed locus
BG073930		EST	
BG074316		EST	
BG074374		EST	
BG074399		EST	
BG075833		EST	
BG076137		EST	Transcribed locus
BG076145		EST	
BG076353		EST	
BG076396		EST	Transcribed locus
BG077789		EST	
BG084425		EST	Transcribed locus
BG085008		EST	
BG088902		EST	
BG088920		EST	
BI076870		EST	
AW551432		1110007C02Rik	RIKEN cDNA 1110007C02 gene
BG073048		1200011O22Rik	RIKEN cDNA 1200011O22 gene
BG076839		1500032L24Rik	RIKEN cDNA 1500032L24 gene
BG073774		2700083E18Rik	RIKEN cDNA 2700083E18 gene
BG078443		2900073G15Rik	RIKEN cDNA 2900073G15 gene
BG065211		3110082I17Rik	RIKEN cDNA 3110082I17 gene
BG065185		3930401K13Rik	RIKEN cDNA 3930401K13 gene
BG067919		4833405L11Rik	RIKEN cDNA 4833405L11 gene
BG065233		6530403A03Rik	RIKEN cDNA 6530403A03 gene
BG063815		Acot9	Acyl-CoA thioesterase 9
BG087449		Acp1	Acid phosphatase 1, soluble
BG072752		Actg1	Actin, gamma, cytoplasmic 1
BG064405		Ahctf1	AT hook containing transcription factor 1
BG077184		AI413782	Expressed sequence AI413782
BG064421		AI425999	Expressed sequence AI425999
BG077796		Akp2	Alkaline phosphatase 2, liver
BG065457		Aldoa	Aldolase 1, A isoform
BG072839		Alkbh3	AlkB, alkylation repair homolog 3 (E. coli)

BG072609		Amot1	Angiomotin-like 1
BG073527		Anp32a	Acidic (leucine-rich) nuclear phosphoprotein 32 family, member A
BG077739		Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1
BG078689		Atp5a1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1
BG077799		Atp6v0c	ATPase, H ⁺ transporting, lysosomal V0 subunit C
BG073380		AW549542	Expressed sequence AW549542
BG078487		BC030867	CDNA sequence BC030867
BG065113		Bcat1	Branched chain aminotransferase 1, cytosolic
BG073443		Bcl9l	B-cell CLL/lymphoma 9-like
BG076617		Calm1	Calmodulin 1
AW537940		Calm2	Calmodulin 2
BG069728		Ccdc39	Coiled-coil domain containing 39
BG064770		Cct5	Chaperonin subunit 5 (epsilon)
BG065445		Clca6	Chloride channel calcium activated 6
BG073116		Clic1	Chloride intracellular channel 1
BG072984		Cltc	Clathrin, heavy polypeptide (Hc)
BG078639		Cnot6	CCR4-NOT transcription complex, subunit 6
BG076988		Cox8a	Cytochrome c oxidase, subunit VIIIa
BG068906		Cpeb1	Cytoplasmic polyadenylation element binding protein 1
BG074423		Cstf1	Cleavage stimulation factor, 3' pre-RNA, subunit 1
BG065210		Cwf19l2	CWF19-like 2, cell cycle control (S. pombe)
BG063739		Deb1	Differentially expressed in B16F10 1
BG082456		Dnajc8	DnaJ (Hsp40) homolog, subfamily C, member 8
BG078439		Dnase1	Deoxyribonuclease I
BG067844		Dscaml1	Down syndrome cell adhesion molecule-like 1
BG069784		Dynlt3	Dynein light chain Tctex-type 3
BG064950		EG433273	Predicted gene, EG433273
BG063829		Eif2a	Eukaryotic translation initiation factor 2a
BG078409		Eno1	Enolase 1, alpha non-neuron
BG065048		Ghdc	GH3 domain containing
BG078343		Ghitm	Growth hormone inducible transmembrane protein
AU023208		Gna14	Guanine nucleotide binding protein, alpha 14
AW556925		Gnas	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus
BG078478		Gpc3	Glypican 3
BG066419		Gpr108	G protein-coupled receptor 108

AW551017		Gprasp1	G protein-coupled receptor associated sorting protein 1
BG077204		Gps1	G protein pathway suppressor 1
BG076882		Hars	Histidyl-tRNA synthetase
BG063755		Homer2	Homer homolog 2 (Drosophila)
BG079631		Hsp90ab1	Heat shock protein 90kDa alpha (cytosolic), class B member 1
BG078338		Hsp90b1	Heat shock protein 90kDa beta (Grp94), member 1
BG069762		Il7	Interleukin 7
BG065065		Impad1	Inositol monophosphatase domain containing 1
AW544628		Itgb1	Integrin beta 1 (fibronectin receptor beta)
BQ551722		Kif3a	Kinesin family member 3A
BG073322		Kif3b	Kinesin family member 3B
BG069796		Kihl2	Kelch-like 2, Mayven (Drosophila)
BG074228		Kihl5	Kelch-like 5 (Drosophila)
BG078444		Kntc1	Kinetochore associated 1
BG063426		Krt7	Keratin 7
BG078651		Large	Like-glycosyltransferase
BG078416		Lrrc40	Leucine rich repeat containing 40
BG085378		Marcks	Myristoylated alanine rich protein kinase C substrate
BG080961		Mdh1	Malate dehydrogenase 1, NAD (soluble)
BG076643		Mgat4b	Mannoside acetylglucosaminyltransferase 4, isoenzyme B
BG063728		Morf4l2	Mortality factor 4 like 2
BG068329		Mybl1	Myeloblastosis oncogene-like 1
BG086273		Ndufa13	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
BG086348		Ndufb10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10
BG063881		Neu1	Neuraminidase 1
BG072673		Nfatc4	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
BG073544		Nfib	Nuclear factor I/B
BG078592		Nsf	N-ethylmaleimide sensitive fusion protein
BG085840		Olfm1	Olfactomedin 1
AW548258		P4ha1	Procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide
BG085724		Pabpn1	Poly(A) binding protein, nuclear 1
BG065345		Pak2	P21 (CDKN1A)-activated kinase 2
BG074157		Phip	Pleckstrin homology domain interacting protein
BG064066		Pip5k1c	Phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma
BG078663		Pkm2	Pyruvate kinase, muscle

BG065409	Pla2g6	Phospholipase A2, group VI
BG078528	Pou5f1	POU domain, class 5, transcription factor 1
BG068894	Preb	Prolactin regulatory element binding
BG085625	Prkci	Protein kinase C, iota
BG065166	Prmt5	Protein arginine N-methyltransferase 5
BG085762	Prpf31	PRP31 pre-mRNA processing factor 31 homolog (yeast)
BG073526	Ptov1	Prostate tumor over expressed gene 1
BG086188	Ptprg	Protein tyrosine phosphatase, receptor type, G
BG078499	Rab17	RAB17, member RAS oncogene family
BG073320	Rag1ap1	Recombination activating gene 1 activating protein 1
BG073546	Rasa3	RAS p21 protein activator 3
BG078516	Rg9mtd1	RNA (guanine-9-) methyltransferase domain containing 1
BG086013	Rnf10	Ring finger protein 10
BG065173	Rnf185	Ring finger protein 185
BG064438	Rod1	ROD1 regulator of differentiation 1 (S. pombe)
BG078442	Rpl15	Ribosomal protein L15
BG086430	Rpl31	Ribosomal protein L31
BG063847	Rpl8	Ribosomal protein L8
BG077726	Rps15	Ribosomal protein S15
BG077529	Rps18	Ribosomal protein S18
BG068918	Rps27a	Ribosomal protein S27a
BG076993	Rrbp1	Ribosome binding protein 1
BG072572	Rsbn1	Rosbin, round spermatid basic protein 1
BG073039	Rxrb	Retinoid X receptor beta
BG064820	Sae1	SUMO1 activating enzyme subunit 1
BG078617	Sf3b2	Splicing factor 3b, subunit 2
BG086702	Sh2b1	SH2B adaptor protein 1
BG078464	Slc13a4	Solute carrier family 13 (sodium/sulfate symporters), member 4
BG088856	Sltm	SAFB-like, transcription modulator
BG063417	Smpd3	Sphingomyelin phosphodiesterase 3, neutral
BG077765	Sox8	SRY-box containing gene 8
BG073524	Spint2	Serine protease inhibitor, Kunitz type 2
BG063138	Spock2	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2
BG075210	Ss18l1	Synovial sarcoma translocation gene on chromosome 18-like 1
BG073409	Stmn1	Stathmin 1
BG063223	Suc1g2	Succinate-Coenzyme A ligase, GDP-forming, beta subunit
AU022550	Suv39h2	Suppressor of variegation 3-9 homolog 2 (Drosophila)

BG069749	Tarbp2	TAR (HIV) RNA binding protein 2
BG067920	Tbc1d10b	TBC1 domain family, member 10b
BG063180	Tbrg4	Transforming growth factor beta regulated gene 4
BG073668	Tfb1m	Transcription factor B1, mitochondrial
BG063212	Tm9sf3	Transmembrane 9 superfamily member 3
BG076581	Tmed2	Transmembrane emp24 domain trafficking protein 2
BG082678	Tns3	Tensin 3
BG081944	Tspan5	Tetraspanin 5
BG069808	Tubb2b	Tubulin, beta 2b
BG077716	Tubb6	Tubulin, beta 6
BG086914	Txnl4	Thioredoxin-like 4
BQ552732	Uba52	Ubiquitin A-52 residue ribosomal protein fusion product 1
BG069806	Ubc	Ubiquitin C
BG082755	Ubr2	Ubiquitin protein ligase E3 component n-recogin 2
BG086722	Uchl1	Ubiquitin carboxy-terminal hydrolase L1
BG076903	Unc45a	Unc-45 homolog A (C. elegans)
BG078411	Vps41	Vacuolar protein sorting 41 (yeast)
BG073390	Wbscr22	Williams Beuren syndrome chromosome region 22
BG065012	Ywhah	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
BG086134	Zc3hc1	Zinc finger, C3HC type 1
BG085989	Zfp313	Zinc finger protein 313
BG073487	Zfp335	Zinc finger protein 335
BG065115	Zwint	ZW10 interactor
AA407855	EST	
AA409509	EST	
AW538179	EST	
AW541497	EST	
AW549995	EST	
AW553932	EST	
AW557547	EST	
BG063139	EST	
BG064458	EST	
BG065178	EST	
BG065963	EST	
BG068930	EST	

BG069795		EST	Transcribed locus, weakly similar to XP_001078904.1 similar to zinc finger protein 146 [Rattus norvegicus]
BG071454		EST	
BG073115		EST	
BG073612		EST	
BG073995		EST	
BG087495		EST	
BI076595		EST	
BQ551141		1110065H08Rik	RIKEN cDNA 1110065H08 gene
BQ552600		1700011I03Rik	RIKEN cDNA 1700011I03 gene
BG066274		1700020O03Rik	RIKEN cDNA 1700020O03 gene
BG074444		1700041C02Rik	RIKEN cDNA 1700041C02 gene
BG076565		2610204K14Rik	RIKEN cDNA 2610204K14 gene
AU040159		4732418C07Rik	RIKEN cDNA 4732418C07 gene
BG068366		4932414N04Rik	RIKEN cDNA 4932414N04 gene
BG083257		4933426K21Rik	RIKEN cDNA 4933426K21 gene
BG073827		5730407K14Rik	RIKEN cDNA 5730407K14 gene
BG066726		8430426H19Rik	RIKEN cDNA 8430426H19 gene
BG069602		Acaa2	Acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)
BG079065		Adam15	A disintegrin and metallopeptidase domain 15 (metargidin)
BG069227		Aftph	Aftiphilin
BG065093		Agtrap	Angiotensin II, type I receptor-associated protein
BG068644		Arl6ip2	ADP-ribosylation factor-like 6 interacting protein 2
BG082495		Asl	Argininosuccinate lyase
BG068769		AU023762	Expressed sequence AU023762
BG070516		Auh	AU RNA binding protein/enoyl-coenzyme A hydratase
BG072468		Banp	Btg3 associated nuclear protein
BG083476		BC003331	CDNA sequence BC003331
BG066764		BC033915	CDNA sequence BC033915
BG070749		Brd3	Bromodomain containing 3
BG072887		Btbd9	BTB (POZ) domain containing 9
BG070932		C030048H21Rik	RIKEN cDNA C030048H21 gene
BG071169		Camk2b	Calcium/calmodulin-dependent protein kinase II, beta
BG069436		Ccdc60	Coiled-coil domain containing 60
BG073943		Csnk1g1	Casein kinase 1, gamma 1
BG065713		D17Ert29e	DNA segment, Chr 17, ERATO Doi 29, expressed

AU042625		Dbc1	Deleted in bladder cancer 1 (human)
BI076814		Dbt	Dihydrolipoamide branched chain transacylase E2
BQ552530		Dlgh1	Discs, large homolog 1 (Drosophila)
BG081778		Dock4	Dedicator of cytokinesis 4
BG071947		Dtna	Dystrobrevin alpha
BG083466		Etfdh	Electron transferring flavoprotein, dehydrogenase
BQ551776		Fbxo30	F-box protein 30
BQ551773		Fer1l3	Fer-1-like 3, myoferlin (C. elegans)
BG066451		Ggps1	Geranylgeranyl diphosphate synthase 1
BG087265		Hdgfrp3	Hepatoma-derived growth factor, related protein 3
BG079049		Heatr2	HEAT repeat containing 2
BG081903		Hsd3b1	Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1
BQ551924		Igf1r	Insulin-like growth factor I receptor
BG067905		Il17f	Interleukin 17F
BG074597		Inoc1	INO80 complex homolog 1 (S. cerevisiae)
BG071191		Itga11	Integrin, alpha 11
BG085297		Jarid1b	Jumonji, AT rich interactive domain 1B (Rbp2 like)
BG069378		Kcnh3	Potassium voltage-gated channel, subfamily H (eag-related), member 3
BG073351		Kdelc2	KDEL (Lys-Asp-Glu-Leu) containing 2
C79740		Lace1	Lactation elevated 1
BG084150		Lap3	Leucine aminopeptidase 3
BG087321		Lins2	Lines homolog 2 (Drosophila)
BG073012		Mamdc1	MAM domain containing 1
BG071128		Mib1	Mindbomb homolog 1 (Drosophila)
BG065778		Mll3	Myeloid/lymphoid or mixed-lineage leukemia 3
BG083317		Net1	Neuroepithelial cell transforming gene 1
BG083489		Nrg4	Neuregulin 4
BG072344		Orc11	Origin recognition complex, subunit 1-like (S.cereviaiae)
BG075119		Papolg	Poly(A) polymerase gamma
BG071215		Paqr5	Progesterin and adipoQ receptor family member V
BQ551164		Pask	PAS domain containing serine/threonine kinase
BG082619		Pcnt	Pericentrin (kendrin)
BG077310		Pdlim2	PDZ and LIM domain 2
BG072296		Phf8	PHD finger protein 8
BG071360		Pofut1	Protein O-fucosyltransferase 1

BG074143	Polr3gl	Polymerase (RNA) III (DNA directed) polypeptide G like
BG079960	Prkcz	Protein kinase C, zeta
BG065725	Prps1	Phosphoribosyl pyrophosphate synthetase 1
C76498	Prr8	Proline rich 8
BG084049	Ptgis	Prostaglandin I2 (prostacyclin) synthase
BG077083	Rad1	RAD1 homolog (S. pombe)
BG063946	Rest	RE1-silencing transcription factor
BG069368	Rfx1	Regulatory factor X, 1 (influences HLA class II expression)
BG082484	Rgs12	Regulator of G-protein signaling 12
BG071220	Rnf19	Ring finger protein (C3HC4 type) 19
BG076525	Rnf2	Ring finger protein 2
BG079971	Rpgrip1	Retinitis pigmentosa GTPase regulator interacting protein 1
BG075383	Sfrs2ip	Splicing factor, arginine/serine-rich 2, interacting protein
BG074764	Sfxn1	Sideroflexin 1
BG062935	Sipa1l2	Signal-induced proliferation-associated 1 like 2
BG084160	Slc11a2	Solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
BG073944	Slc24a3	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3
BG078901	Spcs2	Signal peptidase complex subunit 2 homolog (S. cerevisiae)
BG074672	Strbp	Spermatid perinuclear RNA binding protein
BG084153	Suox	Sulfite oxidase
BG074497	Tnrc6a	Trinucleotide repeat containing 6a
BG066722	Ube2h	Ubiquitin-conjugating enzyme E2H
BG068877	Vcam1	Vascular cell adhesion molecule 1
AU018221	Wwtr1	WW domain containing transcription regulator 1
BG069212	Zfp750	Zinc finger protein 750
BG070672	Zfp9	Zinc finger protein 9
AU016579	EST	
AU024687	EST	
AU040379	EST	
AU040688	EST	
AU042949	EST	
AW547223	EST	
AW553453	EST	
BG063494	EST	
BG065704	EST	

BG065928		EST	
BG066596		EST	
BG066753		EST	
BG067149		EST	
BG067603		EST	
BG067639		EST	Transcribed locus
BG067764		EST	
BG068106		EST	
BG068109		EST	
BG068110		EST	
BG068189		EST	
BG068321		EST	
BG068354		EST	
BG068775		EST	
BG068854		EST	
BG069078		EST	
BG069141		EST	
BG069343		EST	
BG069590		EST	
BG070466		EST	
BG070587		EST	
BG070824		EST	
BG071170		EST	
BG071183		EST	
BG071194		EST	
BG071461		EST	
BG071515		EST	
BG071864		EST	
BG071961		EST	Transcribed locus
BG072233		EST	
BG072320		EST	Transcribed locus
BG073033		EST	
BG076914		EST	
BG079861		EST	
BG081202		EST	
BG084074		EST	
BG087807		EST	

BQ552510		EST
BQ552528		EST
BQ552631		EST
C78984		EST
C85807		EST
BG085385		2610024E20Rik RIKEN cDNA 2610024E20 gene
BG064518		2810422J05Rik RIKEN cDNA 2810422J05 gene
AA410046		4921517N04Rik RIKEN cDNA 4921517N04 gene
BG064836		4921537D05Rik RIKEN cDNA 4921537D05 gene
BG073203		5033428A16Rik RIKEN cDNA 5033428A16 gene
BG085932		6330577E15Rik RIKEN cDNA 6330577E15 gene
BQ550715		Anp32b Acidic nuclear phosphoprotein 32 family, member B
BG075826		Arf3 ADP-ribosylation factor 3
BG065313		Atp6v1e1 VATPase, H+ transporting, lysosomal V1 subunit E1
AW553617		Bcam Basal cell adhesion molecule
BG066196		C78409 Expressed sequence C78409
BG077878		Cald1 Caldesmon 1
BQ550128		Ccdc9 Coiled-coil domain containing 9
BG085384		Cct2 Chaperonin subunit 2 (beta)
BG066256		Clcn1 Chloride channel 1
BG064855		Cox7a2l Cytochrome c oxidase subunit VIIa polypeptide 2-like
BG069401		Csnk2a2 Casein kinase 2, alpha prime polypeptide
BG064881		D1Ert161e DNA segment, Chr 1, ERATO Doi 161, expressed
BG078206		D330037H05Rik RIKEN cDNA D330037H05 gene
BG064783		Ddx5 DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
AW554618		Diap1 Diaphanous homolog 1 (Drosophila)
BG084373		Dmxl2 Dmx-like 2
BG064751		E4f1 E4F transcription factor 1
BG076418		Elac2 ElaC homolog 2 (E. coli)
BG067161		Endod1 Endonuclease domain containing 1
BG067311		Fbxw17 F-box and WD-40 domain protein 17
BG064795		Ftl1 Ferritin light chain 1
BG064828		Gabpb2 GA repeat binding protein, beta 2
BG065382		Gldc Glycine decarboxylase
BG064940		Gltscr2 Glioma tumor suppressor candidate region gene 2
BQ550758		Gng2 Guanine nucleotide binding protein (G protein), gamma 2 subunit
BQ552668		Gpam Glycerol-3-phosphate acyltransferase, mitochondrial

BG068026		Hel308	Helicase, mus308-like (Drosophila)
BG064653		Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
BG078196		Kcng1	Potassium voltage-gated channel, subfamily G, member 1
BG081236		Lats1	Large tumor suppressor
BG072604		Lats2	Large tumor suppressor 2
BG064582		Lrrc16	Leucine rich repeat containing 16
BG087465		Mapk14	Mitogen activated protein kinase 14
BG064664		Mbc2	Membrane bound C2 domain containing protein
BG082425		Mllt10	Myeloid/lymphoid or mixed lineage-leukemia translocation to 10 homolog (Drosophila)
BG068330		Nol8	Nucleolar protein 8
BG064665		Nucks1	Nuclear casein kinase and cyclin-dependent kinase substrate 1
BG064599		Pappa	Pregnancy-associated plasma protein A
BG064642		Pcyt1a	Phosphate cytidyltransferase 1, choline, alpha isoform
BG064930		Pfkl	Phosphofructokinase, liver, B-type
BG068715		Phf21a	PHD finger protein 21A
BG066673		Phgdh	3-phosphoglycerate dehydrogenase
BG080913		Pole3	Polymerase (DNA directed), epsilon 3 (p17 subunit)
BG082424		Polr2h	Polymerase (RNA) II (DNA directed) polypeptide H
BG074887		Prlr	Prolactin receptor
BG081020		Prr13	Proline rich 13
BG073534		Psd3	Pleckstrin and Sec7 domain containing 3
BG064701		Psmc2	Proteasome (prosome, macropain) 26S subunit, ATPase 2
BG067921		Psme2	Proteasome (prosome, macropain) 28 subunit, beta
BG076902		Pura	Purine rich element binding protein A
BG078132		Rangap1	RAN GTPase activating protein 1
BG083038		Rnf20	Ring finger protein 20
BG064869		Rnmt	RNA (guanine-7-) methyltransferase
BG085977		Rpl10	Ribosomal protein 10
BG085974		Rpl14	Ribosomal protein L14
BG064641		Rpp14	Ribonuclease P 14 subunit (human)
BG078157		Sfrs3	Splicing factor, arginine/serine-rich 3 (SRp20)
BG079955		Slc5a11	Solute carrier family 5 (sodium/glucose cotransporter), member 11
BG068299		Slc7a8	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
BG063497		Stam2	Signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
BG078109		Tcp1	T-complex protein 1

BG064631		Timeless	Timeless homolog (Drosophila)
BG067300		Tinag	Tubulointerstitial nephritis antigen
BG067897		Tnrc6b	Trinucleotide repeat containing 6b
BG086016		Tpm1	Tropomyosin 1, alpha
BG064807		Tpp1	Tripeptidyl peptidase I
BG064856		Tpp2	Tripeptidyl peptidase II
BG073234		Trib1	Tribbles homolog 1 (Drosophila)
BG086839		Trim35	Tripartite motif-containing 35
BG064677		Trpc4ap	Transient receptor potential cation channel, subfamily C, member 4 associated protein
BG073139		Vkorc111	Vitamin K epoxide reductase complex, subunit 1-like 1
BG076940		Wdr3	WD repeat domain 3
BG067887		Wipf2	WAS/WASL interacting protein family, member 2
BG062990		Wiz	Widely-interspaced zinc finger motifs
C77369		Zdhhc6	Zinc finger, DHHC domain containing 6
BG076977		Zranb2	Zinc finger, RAN-binding domain containing 2
AW536295		EST	
AW548714		EST	
BG064729		EST	
BG064784		EST	
BG064868		EST	
BG065291		EST	
BG065585		EST	
BG066267		EST	
BG067176		EST	
BG067221		EST	
BG067278		EST	
BG067886		EST	Transcribed locus, weakly similar to XP_577160.1 similar to LRRGT00088 [Rattus norvegicus]
BG067898		EST	
BG069024		EST	
BG069108		EST	
BG073193		EST	
BG073260		EST	
BG078136		EST	
BG082061		EST	
BG082357		EST	

C78519		EST	
C85808		EST	
C87682		EST	
BG072306		Acaca	Acetyl-Coenzyme A carboxylase alpha
BG075316		Asb1	Ankyrin repeat and SOCS box-containing protein 1
BG076252		AU022870	Expressed sequence AU022870
BG068096		C230040D10Rik	RIKEN cDNA C230040D10 gene
BG085488		Cog8	Component of oligomeric golgi complex 8
BG077424		Dync1li2	Dynein, cytoplasmic 1 light intermediate chain 2
BG072695		Erh	Enhancer of rudimentary homolog (Drosophila)
BG086746		Fabp3	Fatty acid binding protein 3, muscle and heart
BQ552312		Fbxw11	F-box and WD-40 domain protein 11
BG074610		Glb1	Galactosidase, beta 1
BQ552325		Kif3c	Kinesin family member 3C
BG079486		Lrrc59	Leucine rich repeat containing 59
BG064287		Ncl	Nucleolin
BG063969		Ppap2b	Phosphatidic acid phosphatase type 2B
BG083890		Ppfia1	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein, alpha 1
BG087873		Rps6ka5	Ribosomal protein S6 kinase, polypeptide 5
BG064583		Tegt	Testis enhanced gene transcript
BG072375		Ubx8	UBX domain containing 8
BG064502		Utp15	UTP15, U3 small nucleolar ribonucleoprotein, homolog (yeast)
AW538230		EST	
AW538521		EST	
AW538620		EST	
AW546560		EST	
BG067385		EST	
BG068412		EST	
BG068446		EST	
BG071206		EST	
BG071355		EST	
BG072805		EST	
BG073325		EST	
BG076040		EST	
BG087808		EST	
BQ550895		EST	Transcribed locus

BQ551139		EST	Transcribed locus
BQ551597		EST	
C78770		EST	
BG080820		Dnajb4	DnaJ (Hsp40) homolog, subfamily B, member 4
BG076883		1500003O22Rik	RIKEN cDNA 1500003O22 gene
C88307		2610204L23Rik	RIKEN cDNA 2610204L23 gene
BG065432		Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3
BG068557		Actl6a	Actin-like 6A
BG085195		Atp2a2	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2
BG071404		AU041129	Expressed sequence AU041129
BG063312		Bat3	HLA-B-associated transcript 3
AW536452		Cul4b	Cullin 4B
BG080169		Cyb5r3	Cytochrome b5 reductase 3
BG063696		D19Wsu162e	DNA segment, Chr 19, Wayne State University 162, expressed
BG068629		EG235580	Predicted gene, EG235580
BG064471		Ext1	Exostoses (multiple) 1
BG068843		Fchsd2	FCH and double SH3 domains 2
AW545189		Grin1a	Glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A
BG066248		Ifi30	Interferon gamma inducible protein 30
BG079611		Irak1	Interleukin-1 receptor-associated kinase 1
AA408772		Jmjd3	Jumonji domain containing 3
BG066801		LOC624424	Similar to poly(A) binding protein, cytoplasmic 4 isoform 1
AA410017		Nip7	Nuclear import 7 homolog (<i>S. cerevisiae</i>) Pleckstrin homology domain containing, family C (with FERM domain)
BG063822		Plekhc1	member 1
BG064693		Psma1	Proteasome (prosome, macropain) subunit, alpha type 1
BG078672		Rpl26	Ribosomal protein L26
BG087018		Rpl37	Ribosomal protein L37
BG073429		Slc2a4	Solute carrier family 2 (facilitated glucose transporter), member 4
BG069613		Tbc1d9b	TBC1 domain family, member 9B
BG072750		Tgfb1	Transforming growth factor, beta induced
BG071052		Tmem63a	Transmembrane protein 63a
BG077865		Tnfsf5ip1	Tumor necrosis factor superfamily, member 5-induced protein 1
BG078317		Ttc19	Tetratricopeptide repeat domain 19
BG076766		Ttr	Transthyretin
BG063080		Xrn2	5'-3' exoribonuclease 2
BG069606		Zfp592	Zinc finger protein 592

AW539320		EST	
AW539369		EST	
AW556716		EST	
BG064488		EST	
BG069138		EST	
BG069183		EST	
BG069648		EST	
BG070382		EST	
BG071172		EST	
BG072105		EST	
BG076368		EST	
C88129		EST	
BG085733		Septin 8	Septin 8
BG086314		1810013L24Rik	RIKEN cDNA 1810013L24 gene
BG086303		Aip	Aryl-hydrocarbon receptor-interacting protein
AW552546		Aldh1a2	Aldehyde dehydrogenase family 1, subfamily A2
AU043423		Ankhd1	Ankyrin repeat and KH domain containing 1
BG086954		App	Amyloid beta (A4) precursor protein
BG088087		Capzb	Capping protein (actin filament) muscle Z-line, beta
BG068393		Ccdc52	Coiled-coil domain containing 52
BG064532		Ccdc58	Coiled-coil domain containing 58
BG079767		Csda	Cold shock domain protein A
BQ552407		Cst3	Cystatin C
BG072903		Ctbp2	C-terminal binding protein 2
BG065918		Ctnna1	Catenin (cadherin associated protein), alpha 1
AW547680		D4Ert22e	DNA segment, Chr 4, ERATO Doi 22, expressed
BG067487		D9Mgi6	DNA Segment, Chr 9, Mouse Genome Informatics 6
BG078883		Eif2b5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon
BG073013		Golph4	Golgi phosphoprotein 4
AW538243		Itga1	Integrin alpha 1
AU021923		Jag1	Jagged 1
BG079546		Ncoa6	Nuclear receptor coactivator 6
BG088100		Ndufs1	NADH dehydrogenase (ubiquinone) Fe-S protein 1
BG076983		Necap2	NECAP endocytosis associated 2
BG069369		Pdzd3	PDZ domain containing 3
BG076891		Pkp2	Plakophilin 2
BG075879		Plp1	Proteolipid protein (myelin) 1

BQ552383		Rcl1	RNA terminal phosphate cyclase-like 1
BG064900		Scd1	Stearoyl-Coenzyme A desaturase 1
BG075286		Slc25a3	Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3
BG064802		Sparc	Secreted acidic cysteine rich glycoprotein
BG074398		Sparcl1	SPARC-like 1 (mast9, hevin)
BG082439		Trappc3	Trafficking protein particle complex 3
AW554361		Tspyl2	TSPY-like 2
BG067235		Ttbk2	Tau tubulin kinase 2
BG065641		Txndc5	Thioredoxin domain containing 5
C77246		Yars	Tyrosyl-tRNA synthetase
AU020246		EST	Transcribed locus, strongly similar to XP_227080.3 similar to eukaryotic translation elongation factor 1 alpha 1 [Rattus norvegicus]
AW538365		EST	
AW544835		EST	
AW548385		EST	
BG063541		EST	
BG063953		EST	
BG064632		EST	
BG066258		EST	
BG068487		EST	
BG068668		EST	
BG068917		EST	
BG069123		EST	
BG069163		EST	RNA binding site for Dazl protein, clone kc7
BG070315		EST	
BG075262		EST	
BG076222		EST	
BG086298		EST	
BQ552232			6-Mar Membrane-associated ring finger (C3HC4) 6
AW554394		0610012D17Rik	RIKEN cDNA 0610012D17 gene
BG075135		1110007L15Rik	RIKEN cDNA 1110007L15 gene
BG064872		1700019N12Rik	RIKEN cDNA 1700019N12 gene
C87836		1810055G02Rik	RIKEN cDNA 1810055G02 gene
BG076242		2010106G01Rik	RIKEN cDNA 2010106G01 gene
BG064862		2010111I01Rik	RIKEN cDNA 2010111I01 gene
BG075147		2010311D03Rik	RIKEN cDNA 2010311D03 gene

BG080256		2410022L05Rik	RIKEN cDNA 2410022L05 gene
AU040419		4933439F18Rik	RIKEN cDNA 4933439F18 gene
BG080382		5730427N09Rik	RIKEN cDNA 5730427N09 gene
BG074949		5830404H04Rik	RIKEN cDNA 5830404H04 gene
BG069482		6330409N04Rik	RIKEN cDNA 6330409N04 gene
BG068979		9330102E08Rik	RIKEN cDNA 9330102E08 gene
BG063679	Aasdhppt		Amino adipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
BG068195	Abce1		ATP-binding cassette, sub-family E (OABP), member 1
BG064885	Acot2		Acyl-CoA thioesterase 2
BG064835	Adamts10		A disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 10
BG080292	AI481105		Expressed sequence AI481105
C85471	Aifm1		Apoptosis-inducing factor, mitochondrion-associated 1
BG067951	Alox12e		Arachidonate lipoxygenase, epidermal
BG064719	Ankrd32		Ankyrin repeat domain 32
BG078211	Arl1		ADP-ribosylation factor-like 1
AW552880	Arsg		Arylsulfatase G
BG076321	Aspm		Asp (abnormal spindle)-like, microcephaly associated (Drosophila)
BG077116	Auts2		Autism susceptibility candidate 2
BG072521	B3galnt2		UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2
BG072161	BC038167		CDNA sequence BC038167
BG067918	Btg2		B-cell translocation gene 2, anti-proliferative
BG067220	Btg4		B-cell translocation gene 4
BG075022	Bxdc1		Brix domain containing 1
BG067864	C430004E15Rik	RIKEN cDNA C430004E15 gene	
BG078093	Cbx3		Chromobox homolog 3 (Drosophila HP1 gamma)
BG067909	Ccdc69		Coiled-coil domain containing 69
BG077073	Ccnh		Cyclin H
BG073140	Cd8b1		CD8 antigen, beta chain 1
BQ550980	Chn1		Chimerin (chimaerin) 1
BG083522	Cks2		CDC28 protein kinase regulatory subunit 2
BG072331	Clstn1		Calsyntenin 1
BG067896	Cnih		Cornichon homolog (Drosophila)
BG072504	Col18a1		Procollagen, type XVIII, alpha 1
BG067822	Coro2b		Coronin, actin binding protein, 2B

BG066881		Cryz	Crystallin, zeta
BG088576		Ddx27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27
BG067931		Dna2l	DNA2 DNA replication helicase 2-like (yeast)
BG072182		Dusp3	Dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)
BG075819		E230024E03Rik	RIKEN cDNA E230024E03 gene
BG077164		Eif3s2	Eukaryotic translation initiation factor 3, subunit 2 (beta)
BG064842		Emb	Embigin
BG080244		Ern1	Endoplasmic reticulum (ER) to nucleus signalling 1 FERM, RhoGEF (Arhgef) and pleckstrin domain protein 1 (chondrocyte-derived)
BG074340		Farp1	Farp1
BG074324		Farslb	Phenylalanine-tRNA synthetase-like, beta subunit
BG063802		Fcho2	FCH domain only 2
BG065471		Gk5	Glycerol kinase 5 (putative)
BG075159		Gls	Glutaminase
BG086996		Golga1	Golgi autoantigen, golgin subfamily a, 1
BG076263		Hdh	Huntington disease gene homolog
BG068319		Heatr1	HEAT repeat containing 1
BG077487		Hif1a	Hypoxia inducible factor 1, alpha subunit
BG064875		Hs3st3b1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
BG077115		Hunk	Hormonally upregulated Neu-associated kinase
BG085901		Ifitm2	Interferon induced transmembrane protein 2
BG087082		Ifrg15	Interferon alpha responsive gene
BG085919		Jrk	Jerky
BG076025		Kcnk2	Potassium channel, subfamily K, member 2
BG071617		Lemd3	LEM domain containing 3
AW552998		Lsm3	LSM3 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)
BG072998		Lum	Lumican
BG085336		Matn2	Matrilin 2
BG085859		Mc2r	Melanocortin 2 receptor
BG078181		Metap1	Methionyl aminopeptidase 1
BG067853		Mgmt	O-6-methylguanine-DNA methyltransferase
BG067984		Mll5	Myeloid/lymphoid or mixed-lineage leukemia 5
BG080478		Mosc2	MOCO sulphurase C-terminal domain containing 2
BG075103		Mov10	Moloney leukemia virus 10
BG087418		Ms4a6d	Membrane-spanning 4-domains, subfamily A, member 6D
BG087589		Mtch1	Mitochondrial carrier homolog 1 (<i>C. elegans</i>)

BG080731		Nab1	Ngfi-A binding protein 1
BG066947		Ndp52	Nuclear domain 10 protein 52
BG087727		Nfx1	Nuclear transcription factor, X-box binding 1
BG080881		Npepps	Aminopeptidase puromycin sensitive
BG074323		Nr2c2	Nuclear receptor subfamily 2, group C, member 2
BG084112		Nr2f1	Nuclear receptor subfamily 2, group F, member 1
BG086787		Numa1	Nuclear mitotic apparatus protein 1
BG072372		Pcp4l1	Purkinje cell protein 4-like 1
BG088153		Piwil2	Piwi-like homolog 2 (Drosophila)
BG087717		Pms2	Postmeiotic segregation increased 2 (S. cerevisiae)
BG087766		Pnpla8	Patatin-like phospholipase domain containing 8
BG067151		Ppp2r1b	Protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform
BG067908		Prep	Prolyl endopeptidase
BG082377		Prpf38b	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B
BG067867		Ptpn14	Protein tyrosine phosphatase, non-receptor type 14
BG085163		Ptpnf	Protein tyrosine phosphatase, receptor type, F
BG071651		Rab11a	RAB11a, member RAS oncogene family
BG072553		Rab11fip1	RAB11 family interacting protein 1 (class I)
BG088768		Rcn3	Reticulocalbin 3, EF-hand calcium binding domain
BG067185		Runx2	Runt related transcription factor 2
BG080766		Rwdd4a	RWD domain containing 4A
BG074010		Ryr2	Ryanodine receptor 2, cardiac
BG080423		Sart2	Squamous cell carcinoma antigen recognized by T cells 2
BG073672		Sephs1	Selenophosphate synthetase 1
BG074293		Sh3tc2	SH3 domain and tetratricopeptide repeats 2
BG088317		Shc1	Src homology 2 domain-containing transforming protein C1
BG064853		Slc16a3	Solute carrier family 16 (monocarboxylic acid transporters), member 3
BG085951		Slc37a2	Solute carrier family 37 (glycerol-3-phosphate transporter), member 2
BG064714		Slc3a2	Solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
BG067865		Slc4a8	Solute carrier family 4 (anion exchanger), member 8
BG063419		Smap1	Stromal membrane-associated protein 1
AU022611		Smc6	Structural maintenance of chromosomes 6
BG081031		Smox	Spermine oxidase

BG071657		Smu1	Smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)
BG078208		Srprb	Signal recognition particle receptor, B subunit
BG084249		Ssh1	Slingshot homolog 1 (Drosophila)
BG074313		Syngn2	Synaptogyrin 2
BG071687		Synj2bp	Synaptojanin 2 binding protein
BG086829		Sypl	Synaptophysin-like protein
			TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor
BG082016		Taf7	
BG067974		Thsd7b	Thrombospondin, type I, domain containing 7B
BG064553		Thumpd1	THUMP domain containing 1
BG064763		Top3b	Topoisomerase (DNA) III beta
BG075608		Tpi1	Triosephosphate isomerase 1
BG073370		Ttc3	Tetratricopeptide repeat domain 3
BG067233		Ttc32	Tetratricopeptide repeat domain 32
BG075001		Uqcrc2	Ubiquinol cytochrome c reductase core protein 2
BG086421		Usmg5	Upregulated during skeletal muscle growth 5
BG074853		Usp34	Ubiquitin specific peptidase 34
BG064874		Usp38	Ubiquitin specific peptidase 38
BG077459		Utrn	Utrophin
BG064839		Wdr1	WD repeat domain 1
BG074348		Wnk4	WNK lysine deficient protein kinase 4
BG074888		Xpo5	Exportin 5
BG074305		Yap1	Yes-associated protein 1
BG067943		Zcchc6	Zinc finger, CCHC domain containing 6
BG078199		Zfp281	Zinc finger protein 281
BG065142		Zfp422	Zinc finger protein 422
BG080714		Zfp708	Zinc finger protein 708
AW537187		EST	
AW553287		EST	
AW558484		EST	
BG066923		EST	
BG067197		EST	
BG067209		EST	
BG067243		EST	
BG067854		EST	
BG067884		EST	
BG068015		EST	

BG072181	EST	
BG072492	EST	
BG073132	EST	
BG073835	EST	
BG074282	EST	
BG074322	EST	Transcribed locus
BG075052	EST	
BG075071	EST	Transcribed locus
BG077103	EST	Transcribed locus
C80679	EST	
C88049	EST	
BG078874	1110061O04Rik	RIKEN cDNA 1110061O04 gene
BG072619	1190002N15Rik	RIKEN cDNA 1190002N15 gene
BG069904	1190005F20Rik	RIKEN cDNA 1190005F20 gene
BG082833	1500003O03Rik	RIKEN cDNA 1500003O03 gene
BQ550748	1700081L11Rik	RIKEN cDNA 1700081L11 gene
BG072777	1810009A15Rik	RIKEN cDNA 1810009A15 gene
BG082886	2010305A19Rik	RIKEN cDNA 2010305A19 gene
BG072618	2310051F07Rik	RIKEN cDNA 2310051F07 gene
AU040786	2410008K03Rik	RIKEN cDNA 2410008K03 gene
BG075517	2410127E18Rik	RIKEN cDNA 2410127E18 gene
BQ550162	2510006D16Rik	RIKEN cDNA 2510006D16 gene
BG072797	2610002J23Rik	RIKEN cDNA 2610002J23 gene
BG085636	2610005L07Rik	RIKEN cDNA 2610005L07 gene
BQ550329	2610030H06Rik	RIKEN cDNA 2610030H06 gene
AU015471	2610529C04Rik	RIKEN cDNA 2610529C04 gene
BG073362	3100004P22Rik	RIKEN cDNA 3100004P22 gene
BG068399	4930432O21Rik	RIKEN cDNA 4930432O21 gene
BG072938	4930473A06Rik	RIKEN cDNA 4930473A06 gene
BG070762	4930589O11Rik	RIKEN cDNA 4930589O11 gene
AW544088	5730449L18Rik	RIKEN cDNA 5730449L18 gene
BG077603	5730494M16Rik	RIKEN cDNA 5730494M16 gene
BG078323	5730536A07Rik	RIKEN cDNA 5730536A07 gene
BG068796	6330581L23Rik	RIKEN cDNA 6330581L23 gene
BG066229	6720457D02Rik	RIKEN cDNA 6720457D02 gene
BG073481	6720475J19Rik	RIKEN cDNA 6720475J19 gene
BQ550664	8030451K01Rik	RIKEN cDNA 8030451K01 gene

BG085732	9130004C02Rik	RIKEN cDNA 9130004C02 gene
BG065753	9130011E15Rik	RIKEN cDNA 9130011E15 gene
BG073315	9130023D20Rik	RIKEN cDNA 9130023D20 gene
BG066056	9130404D08Rik	RIKEN cDNA 9130404D08 gene
AW554339	9630037P07Rik	RIKEN cDNA 9630037P07 gene
BG067331	AA388235	Expressed sequence AA388235
BG073405	AA673488	Expressed sequence AA673488
BG077905	AA881470	EST AA881470
BG067888	Aak1	AP2 associated kinase 1
BG073745	Acbd3	Acyl-Coenzyme A binding domain containing 3
C76711	Aco2	Aconitase 2, mitochondrial
BG073394	Add3	Adducin 3 (gamma)
BG085480	Agrin	Agrin
BG070055	Alg13	Asparagine-linked glycosylation 13 homolog (S. cerevisiae)
BG065639	Ap1gbp1	AP1 gamma subunit binding protein 1
BG077650	Ap2a1	Adaptor protein complex AP-2, alpha 1 subunit
BG085506	Arhgef19	Rho guanine nucleotide exchange factor (GEF) 19
BG070091	Arih1	Ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila)
BG066446	Arih2	Ariadne homolog 2 (Drosophila)
BG081746	Azin1	Antizyme inhibitor 1
BG078265	BC011248	CDNA sequence BC011248
BG065711	BC033606	CDNA sequence BC033606
BQ550263	Bcl7c	B-cell CLL/lymphoma 7C
BG065601	Birc1c	Baculoviral IAP repeat-containing 1c
BG072651	Bnc1	Basonuclin 1
BG066501	Brd1	Bromodomain containing 1
BG077928	C130032J12Rik	RIKEN cDNA C130032J12 gene
BG075437	C80913	Expressed sequence C80913
BG079251	Cab39	Calcium binding protein 39
BG072959	Cacnb3	Calcium channel, voltage-dependent, beta 3 subunit
BG072807	Car8	Carbonic anhydrase 8
BG072723	Ccdc102a	Coiled-coil domain containing 102A
BG072661	Cdc23	CDC23 (cell division cycle 23, yeast, homolog)
BG065644	Cdc5l	Cell division cycle 5-like (S. pombe)
BG066467	Cdh13	Cadherin 13
BQ551701	Cdh23	Cadherin 23 (otocadherin)

BQ550373	Cdh5	Cadherin 5
BG066570	Cdyl2	Chromodomain protein, Y chromosome-like 2
BG065629	Centd1	Centaurin, delta 1
C79238	Chchd3	Coiled-coil-helix-coiled-coil-helix domain containing 3
BG086695	Cluap1	Clusterin associated protein 1
BG068414	Col25a1	Procollagen, type XXV, alpha 1
BG085434	Crebzf	CREB/ATF bZIP transcription factor
BG065899	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
BG086320	Cxcl12	Chemokine (C-X-C motif) ligand 12
BG083209	Cyba	Cytochrome b-245, alpha polypeptide
BG073364	Cyp51	Cytochrome P450, family 51
BG073492	D0H4S114	DNA segment, human D4S114
BG070372	D10Ert641e	DNA segment, Chr 10, ERATO Doi 641, expressed
BG083212	D14Ert668e	DNA segment, Chr 14, ERATO Doi 668, expressed
BG065769	D5Ert135e	DNA segment, Chr 5, ERATO Doi 135, expressed
BG068420	D8Ert457e	DNA segment, Chr 8, ERATO Doi 457, expressed
BG071093	D930036F22Rik	RIKEN cDNA D930036F22 gene
BG073307	Ddx54	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54
BG087920	Dlst	Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
BG070080	Dmgdh	Dimethylglycine dehydrogenase precursor
BG066942	Dnmt3b	DNA methyltransferase 3B
BG066580	Dsg2	Desmoglein 2
BG071581	Dtl	Denticleless homolog (Drosophila)
BG066292	Dtnbp1	Dystrobrevin binding protein 1
BG073959	Eef2	Eukaryotic translation elongation factor 2
BG078920	EG668628	Predicted gene, EG668628
BG075252	Egln1	EGL nine homolog 1 (C. elegans)
BG074119	Eif3s8	Eukaryotic translation initiation factor 3, subunit 8
BG086148	Elp4	Elongation protein 4 homolog (S. cerevisiae)
AU041770	Emid2	EMI domain containing 2
BG069525	Erc4	Excision repair cross-complementing rodent repair deficiency, complementation group 4
BG065623	Etnk1	Ethanolamine kinase 1
BG065915	Etv6	Ets variant gene 6 (TEL oncogene)
BG074856	Fastk	Fas-activated serine/threonine kinase

BG066491		Fhod3	Formin homology 2 domain containing 3
BG070773		Fkbp1a	FK506 binding protein 1a
BG071167		Fndc7	Fibronectin type III domain containing 7
BQ550168		Fnip1	Folliculin interacting protein 1
BG086054		Fstl1	Follistatin-like 1
BG072833		Gnpda2	Glucosamine-6-phosphate deaminase 2
AW547240		Gramd1a	GRAM domain containing 1A
BG072757		Gspt1	G1 to S phase transition 1
BG066009		Gtf3c2	General transcription factor IIIC, polypeptide 2, beta
BG075940		Gtf3b	Gene trap locus F3b
AU041598		H2-K1	Histocompatibility 2, K1, K region
BG069255		Hira	Histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>)
BG085427		Hmgb2	High mobility group box 2
BG073539		Hsd17b10	Hydroxysteroid (17-beta) dehydrogenase 10
BG064506		Il17d	Interleukin 17D
BG082154		Il4	Interleukin 4
BG085435		Impact	Imprinted and ancient
BG064511		Ints5	Integrator complex subunit 5
BG087223		Itga3	Integrin alpha 3
BG072195		Jam3	Junction adhesion molecule 3
BG066271		Kars	Lysyl-tRNA synthetase
BQ551582		Lass6	Longevity assurance homolog 6 (<i>S. cerevisiae</i>)
BG069534		Lman2l	Lectin, mannose-binding 2-like
BG067748		Lrrc8e	Leucine rich repeat containing 8 family, member E
BG065612		Lrrk2	Leucine-rich repeat kinase 2
BG087954		Ltbp1	Latent transforming growth factor beta binding protein 1
BG077319		Lzts2	Leucine zipper, putative tumor suppressor 2
BG070588		Map1lc3b	Microtubule-associated protein 1 light chain 3 beta
BG082854		Mesp2	Mesoderm posterior 2
BG074486		MGC107415	Hypothetical protein LOC383216
BG072685		Mns1	Meiosis-specific nuclear structural protein 1
BG077638		Mrpl19	Mitochondrial ribosomal protein L19
BG077818		Mt1	Metallothionein 1
BG063925		Mt2	Metallothionein 2
BG076620		Myo1e	Myosin IE
BI076789		Myst4	MYST histone acetyltransferase monocytic leukemia 4
BG067031		Narg1	NMDA receptor-regulated gene 1

BG069191	Nasp	Nuclear autoantigenic sperm protein (histone-binding)
BG073427	Nat12	N-acetyltransferase 12
BG073296	Ncam2	Neural cell adhesion molecule 2
BG068017	Ncoa1	Nuclear receptor coactivator 1
BG073415	Nedd4	Neural precursor cell expressed, developmentally down-regulted gene 4
BG071356	Nf1	Neurofibromatosis 1
BG064395	Nfat5	Nuclear factor of activated T-cells 5
BG085596	Npc2	Niemann Pick type C2
AU014844	Ogdh	Oxoglutarate dehydrogenase (lipoamide)
BG067047	Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
BG072813	Opa1	Optic atrophy 1 homolog (human)
BG069555	Osbp18	Oxysterol binding protein-like 8
AW546675	Palld	Palladin, cytoskeletal associated protein
BG065744	Pank3	Pantothenate kinase 3
BG065645	Parl	Presenilin associated, rhomboid-like
BG070555	Pawr	PRKC, apoptosis, WT1, regulator
BG069544	Pde3a	Phosphodiesterase 3A, cGMP inhibited
BG087768	Pde5a	Phosphodiesterase 5A, cGMP-specific
BG084383	Pde6d	Phosphodiesterase 6D, cGMP-specific, rod, delta
BG087899	Pdgfa	Platelet derived growth factor, alpha
BG071525	Pdzd2	PDZ domain containing 2
BG063222	Pecam1	Platelet/endothelial cell adhesion molecule 1
BG087523	Pes1	Pescadillo homolog 1, containing BRCT domain (zebrafish)
BG083442	Pex19	Peroxisome biogenesis factor 19
BG064375	Phactr1	Phosphatase and actin regulator 1
BG078897	Phf12	PHD finger protein 12
BG064503	Phf23	PHD finger protein 23
BG087909	Phka2	Phosphorylase kinase alpha 2
BG072458	Pink1	PTEN induced putative kinase 1
BG078885	Plk4	Polo-like kinase 4 (Drosophila)
BG072843	Pnpt1	Polyribonucleotide nucleotidyltransferase 1
AU021253	Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
BG065773	Ppp2r5c	Protein phosphatase 2, regulatory subunit B (B56), gamma isoform
BG065790	Ppp2r5e	Protein phosphatase 2, regulatory subunit B (B56), epsilon isoform
BG081448	Ppp3cb	Protein phosphatase 3, catalytic subunit, beta isoform

BG065524		Prei3	Preimplantation protein 3
BG079293		Psma3	Proteasome (prosome, macropain) subunit, alpha type 3
BG066125		Psma4	Proteasome (prosome, macropain) subunit, alpha type 4
BQ550154		Psma7	Proteasome (prosome, macropain) subunit, alpha type 7
BG069898		Psmd11	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
BG072746		Psmd7	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
BG086278		Ptn	Pleiotrophin
BG074880		Ptpn6	Protein tyrosine phosphatase, non-receptor type 6
C76941		Ranbp5	RAN binding protein 5
BG066306		Ranbp9	RAN binding protein 9
BG068432		Rap1a	RAS-related protein-1a
BG082817		Rb1	Retinoblastoma 1
BG078834		Renbp	Renin binding protein
BG072059		Rex2	Reduced expression 2
BG072629		Rhbdd3	Rhomboid domain containing 3
BG087931		Rhoa	Ras homolog gene family, member A
BG075372		Rpa2	Replication protein A2
BG085647		Rpl23a	Ribosomal protein L23a
BG073438		Rpl38	Ribosomal protein L38
BG072819		Rpsa	Ribosomal protein SA
BG072662		Runx1	Runt related transcription factor 1
BG072412		Sdk1	Sidekick homolog 1 (chicken)
BG085555		Sec23ip	Sec23 interacting protein
BG078882		Serpinh6c	Serine (or cysteine) peptidase inhibitor, clade B, member 6c
BG086781		Setdb1	SET domain, bifurcated 1
AW557944		Sfrs14	Splicing factor, arginine/serine-rich 14
BG073339		Sfrs5	Splicing factor, arginine/serine-rich 5 (SRp40, HRS)
AW539785		Sh3bp5l	SH3 binding domain protein 5 like
BG085411		Slbp	Stem-loop binding protein
BG085656		Smc1a	Structural maintenance of chromosomes 1A
BG077930		Snx10	Sorting nexin 10
BG088731		Spag9	Sperm associated antigen 9
BQ550417		Srgap2	SLIT-ROBO Rho GTPase activating protein 2
BG071533		Srpk2	Serine/arginine-rich protein specific kinase 2
BG069945		Stag2	Stromal antigen 2
BG070349		Taf1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor

BG076896		Tardbp	TAR DNA binding protein
BG087876		Tbc1d1	TBC1 domain family, member 1
BG072734		Tcf25	Transcription factor 25 (basic helix-loop-helix)
BG064989		Tcta	T-cell leukemia translocation altered gene
AW557486		Tdrd9	Tudor domain containing 9
BG088528		Tdrkh	Tudor and KH domain containing protein
BG087942		Tfdp1	Transcription factor Dp 1
BG085629		Tfip11	Tuftelin interacting protein 11
BG086192		Tgfb1i1	Transforming growth factor beta 1 induced transcript 1
AW553913		Tinagl	Tubulointerstitial nephritis antigen-like
BG075363		Tmem64	Transmembrane protein 64
AW550270		Tnc	Tenascin C
BG069517		Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12
BG062981		Tprkb	Tp53rk binding protein
BG075295		Traf3ip1	TNF receptor-associated factor 3 interacting protein 1
BG082843		Trrap	Transformation/transcription domain-associated protein
BG066560		Tubgcp5	Tubulin, gamma complex associated protein 5
BG079504		Tug1	Taurine upregulated gene 1
BQ552073		Ufd1l	Ubiquitin fusion degradation 1 like
BG074836		Usp4	Ubiquitin specific peptidase 4 (proto-oncogene)
BG076105		Utx	Ubiquitously transcribed tetratricopeptide repeat gene, X chromosome
BG065616		Vcp	Valosin containing protein
BG087363		Vps45	Vacuolar protein sorting 45 (yeast)
AU041113		Vps54	Vacuolar protein sorting 54 (yeast)
BG076009		Wdr24	WD repeat domain 24
BG073328		Xrcc4	X-ray repair complementing defective repair in Chinese hamster cells 4
BG076045		Zbed3	Zinc finger, BED domain containing 3
BG069367		Zfand2b	Zinc finger, AN1 type domain 2B
BG066683		Zfp292	Zinc finger protein 292
BG086136		Zfp51	Zinc finger protein 51
BG065890		Zfp710	Zinc finger protein 710
AU042966		EST	
AW540949		EST	
AW544782		EST	
AW546571		EST	Transcribed locus

AW546889	EST
AW550178	EST
AW552212	EST
AW554424	EST
AW556484	EST
AW557711	EST
AW558132	EST
BG063053	EST
BG063089	EST
BG063092	EST
BG063195	EST
BG063398	EST
BG063665	EST
BG063767	EST
BG063945	EST
BG064209	EST
BG064514	EST
BG064695	EST
BG065593	EST
BG065610	EST
BG065611	EST
BG065622	EST
BG065635	EST
BG065650	EST
BG065651	EST
BG065657	EST
BG065659	EST
BG065666	EST
BG065670	EST
BG065839	EST
BG065991	EST
BG065992	EST
BG066008	EST
BG066066	EST
BG066090	EST
BG066122	EST

Transcribed locus

2 cells egg cDNA, RIKEN full-length enriched library, clone:B020036G17
product:unclassifiable, full insert sequence

Transcribed locus

BG066341		EST
BG066345		EST
BG066362		EST
BG066371		EST
BG066412		EST
BG066561		EST
BG066579		EST
BG066598		EST
BG066647		EST
BG066670		EST
BG066711		EST
BG066778		EST
BG066821		EST
BG066997		EST
BG068069		EST
BG068097		EST
BG068123		EST
BG068347		EST
BG068410		EST
BG068421		EST
BG068426		EST
BG068436		EST
BG068456		EST
BG068461		EST
BG068469		EST
BG068472		EST
BG068684		EST
BG068784		EST
BG068840		EST
BG069091		EST
BG069113		EST
BG069363		EST
BG069501		EST
BG069545		EST
BG070115		EST
BG070250		EST

Transcribed locus

Transcribed locus, strongly similar to XP_895654.1 similar to protein kinase LYK5 [Mus musculus]

BG070256		EST	
BG070301		EST	
BG070436		EST	
BG070548		EST	Transcribed locus
BG070556		EST	
BG070725		EST	Transcribed locus
BG071290		EST	
BG071357		EST	
BG071376		EST	
BG071395		EST	
BG071436		EST	Transcribed locus, weakly similar to NP_982429.1 [Eremothecium gossypii]
BG071862		EST	
BG072130		EST	
BG072400		EST	
BG072687		EST	
BG072745		EST	
BG073298		EST	
BG073317		EST	
BG074049		EST	
BG074646		EST	
BG074775		EST	
BG074788		EST	
BG074909		EST	Transcribed locus, weakly similar to XP_573813.1 similar to envelope protein [Rattus norvegicus]
BG075263		EST	
BG075264		EST	
BG075276		EST	
BG075339		EST	
BG075416		EST	
BG075634		EST	
BG075971		EST	
BG075999		EST	
BG076724		EST	
BG076725		EST	
BG079181		EST	
BG079400		EST	

BG081451		EST
BG083989		EST
BG084956		EST
BG086296		EST
BI076837		EST
BQ550180		EST
BQ550186		EST
BQ550353		EST
BQ550502		EST
BQ551838		EST
BQ552150		EST
C76156		EST
C79706		EST
C79832		EST

CDNA clone IMAGE:1548559

TableS3. Functional categories of mouse CNS known AAGs

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.

Red color represents upregulation; blue color represents downregulation.

CORTEX

16M/6M	Z-ratio 24M/6M	24M/16M	Acc	Symbol	Name
DNA replication & repair					
-2.96	1.19	3.71	BG088404	Polr2d	Polymerase (RNA) II (DNA directed) polypeptide D
-1.12	1.29	2.20	BG076133	Nme6	Expressed in non-metastatic cells 6, protein
-0.27	1.63	1.78	BG076129	Pcm1	Pericentriolar material 1
0.72	1.56	0.84	BG073493	Dnmt3a	DNA methyltransferase 3A
0.40	-1.45	-1.72	BG084543	Atrx	Alpha thalassemia/mental retardation syndrome X-linked homolog (human)
-0.38	-1.77	-1.34	BG066559	Tnks1bp1	Tankyrase 1 binding protein 1
0.10	-1.64	-1.64	BG072056	Cenpa	Centromere autoantigen A
-0.37	-1.64	-1.22	BG079733	Rrm2	Ribonucleotide reductase M2
0.31	-1.62	-1.80	BG086091	Terf1	Telomeric repeat binding factor 1
1.00	-1.24	-2.04	BG072681	Tebp	Telomerase binding protein, p23
0.21	-1.63	-1.73	BG084595	Wrn	Werner syndrome homolog (human)
Transcription regulators					
-0.38	1.72	1.96	BG088931	Sall2	Sal-like 2 (Drosophila)
0.52	1.61	1.06	BG086240	Cnbp1	Cellular nucleic acid binding protein 1
-0.84	1.61	2.26	BG076353	Atbf1	AT motif binding factor 1
-1.81	0.64	2.18	BG088871	Gata4	GATA binding protein 4
-0.50	1.33	1.69	BG076162	Zfp612	Zinc finger protein 612
-1.21	0.65	1.67	BG076335	Zfp644	Zinc finger protein 644
-0.09	-1.95	-1.76	BG073061	Asxl2	Additional sex combs like 2 (Drosophila)
-0.33	-1.66	-1.28	BQ550368	Tcfap2c	Transcription factor AP-2, gamma
-0.10	-1.53	-1.36	BG069830	Zdhhc7	Zinc finger, DHHC domain containing 7
-0.30	-1.64	-1.28	BG084492	Zfpn1a4	Zinc finger protein, subfamily 1A, 4 (Eos)
0.89	-0.87	-1.61	BG070643	Hdac2	Histone deacetylase 2
-0.31	-1.68	-1.32	BG065852	Rcor1	REST corepressor 1
1.97	-0.27	-1.97	BG085534	Tcf4	Transcription factor 4
-0.07	-1.65	-1.49	BG066582	B430306D02Rik	RIKEN cDNA B430306D02 gene
-0.18	-2.04	-1.77	BQ550611	Smad2	MAD homolog 2 (Drosophila)

-0.20	-1.83	-1.55	BG083661	Ilf3	Interleukin enhancer binding factor 3
-0.05	-1.68	-1.55	BG070913	Ankrd25	Ankyrin repeat domain 25
0.52	-1.83	-2.18	BG066724	Asb8	Ankyrin repeat and SOCS box-containing protein 8
0.76	-1.07	-1.68	BG072053	Nr2e1	Nuclear receptor subfamily 2, group E, member 1
-0.52	-1.62	-1.07	BG086487	E2f6	E2F transcription factor 6
-0.89	-2.01	-1.12	BG066250	Tbx20	T-box 20
0.69	-1.85	-2.36	BG066700	Nol7	Nucleolar protein 7
0.34	-1.38	-1.60	BG068694	Nup155	Nucleoporin 155
0.33	-1.38	-1.59	AA409025	D330024H06Rik	RIKEN cDNA D330024H06 gene
-0.18	-2.38	-2.10	BG066541	Pbx3	RIKEN cDNA B930068K11 gene
RNA editing/processing					
-1.84	1.56	3.08	BG076185	Ptbp2	Polypyrimidine tract binding protein 2
-3.98	1.04	4.47	BQ552701	Fusip1	FUS interacting protein (serine-arginine rich) 1
-1.29	1.00	2.08	BG076501	Sfrs6	Splicing factor, arginine/serine-rich 6
0.51	2.06	1.50	BG064006	Nono	Non-POU-domain-containing, octamer binding protein
-0.75	1.02	1.62	AW559082	Rbm9	RNA binding motif protein 9
-0.69	-1.75	-1.05	BG081012	Snrpb2	U2 small nuclear ribonucleoprotein B
1.40	-0.61	-1.80	BG076765	Hnrpc	Heterogeneous nuclear ribonucleoprotein C
1.38	-1.40	-2.53	BG070676	2600011C06Rik	RIKEN cDNA 2600011C06 gene
Protein synthesis/ degradation					
-1.77	1.07	2.56	BQ550136	Eif4a1	Eukaryotic translation initiation factor 4A1
-0.65	1.18	1.68	BG075206	Rpl6	Ribosomal protein L6
-2.14	-0.24	1.64	BQ550060	Rpn1	Ribophorin I
-1.37	2.15	3.22	BG067405	Trip12	Thyroid hormone receptor interactor 12
0.39	2.28	1.81	BG074120	Fbxo42	F-box protein 42
-0.89	1.52	2.22	BG076166	Ube2e1	Ubiquitin-conjugating enzyme E2E 1, UBC4/5 homolog (yeast)
-1.09	2.07	2.91	BG075872	Usp25	Ubiquitin specific protease 25
0.39	1.62	1.18	BG085556	Wwp1	WW domain containing E3 ubiquitin protein ligase 1
-0.97	1.19	1.98	BG076167	Galnt1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1
0.13	-1.52	-1.55	BG070889	Qtr1	Queuine tRNA-ribosyltransferase 1
1.15	-0.67	-1.64	BG084974	Fbxo22	F-box only protein 22
0.34	-1.41	-1.63	BG073773	Eef1a1	Eukaryotic translation elongation factor 1 alpha 1
0.72	-1.09	-1.66	BG078898	Lgtn	Ligatin
0.15	-1.63	-1.67	BG086177	Rpl3	Ribosomal protein L3
0.33	-1.81	-2.01	BG083198	Paip2	RIKEN cDNA A230062I15 gene
-0.31	-2.18	-1.79	BG079790	Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble

0.85	-1.49	-2.15	AU040781	Rbx1	Ring-box 1
-0.34	-1.76	-1.37	BG066227	Cul1	Cullin 1
1.34	-0.38	-1.53	BG085494	Cul3	Cullin 3
0.99	-0.91	-1.72	BG065633	Psmb2	Proteasome (prosome, macropain) subunit, beta type 2
0.29	-1.39	-1.57	BQ550339	Ube3a	Ubiquitin protein ligase E3A
0.45	-1.40	-1.71	BG065689	Ube2l3	Ubiquitin-conjugating enzyme E2L 3
0.62	-1.70	-2.14	BQ551030	AI840826	Expressed sequence AI840826
-0.14	-2.15	-1.90	BQ550937	Cyld	Cylindromatosis (turban tumor syndrome)
-0.52	-1.52	-0.98	BG078870	Mkrn1	Makorin, ring finger protein, 1
0.34	-1.29	-1.52	BG079508	Tbl1x	Transducin (beta)-like 1 X-linked

Signal transduction

-0.31	1.52	1.71	BG088924	Phkb	Phosphorylase kinase beta
-2.54	0.52	2.71	BG087779	Sumo2	YEATS domain containing 2
-0.15	1.78	1.81	BG086567	Wbp5	WW domain binding protein 5
0.37	1.50	1.09	BG073826	Lrrtm1	Leucine rich repeat transmembrane neuronal 1
-0.96	1.44	2.20	BG073860	Armxc1	Armadillo repeat containing, X-linked 1
0.45	2.11	1.60	BG076894	Mybbp1a	MYB binding protein (P160) 1a
-0.45	2.21	2.48	BG088909	Tle6	Transducin-like enhancer of split 6, homolog of Drosophila E(spl)
-1.78	0.04	1.59	BG076410	Wnt4	Wingless-related MMTV integration site 4
-1.67	0.86	2.27	BG073875	Esr1	Estrogen receptor 1 (alpha)
-0.65	1.17	1.68	BG076153	Dusp7	Dual specificity phosphatase 7
-1.37	0.75	1.92	BG076155	Rab14	RAB, member of RAS oncogene family-like 4
-0.76	0.88	1.50	BG085728	Snrp116	U5 small nuclear ribonucleoprotein
-0.85	1.72	2.38	BG088950	Rac1	RAS-related C3 botulinum substrate 1
-1.87	0.36	1.98	BG076387	Rab3d	RAB3D, member RAS oncogene family
-1.79	1.64	3.11	BG075229	Atrn1	Attractin like 1
-0.82	1.31	1.96	BG086577	Ptger2	Prostaglandin E receptor 2 (subtype EP2)
-2.37	1.71	3.69	BG075873	2810442O16Rik	RIKEN cDNA 2810442O16 gene
0.48	-1.36	-1.71	BG074650	Pip3ap	Phosphatidylinositol-3-phosphatase associated protein
-0.28	-1.76	-1.41	BG078875	Lzf	Leucine zipper domain protein
0.87	-0.86	-1.57	BG074685	Lrprrc	Leucine-rich PPR-motif containing
0.85	-1.09	-1.77	BG072073	Wdr10	WD repeat domain 10
1.99	-0.56	-2.27	BG072042	Rapgef2	RIKEN cDNA B930012P20 gene
-0.51	-1.63	-1.09	BG073784	Tmem19	Transmembrane protein 19
0.20	-1.82	-1.90	BG079566	Btrc	Beta-transducin repeat containing protein
0.11	-1.63	-1.63	BG079870	Caml	Calcium modulating ligand
-0.03	-1.56	-1.45	BQ551117	Wee1	Wee 1 homolog (S. pombe)

-0.01	-1.60	-1.50	BG066540	Nlk	Nemo like kinase
-0.68	-1.66	-0.97	BG065577	Ptprg	Protein tyrosine phosphatase, receptor type, G
0.42	-1.33	-1.63	BQ550366	Prkar2a	Protein kinase, cAMP dependent regulatory, type II alpha
0.81	-0.88	-1.54	BG073058	Tle1	Transducin-like enhancer of split 1, homolog of Drosophila E(spl)
-0.58	-1.84	-1.24	BQ551136	Slc9a3r1	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1
0.54	-1.23	-1.64	BG071336	Prkab1	Protein kinase, AMP-activated, beta 1 non-catalytic subunit
-0.76	-1.90	-1.13	BG069385	Stat2	Signal transducer and activator of transcription 2
0.14	-1.74	-1.77	BG084491	Tjp2	Tight junction protein 2
-0.47	-2.06	-1.53	BG069506	Arhgef7	Rho guanine nucleotide exchange factor (GEF7)
0.08	-1.67	-1.64	BG072044	Garnl1	GTPase activating RANGAP domain-like 1
0.92	-1.06	-1.80	AU041357	Rhod	Ras homolog gene family, member D
-0.33	-1.90	-1.51	BG080027	Kras2	Kirsten rat sarcoma oncogene 2, expressed
0.65	-1.55	-2.03	BG070713	Rsb30	RIKEN cDNA 2010107C10 gene
0.61	-1.19	-1.66	BQ551650	Rab10	RAB10, member RAS oncogene family
1.02	-1.16	-1.98	BG070800	Mlstd2	Male sterility domain containing 2
-0.31	-1.60	-1.24	C80870	C130002K18Rik	RIKEN cDNA C130002K18 gene
1.35	-0.39	-1.56	BG071346	Trim34	Tripartite motif protein 34
-0.12	-1.65	-1.45	BG068302	Acvrinp1	Activin receptor interacting protein 1
0.07	-2.19	-2.13	BG078928	Stmn3	Stathmin-like 3
-0.25	-1.65	-1.34	BQ552244	Snap23	Synaptosomal-associated protein 23
-0.56	-1.67	-1.09	AU041764	Ssr1	Signal sequence receptor, alpha
1.49	-0.49	-1.77	BG083482	Chek2	CHK2 checkpoint homolog (S. pombe)
1.44	-0.34	-1.58	BG072113	Ptk2	PTK2 protein tyrosine kinase 2
-0.21	-1.52	-1.25	BQ550574	Cask	Calcium/calmodulin-dependent serine protein kinase
Growth factors & signaling					
-0.89	1.04	1.76	BG088567	Igfbp3	Insulin-like growth factor binding protein 3
-0.57	1.69	2.10	BG072273	Eps15	Epidermal growth factor receptor pathway substrate 15
Channels & transporters					
-0.66	1.81	2.28	AW559127	Kcnq1	Tumor-suppressing subchromosomal transferable fragment 8
0.61	2.04	1.39	BG063515	Fth1	Ferritin heavy chain 1
0.70	-0.95	-1.51	BG077733	Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
0.41	-1.24	-1.53	BG070244	Atad1	ATPase family, AAA domain containing 1
0.64	-1.44	-1.91	BG070322	Cacng5	Calcium channel, voltage-dependent, gamma subunit 5
0.66	-1.13	-1.65	BQ550634	Scn3a	Sodium channel, voltage-gated, type III, alpha polypeptide
-0.68	-1.90	-1.20	BG066550	Kctd5	Potassium channel tetramerisation domain containing 5
0.62	-1.31	-1.78	BG069589	Kcnk6	Potassium inwardly-rectifying channel, subfamily K, member 6

0.73	-1.21	-1.78	BQ551887	Slc9a6	Solute carrier family 9 (sodium/hydrogen exchanger), isoform 6
-0.71	-1.53	-0.83	BG069386	Slco4c1	Solute carrier organic anion transporter family, member 4C1
-0.90	-1.91	-1.01	BG066925	Pkd1l3	Polycystic kidney disease 1 like 3

Cytoskeleton

-1.05	0.76	1.64	BQ550178	Ipp	IAP promoted placental gene
0.98	-0.82	-1.63	C78835	Actb	Actin, beta, cytoplasmic
-0.33	-1.70	-1.32	BG073057	Gc	Group specific component
-0.72	-1.74	-1.02	BG079442	Cnn2	Calponin 2
0.21	-1.58	-1.67	BG066589	Dmd	Dystrophin, muscular dystrophy
0.53	-1.50	-1.88	BG073379	Nckap1	NCK-associated protein 1
0.27	-1.56	-1.71	BG072383	Mastl	Microtubule associated serine/threonine kinase-like
0.65	-1.60	-2.08	BG082602	Mark3	MAP/microtubule affinity-regulating kinase 3
-0.65	-1.68	-1.02	BG081076	Tcl1	T-cell lymphoma breakpoint 1

Trafficking

-1.53	0.43	1.75	BQ550079	Cltb	Clathrin, light polypeptide (Lcb)
-2.11	1.34	3.11	BG075825	Kifc2	Kinesin family member C2
-2.20	1.33	3.18	BG088723	Dbnl	Drebrin-like
-0.62	1.89	2.33	BG088908	Mid1ip1	Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish))
-0.11	-1.59	-1.40	BG084924	Dncl1c1	RIKEN cDNA 1110053F02 gene
1.29	-0.68	-1.78	AU041102	Cobl	Cordon-bleu
1.80	-0.03	-1.60	BG073340	4921524J06Rik	RIKEN cDNA 4921524J06 gene

Stress response

-1.06	1.45	2.30	BG088391	Cryl1	Crystallin, lamda 1
-0.35	1.40	1.63	BG088662	Pex12	Peroxisomal biogenesis factor 12
-1.21	1.35	2.33	BG088691	Pex16	Peroxisome biogenesis factor 16
-0.18	-1.56	-1.31	BG079699	Cct4	Chaperonin subunit 4 (delta)
0.32	-1.45	-1.65	BG080972	Crygb	Crystallin, gamma C
-0.25	-1.65	-1.34	BQ551761	Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)

Immuno responsive genes

-0.62	1.83	2.27	BG076373	Ccl27	Chemokine (C-C motif) ligand 27
0.42	1.99	1.51	BG072788	Atrn	Attractin
-0.93	1.16	1.91	BG088888	Elmo2	Engulfment and cell motility 2, ced-12 homolog (C. elegans)
-1.11	1.27	2.17	BQ550096	Prdx2	Peroxiredoxin 2
-2.57	-0.57	1.71	BG075069	Ptdsr	Phosphatidylserine receptor
-1.55	0.60	1.92	BG088850	Lnk	Linker of T-cell receptor pathways
-1.33	0.40	1.54	BG064530	Traf4	Tnf receptor associated factor 4
-0.11	1.63	1.64	BG086230	Traf7	Tnf receptor-associated factor 7

0.20	-1.46	-1.55	BG074640	Il10ra	Interleukin 10 receptor, alpha
1.79	-1.47	-2.96	BG084192	Ik	IK cytokine
0.50	-1.23	-1.60	BG070734	Dock1	Dedicator of cyto-kinesis 1
0.37	-1.34	-1.59	BG071362	Pycard	PYD and CARD domain containing
Mitochondria					
0.21	1.79	1.51	AW558029	Uqcr	Ubiquinol-cytochrome c reductase (6.4kD) subunit
-0.98	1.36	2.15	AW555640	Immt	Inner membrane protein, mitochondrial
-0.73	0.93	1.52	BG076156	Mtx1	Metaxin 1
-0.91	0.75	1.50	BG085643	Hba-x	Hemoglobin X, alpha-like embryonic chain in Hba complex
0.43	1.84	1.36	BG077751	Phb	Prohibitin
-0.43	-1.65	-1.18	BG077638	Mrpl19	Mitochondrial ribosomal protein L19
-0.50	-1.52	-1.01	BG078810	Cycc	Cytochrome c, somatic
-0.97	-2.62	-1.63	BG071689	Tbc1d15	TBC1 domain family, member 15
-0.57	-1.82	-1.22	BG069853	Uqcrc1	Ubiquinol-cytochrome c reductase core protein 1
-0.60	-2.16	-1.52	BG066539	Cyp2s1	Cytochrome P450, family 2, subfamily s, polypeptide 1
0.29	-1.42	-1.60	BG083644	Por	P450 (cytochrome) oxidoreductase
0.25	-1.58	-1.71	BG075303	Cryz1	Crystallin, zeta (quinone reductase)-like 1
1.12	-0.75	-1.69	BG084240	Ndufs7	NADH dehydrogenase (ubiquinone) Fe-S protein 7
-0.13	-1.69	-1.49	BG079485	Ndufa10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10
-0.31	-1.58	-1.22	BG074411	Scarb2	Scavenger receptor class B, member 2
-0.41	-1.79	-1.33	BG086172	Abcd4	ATP-binding cassette, sub-family D (ALD), member 4
Cell cycle					
-1.10	0.80	1.72	AW551875	Hirip5	Histone cell cycle regulation defective interacting protein 5
-0.64	2.10	2.54	BG088667	Sesn1	Sestrin 1
2.01	-0.36	-2.10	BG073423	Cdk9	Cyclin-dependent kinase 9 (CDC2-related kinase)
0.72	-0.96	-1.53	BG066572	Cables1	DNA segment, Chr 18, ERATO Doi 289, expressed
0.60	-1.71	-2.14	BG069528	5730405I09Rik	RIKEN cDNA 5730405I09 gene
0.37	-1.54	-1.77	AU046176	2810418N01Rik	RIKEN cDNA 2810418N01 gene
0.82	-1.08	-1.74	BG086082	2810406C15Rik	RIKEN cDNA 2810406C15 gene
Glucose metabolism					
-1.42	0.82	2.02	BG087642	Glo1	Glyoxalase 1
-1.78	0.03	1.59	BG075232	Aox3	Aldehyde oxidase 3
-0.71	-1.78	-1.06	BG066158	Car12	Carbonic anhydrase 12
-0.42	-1.70	-1.23	BG071667	Pgm211	Phosphoglucomutase 2-like 1
1.84	-0.43	-2.02	BG071483	Prune	Prune homolog (Drosophila)
0.69	-1.07	-1.61	BG084276	Mdh2	Malate dehydrogenase 2, NAD (mitochondrial)
Lipid metabolism					

0.79	-1.06	-1.70	BG070255	Pde7a	Phosphodiesterase 7A
0.32	-1.40	-1.60	BG071685	Ptdss1	Phosphatidylserine synthase 1
1.01	-0.79	-1.63	BG066483	Lrp2	Low density lipoprotein receptor-related protein 2
-0.34	-2.37	-1.95	BG071626		Similar to glyceraldehyde-3-phosphate dehydrogenase
Amino acid modification					
-1.69	2.24	3.59	BG075862	Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1
-1.45	0.61	1.85	BG087174	Gmppa	GDP-mannose pyrophosphorylase A
-1.79	0.42	1.96	BG087780	Gstm6	Glutathione S-transferase, mu 6
-0.63	1.29	1.78	BG076142	Tdh	L-threonine dehydrogenase
-3.16	-0.81	2.00	BQ550139	Mat2a	Methionine adenosyltransferase II, alpha
0.23	1.53	1.24	BG067932	Glul	RIKEN cDNA 5830403L16 gene
0.44	-1.28	-1.60	C76424	Lhfp12	Lipoma HMGIC fusion partner-like 2
-0.23	-2.21	-1.89	BG070986	Oaz2	Ornithine decarboxylase antizyme 2

HIPPOCAMPUS

16M/6M	Z-ratio 24M/6M	24M/16M	Acc	Symbol	Name
DNA replication & repair					
-1.40	-0.19	1.54	BG072344	Orc1l	origin recognition complex, subunit 1-like (S.cereviaiae)
-1.69	-0.33	1.77	BG075119	Papolg	poly(A) polymerase gamma
-1.71	-0.63	1.54	BG077083	Rad1	RAD1 homolog (S. pombe)
-1.25	0.81	2.22	BG082619	Pcnt2	pericentrin 2
1.28	-0.81	-2.27	BG078138	Rrm2	ribonucleotide reductase M2
1.40	-0.13	-1.83	BG078448	Atrx	alpha thalassemia/mental retardation syndrome X-linked homolog (human)
Transcription regulators					
0.82	2.51	1.18	BG063946	Rest	RE1-silencing transcription factor
-1.45	-0.01	1.75	AU018221	Wwtr1	WW domain containing transcription regulator 1
-2.26	-1.08	1.82	BG070672	Zfp9	zinc finger protein 9
-1.24	-0.01	1.51	BG085297	Jarid1b	jumonji, AT rich interactive domain 1B (Rbp2 like)
1.42	-0.51	-2.18	BG064405	Elys	transcription factor ELYS
1.55	0.03	-1.86	BG065185	3930401K13Rik	cytokine-like nuclear factor n-pac
0.84	-0.81	-1.74	BG067709	Mll3	myeloid/lymphoid or mixed-lineage leukemia 3
1.41	-0.83	-2.45	BG069830	Zdhhc7	zinc finger, DHHC domain containing 7
0.38	-1.46	-1.73	BG072572	Rsbn1	rosbin, round spermatid basic protein 1
1.56	0.12	-1.80	BG073039	Rxrb	retinoid X receptor beta

1.56	-0.46	-2.30	BG063728	Morf4l2	mortality factor 4 like 2
1.58	0.23	-1.73	BG073487	Znf335	zinc finger protein 335
0.91	-0.58	-1.61	BG077765	Sox8	SRY-box containing gene 8
1.18	-0.72	-2.07	BG078528	Pou5f1	POU domain, class 5, transcription factor 1
0.45	-1.97	-2.26	BG085989	Zfp313	zinc finger protein 313
0.76	-0.90	-1.71	BG086134	Zc3hc1	zinc finger, C3HC type 1
0.23	-1.43	-1.52	BG086487	E2f6	E2F transcription factor 6
-0.96	-1.52	-0.16	BG075210	Ss18l1	Synovial sarcoma translocation gene on chromosome 18-like 1

RNA editing/processing

0.48	1.64	0.83	BG075383	Sfrs2ip	Splicing factor, arginine/serine-rich 2, interacting protein
1.09	-0.40	-1.67	BG064438	Rod1	ROD1 regulator of differentiation 1 (S. pombe)
1.17	-1.34	-2.59	BG068906	Cpeb1	cytoplasmic polyadenylation element binding protein 1
1.17	-0.16	-1.57	BG074423	Cstf1	cleavage stimulation factor, 3' pre-RNA, subunit 1
1.43	-0.51	-2.19	BG076934	Rnu64	RNA, U64 small nucleolar
1.42	-0.52	-2.19	BG078516	Rg9mtd1	RNA (guanine-9-) methyltransferase domain containing 1
1.55	0.09	-1.82	BG078617	Sf3b2	splicing factor 3b, subunit 2
-0.83	-1.60	-0.38	BG085762	Prpf31	PRP31 pre-mRNA processing factor 31 homolog (yeast)
-0.78	-1.53	-0.38	BG085724	Pabpn1	Poly(A) binding protein, nuclear 1
-1.01	-1.73	-0.28	BG072729	3000004N20Rik	RIKEN cDNA 3000004N20 gene

Protein synthesis/ degradation

-2.07	-0.62	1.99	BQ551776	Fbxo30	F-box protein 30
-1.48	0.11	1.89	BG083613	Usp1	ubiquitin specific protease 1
-1.28	0.06	1.61	BG079065	Adam15	a disintegrin and metalloproteinase domain 15 (metargidin)
0.63	1.95	0.92	BG076525	Rnf2	Ring finger protein 2
-1.29	0.40	1.93	BG070824	Pzp	pregnancy zone protein
-1.19	0.21	1.63	BG071220	Rnf19	ring finger protein (C3HC4 type) 19
1.33	-0.14	-1.75	BG063829	D3Ert194e	DNA segment, Chr 3, ERATO Doi 194, expressed
1.40	-0.13	-1.82	BG063847	Rpl8	ribosomal protein L8
1.90	0.30	-2.06	BG063881	Neu1	neuraminidase 1
1.24	-1.31	-2.65	BG064817	Arbp	acidic ribosomal phosphoprotein P0
1.78	-0.03	-2.20	BG064820	Uble1a	ubiquitin-like 1 (sentrin) activating enzyme E1A
1.10	-0.73	-1.98	BG065053	Psmc3	proteasome (prosome, macropain) 26S subunit, ATPase 3
1.28	-0.89	-2.33	BG065197	Rpl5	ribosomal protein L5
1.24	-1.65	-2.95	BG068918	Rps27a	ribosomal protein S27a
1.15	-1.08	-2.34	BG069806	Ubc	ubiquitin C
-0.77	-1.70	-0.54	BG086013	Rnf10	Ring finger protein 10
1.07	-0.48	-1.73	BG073524	Spint2	serine protease inhibitor, Kunitz type 2

0.21	-1.50	-1.56	BG076882	Hars	histidyl-tRNA synthetase
0.72	-0.85	-1.62	BG076993	Rrbp1	ribosome binding protein 1
1.01	-0.87	-1.99	BG077726	Rps15	ribosomal protein S15
0.66	-0.87	-1.55	BG078442	Rpl15	ribosomal protein L15
1.45	-0.68	-2.35	BG082755	E130209G04Rik	ubiquitin ligase E3 alpha-II
0.09	-2.01	-1.85	BG086430	Rpl31	ribosomal protein L31
0.87	-0.96	-1.89	BG086722	Uchl1	ubiquitin carboxy-terminal hydrolase L1
0.49	-1.67	-2.05	BQ552732	Uba52	ubiquitin A-52 residue ribosomal protein fusion product 1

Signal transduction

-2.57	-0.66	2.56	BG065928	Dlg7	discs, large homolog 7 (Drosophila)
0.49	2.29	1.39	BG077310	Pdlim2	PDZ and LIM domain 2
-1.79	-0.39	1.84	BG073943	Ppib	casein kinase 1, gamma 1
-2.28	-0.80	2.08	BG079475	Pik4ca	phosphatidylinositol 4-kinase, catalytic, alpha polypeptide
-1.43	-0.15	1.62	BG079960	Prkcz	protein kinase C, zeta
-1.83	-0.37	1.91	BG079971	Rpgrip1	retinitis pigmentosa GTPase regulator interacting protein 1
-1.67	0.44	2.42	BG081778	Dock4	dedicator of cytokinesis 4
-2.29	-0.32	2.51	BQ551164	Pask	PAS domain containing serine/threonine kinase
0.69	1.90	0.81	BG088924	Phkb	Phosphorylase kinase beta
0.45	1.72	0.95	BG072887	Btbd9	BTB (POZ) domain containing 9
-2.67	-0.49	2.83	BG082484	Rgs12	regulator of G-protein signaling 12
-0.78	0.71	1.56	BG083317	Net1	neuroepithelial cell transforming gene 1
0.97	-1.20	-2.22	BG081944	Tm4sf9	transmembrane 4 superfamily member 9
1.19	-0.50	-1.88	BG085625	Prkci	protein kinase C, iota
0.92	-0.78	-1.79	BG086188	Ptprg	protein tyrosine phosphatase, receptor type, G
0.72	-0.98	-1.73	BG087449	Acp1	acid phosphatase 1, soluble
-0.75	-1.65	-0.52	AU041764	Ssr1	Signal sequence receptor, alpha
0.80	-1.53	-2.30	BG076617	Calm1	calmodulin 1
0.09	-1.98	-1.82	AW537940	Calm2	calmodulin 2
0.74	-0.80	-1.60	BG063138	Spock2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2
1.96	0.74	-1.75	BG063734	Phip	pleckstrin homology domain interacting protein
1.83	0.69	-1.64	BG063736	Nlk	nemo like kinase
0.82	-0.83	-1.72	BG064066	Pip5k1c	phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma
1.29	-1.68	-3.03	BG065409	Pla2g6	phospholipase A2, group VI
1.22	-0.31	-1.75	BG073320	Csnk1g1	recombination activating gene 1 gene activation

Growth factors & signaling

-1.47	-0.12	1.68	BQ551924	IGF-1RP	Insulin-like growth factor I receptor precursor
-1.23	0.36	1.81	BG065093	Agtrap	angiotensin II, type I receptor-associated protein

-2.16	-0.16	2.50	BG083489	Nrg4	neuregulin 4
-1.76	-0.70	1.54	BG087265	Hdgfrp3	hepatoma-derived growth factor, related protein 3
0.22	-1.76	-1.79	AW551017	Gprasp2	G protein-coupled receptor associated sorting protein 2
1.08	-1.48	-2.61	BG066419	Gpr108	G protein-coupled receptor 108
1.14	-1.61	-2.79	BG068894	Preb	prolactin regulatory element binding
0.46	-1.19	-1.60	BG078343	Ghitm	growth hormone inducible transmembrane protein
0.98	-0.45	-1.59	BG086702	Sh2bpsm1	SH2-B PH domain containing signaling mediator 1
Channels & transporters					
-2.43	-0.65	2.40	BG069378	Kcnh3	potassium voltage-gated channel, subfamily H (eag-related), member 3
-1.69	0.01	2.07	BG069589	Kcnk6	potassium inwardly-rectifying channel, subfamily K, member 6 solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
-1.83	-0.45	1.85	BG084160	Slc11a2	member 2
-0.05	1.72	1.55	BG063524	Slc20a2	solute carrier family 20, member 2
-1.63	-0.11	1.89	BG073944	Slc24a3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3
-1.94	-0.67	1.78	BG079028	Trpm7	transient receptor potential cation channel, subfamily M, member 7
1.15	-0.65	-1.97	BG065445	Clca6	chloride channel calcium activated 6
0.84	-0.70	-1.64	BG073116	Clic1	chloride intracellular channel 1
1.64	-0.51	-2.44	BG077799	Atp6v0c	ATPase, H ⁺ transporting, V0 subunit C
1.37	-0.87	-2.43	BG078464	Slc13a4	solute carrier family 13 (sodium/sulfate symporters), member 4
1.25	-1.12	-2.50	BG078477	Sec13l1	SEC13-like 1 (<i>S. cerevisiae</i>)
1.24	-0.63	-2.05	BG078592	Nsf	N-ethylmaleimide sensitive fusion protein
Cytoskeleton					
0.38	1.63	0.95	BG063659	Ap1s1	Adaptor protein complex AP-1, sigma 1
-3.10	-1.03	2.89	BG069356	Epb4.1l5	erythrocyte protein band 4.1-like 5
0.55	-1.27	-1.77	BG063426	Krt2-7	keratin complex 2, basic, gene 7
1.34	-0.11	-1.73	BG063755	Homer2	homer homolog 2 (<i>Drosophila</i>)
1.91	-0.93	-3.14	BG064831	4930542G03Rik	tubulin Mbeta 3
1.07	-1.15	-2.30	BG064838	Tuba2	tubulin, alpha 2
0.93	-1.58	-2.50	BG065476	Gapd	glyceraldehyde-3-phosphate dehydrogenase
1.27	-0.93	-2.36	BG069796	Klhl2	kelch-like 2, Mayven (<i>Drosophila</i>)
1.11	-1.77	-2.89	BG074228	Klhl5	kelch-like 5 (<i>Drosophila</i>)
1.07	-0.94	-2.12	BG072752	Actg	actin, gamma, cytoplasmic
1.35	-0.88	-2.41	BG077072	Actb	actin, beta, cytoplasmic
1.05	-0.69	-1.88	BG077716	Tubb6	tubulin, beta 6
1.24	-0.90	-2.29	BG078443	Mylc2b	myosin light chain, regulatory B

Trafficking

-1.33	0.50	2.06	BG071194	Rab27a	RAB27A, member RAS oncogene family
-1.69	-0.56	1.58	BQ552530	Dlgh1	discs, large homolog 1 (Drosophila)
0.21	-1.47	-1.54	BG072984	Cltc	clathrin, heavy polypeptide (Hc)
0.67	-1.08	-1.75	BG073322	Kif3b	kinesin family member 3B
0.98	-0.70	-1.81	BG073546	Rasa3	RAS p21 protein activator 3
0.93	-0.89	-1.91	BG078411	Vps41	vacuolar protein sorting 41 (yeast)
1.51	-0.43	-2.21	BG078499	Rab17	RAB17, member RAS oncogene family
0.98	-2.53	-3.38	BQ551722	Kif3a	kinesin family member 3A
Other synaptic function related					
0.79	-0.86	-1.70	BG073409	Stmn1	stathmin 1
0.96	-0.68	-1.75	BG073527	Anp32a	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A
Stress response					
-1.51	-0.24	1.63	BG078930	Fkbp4	FK506 binding protein 4
1.21	-1.02	-2.35	BG064770	Cct5	chaperonin subunit 5 (epsilon)
0.83	-2.05	-2.79	BG064774	Hspca	heat shock protein 1, alpha
0.66	-1.52	-2.13	BG078338	GRP94	GRP94
1.58	-0.75	-2.58	BG078451	Ppia	peptidylprolyl isomerase A
-1.14	-2.24	-0.54	BG082456	Dnajc8	DnaJ (Hsp40) homolog, subfamily C, member 8
0.57	-2.04	-2.47	BG079631	Hspcb	heat shock protein 1, beta
Immuno responsive genes					
-2.43	-0.66	2.39	BG083661	Ilf3	interleukin enhancer binding factor 3
-1.96	-0.61	1.86	BG068877	CD106	vascular cell adhesion molecule 1
-2.12	-0.27	2.36	BG069368	Rfx1	regulatory factor X, 1 (influences HLA class II expression)
1.41	-1.19	-2.74	BG069762	Ii7	interleukin 7
-0.85	-1.63	-0.38	BG072673	Nfatc4	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
0.77	-1.47	-2.22	BG078439	Trap1	TNF receptor-associated protein 1
1.09	-1.18	-2.35	AW544628	Itgb1	integrin beta 1 (fibronectin receptor beta)
1.15	-0.37	-1.73	BG078449	Lnk	linker of T-cell receptor pathways
Mitochondria					
-1.84	-0.68	1.65	BG083466	Etfdh	electron transferring flavoprotein, dehydrogenase
-1.66	-0.18	1.87	BG084153	Suox	sulfite oxidase
0.83	-0.58	-1.51	BG063223	Suclg2	succinate-Coenzyme A ligase, GDP-forming, beta subunit
1.11	-0.54	-1.82	BG063815	Acate2	acyl-Coenzyme A thioesterase 2, mitochondrial
1.01	-1.49	-2.53	BG073668	Tfb1m	transcription factor B1, mitochondrial
1.36	-0.06	-1.72	BG076988	Cox8a	cytochrome c oxidase, subunit VIIIa
1.10	-1.45	-2.60	BG078689	Atp5a1	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1

-0.70	-1.52	-0.47	BG074411	Scarb2	Scavenger receptor class B, member 2
-0.87	-1.75	-0.46	BG086348	Ndufb10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10
Cell cycle					
-2.02	-0.94	1.64	BG071313	Cdkn1c	cyclin-dependent kinase inhibitor 1C (P57)
1.06	-0.56	-1.78	BG063180	Tbfg4	transforming growth factor beta regulated gene 4
0.05	-2.14	-1.92	BG063851	Cdc911i	CDC91 cell division cycle 91-like 1 (S. cerevisiae)
1.56	-0.37	-2.22	BG064819	Pa2g4	proliferation-associated 2G4
1.96	0.43	-2.02	BG065210	Cwf19l2	CWF19-like 2, cell cycle control (S. pombe)
1.39	-0.39	-2.03	BG065345	Pak2	p21 (CDKN1A)-activated kinase 2
1.30	-0.17	-1.73	BG073423	Cdk9	cyclin-dependent kinase 9 (CDC2-related kinase)
0.92	-0.82	-1.83	BG078444	Kntc1	kinetochore associated 1
Glucose metabolism					
-1.44	0.12	1.87	BG068321	Pgm2	phosphoglucomutase 2
1.01	-1.42	-2.47	BG064797	Ldh1	lactate dehydrogenase 1, A chain
1.31	-0.85	-2.34	BG064914	Mdh1	malate dehydrogenase 1, NAD (soluble)
1.48	-0.63	-2.35	BG065457	Aldo1	aldolase 1, A isoform
0.88	-0.78	-1.75	BG078663	Pkm2	pyruvate kinase, muscle
Lipid metabolism					
-1.69	0.27	2.29	BG066764	Apoa4	apolipoprotein A-IV
-1.39	0.43	2.06	BG069602	Acaa2	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)
-0.89	1.12	2.06	BG081903	Hsd3b1	hydroxysteroid dehydrogenase-1, delta<5>-3-beta
-1.15	0.86	2.16	BG082524	Elov16	ELOVL family member 6, elongation of long chain fatty acids (yeast)
-1.60	-0.39	1.61	BI076814	Deb1	dihydrolipoamide branched chain transacylase E2
0.60	1.57	0.63	BG073827	5730407K14Rik	RIKEN cDNA 5730407K14 gene
0.76	-0.74	-1.57	BG063417	Smpd3	sphingomyelin phosphodiesterase 3, neutral
Amino acid modification					
-1.33	0.10	1.71	BG065725	Prps1	phosphoribosyl pyrophosphate synthetase 1
-1.57	0.24	2.13	BG066387	Pafah1b2	Platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit (Pafah1b2)
-1.60	0.20	2.13	BG066451	Ggps1	geranylgeranyl diphosphate synthase 1
-1.36	-0.09	1.58	BG066539	Cyp2s1	cytochrome P450, family 2, subfamily s, polypeptide 1
-2.08	-0.43	2.16	BG071360	Pofut1	protein O-fucosyltransferase 1
-1.74	-0.68	1.54	BG073494	Leprel2	leprecan-like 2
-2.74	-1.53	2.02	BG081202	Sms	spermine synthase
-1.99	-0.79	1.74	BG082495	Asl	argininosuccinate lyase
-1.50	-0.32	1.55	BG084150	Lap3	leucine aminopeptidase 3

-1.29	0.36	1.88	C76424	Lhfp12	lipoma HMGIC fusion partner-like 2
-0.21	-2.11	-1.57	AW548258	P4ha1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide
0.46	-1.35	-1.73	BG065012	Ywhah	eta polypeptide
1.35	-0.74	-2.29	BG065113	Bcat1	branched chain aminotransferase 1, cytosolic
0.61	-1.51	-2.05	BG065166	Skb1	SKB1 homolog (S. pombe)
-0.92	0.92	1.92	BG068644	Arl6ip2	ADP-ribosylation factor-like 6 interacting protein 2
1.39	-0.52	-2.15	BG069786	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
1.21	-0.34	-1.77	BG073390	Wbscr22	Williams Beuren syndrome chromosome region 22
1.39	-0.75	-2.35	BG076643	Mgat4b	mannoside acetylglucosaminyltransferase 4, isoenzyme B
1.60	0.15	-1.82	BG077739	Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1
1.10	-0.43	-1.72	BG077796	Akp2	alkaline phosphatase 2, liver
1.29	-0.39	-1.91	BG078410	Eno1	enolase 1, alpha non-neuron
1.28	-0.81	-2.27	BG078465	Aof2	amine oxidase (flavin containing) domain 2
0.68	-0.96	-1.66	BG078651	Large	like-glycosyltransferase
2.09	1.00	-1.68	BG086914	D18Wsu98e	DNA segment, Chr 18, Wayne State University 98, expressed

CEREBELLUM

16M/6M	Z-ratio 24M/6M	24M/16M	Acc	Symbol	Name
DNA replication & repair					
-0.88	0.46	1.56	BG072056	Cenpa	Centromere autoantigen A
-0.70	-1.57	-1.42	BG080913	Pole3	Polymerase (DNA directed), epsilon 3 (p17 subunit)
-0.47	-1.90	-2.13	BG064736	Rrm1	Ribonucleotide reductase M1
-1.07	-1.98	-1.60	BG078138	Rrm2	Ribonucleotide reductase M2
-0.50	-1.99	-2.21	BG082424	Polr2h	Similar to polymerase (RNA) II (DNA directed) polypeptide H
-0.09	-1.36	-1.78	BG064783	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
0.16	-1.12	-1.71	BG078092	2700083B06Rik	RIKEN cDNA 2700083B06 gene
-1.36	-1.52	-0.65	BG068026	Hel308	Helicase, mus308-like (Drosophila)
Transcription regulators					
-0.97	0.55	1.78	BG072695	Erh	Enhancer of rudimentary homolog (Drosophila)
-0.84	0.46	1.51	BG075316	Asb1	Ankyrin repeat and SOCS box-containing protein 1
1.38	1.80	1.01	BG077302	Atf7ip	Activating transcription factor 7 interacting protein
1.06	1.76	1.30	BG064287	Ncl	Nucleolin
-0.82	0.47	1.52	BG076040	Zdhhc2	Zinc finger, DHHC domain containing 2

-1.08	0.27	1.51	BG072805	4930522L14Rik	RIKEN cDNA 4930522L14 gene
-1.23	-1.56	-0.84	BG068715	Bhc80	BRAF35/HDAC2 complex
-0.83	-1.83	-1.63	BG064751	E4f1	E4F transcription factor 1
-0.20	-1.24	-1.50	BG076977	Zfp265	Zinc finger protein 265
-1.38	-1.67	-0.83	C77369	Zdhhc6	Zinc finger, DHHC domain containing 6
-1.94	-2.62	-1.56	BG067933	Tex292	Testis expressed gene 292
-1.34	-1.89	-1.18	BG064631	Timeless	Timeless homolog (Drosophila)
-0.80	-1.83	-1.67	BG076902	Pura	Purine rich element binding protein A
0.32	-0.87	-1.54	BG072578	Mrg1	Myeloid ecotropic viral integration site-related gene 1
-1.12	-1.58	-0.99	BG082425	Mllt10	Myeloid/lymphoid or mixed lineage-leukemia translocation to 10 homolog (Drosophila)
0.92	-0.41	-1.53	BQ550128	2610014I16Rik	Coiled-coil domain containing 9
-1.07	-1.62	-1.10	BG068330	Nol8	Nucleolar protein 8
-0.74	-2.06	-2.04	BG064881	D1Ertd161e	Galactosidase, beta 1-like
RNA editing/processing					
1.15	-0.26	-1.57	BQ552701	Fusip1	FUS interacting protein (serine-arginine rich) 1
0.69	-1.87	-3.30	BG064869	Rnmt	RNA (guanine-7-) methyltransferase
-0.10	-1.61	-2.11	BG066789	Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
-0.52	-1.89	-2.04	BG064641	Rpp14	RIKEN cDNA A230065C20 gene
-0.86	-2.03	-1.87	BG067897	D230019K20Rik	RIKEN cDNA D230019K20 gene
-0.48	-1.56	-1.63	BG064840	2610033H07Rik	RIKEN cDNA 2610033H07 gene
-0.51	-1.58	-1.64	BG067161	2310067E08Rik	RIKEN cDNA 2310067E08 gene
-0.85	-1.56	-1.25	BG076418	Elac2	elaC homolog 2
Protein synthesis/ degradation					
1.25	1.61	0.89	BG079790	Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
-1.81	0.36	2.41	BQ552312	Fbxw11	F-box and WD-40 domain protein 11
-1.12	0.28	1.57	BG087873	Rps6ka5	Ribosomal protein S6 kinase, polypeptide 5
-1.14	-1.84	-1.32	BG081064	Secisbp2	SECIS binding protein 2
0.68	-0.92	-1.99	BG065197	Rpl5	Ribosomal protein L5
0.30	-1.02	-1.71	BG085977	Rpl10	Ribosomal protein 10
0.34	-0.86	-1.54	BG085974	Rpl14	Ribosomal protein L14
-1.19	-1.57	-0.90	BG076676	Rnu64	Similar to 40S ribosomal protein S2
-0.73	-2.20	-2.25	BG064817	Arbp	Acidic ribosomal phosphoprotein P0
-1.41	-1.53	-0.61	BG080379	Nars	Asparaginyl-tRNA synthetase
-0.70	-1.94	-1.93	BG064807	Cln2	Ceroid-lipofuscinosis, neuronal 2
0.52	-1.05	-1.99	BG078452	Ppia	Peptidylprolyl isomerase A
-0.84	-1.64	-1.36	BG078193	Pam	Peptidylglycine alpha-amidating monooxygenase

-1.05	-1.54	-1.01	BG083038	Rnf20	Ring finger protein 20
-1.25	-1.73	-1.06	BG067311	Fbxw17	F-box and WD-40 domain protein 17
-0.12	-1.24	-1.58	BG073224	Ube2q	Ubiquitin-conjugating enzyme E2Q (putative)
0.14	-1.41	-2.08	BG064701	Psmc2	Proteasome (prosome, macropain) 26S subunit, ATPase 2
-1.16	-1.61	-0.98	BG063070	Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
-0.74	-1.53	-1.32	C85808	Serpina3g	Serine (or cysteine) proteinase inhibitor, clade A, member 3G
3.12	0.48	-2.63	BG064599	Pappa	Pregnancy-associated plasma protein A
-1.43	-1.58	-0.66	BG067300	Tinag	Tubulointerstitial nephritis antigen
0.79	-0.88	-2.05	BG064856	Tpp2	Tripeptidyl peptidase II
Signal transduction					
1.18	1.73	1.13	C78770	Rapgef2	RIKEN cDNA B930012P20 gene
-1.11	0.75	2.20	BG072073	Wdr10	WD repeat domain 10
-0.88	0.62	1.78	BG084873	Tmem23	Transmembrane protein 23
Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein, alpha 1					
-0.95	0.41	1.57	BG083890	Ppfia1	Olfactory receptor 56
-1.25	-2.28	-1.82	BG067921	Olfir56	Olfactory receptor 56
1.17	-0.70	-2.21	BQ550758	Gng2	Guanine nucleotide binding protein (G protein), gamma 2 subunit
-0.96	-1.53	-1.09	BG063497	Stam2	Signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
-1.22	-1.68	-1.01	BG069401	Csnk2a2	Casein kinase II, alpha 2, polypeptide
1.17	-0.49	-1.92	BG087465	Mapk14	Mitogen activated protein kinase 14
-1.29	-1.69	-0.97	BG079475	Pik4ca	Phosphatidylinositol 4-kinase, catalytic, alpha polypeptide
1.23	-0.46	-1.93	BG075826	Arf3	ADP-ribosylation factor 3
2.59	0.52	-2.02	BG064665	8430423A01Rik	RIKEN cDNA 8430423A01 gene
0.01	-1.08	-1.50	BG085334	Sara1	SAR1a gene homolog 1 (S. cerevisiae)
0.32	-0.86	-1.52	BG085385	2610024E20Rik	RIKEN cDNA 2610024E20 gene
1.63	-0.11	-1.87	BG078132	Rangap1	RAN GTPase activating protein 1
-0.98	-2.03	-1.75	BG080936	Arfgap3	ADP-ribosylation factor GTPase activating protein 3
-1.45	-1.78	-0.91	BG066934	2210407G14Rik	RIKEN cDNA 2210407G14 gene
1.46	-0.37	-2.06	BG086839	Trim35	Tripartite motif-containing 35
0.10	-1.50	-2.16	BG078210	Ttc10	Tetratricopeptide repeat domain 10
-1.26	-1.71	-1.02	BG076940	Wdr3	WD repeat domain 3
-1.02	-2.25	-2.03	BG067866	Cxadr	Coxsackievirus and adenovirus receptor
Growth factors & signaling					
-0.81	-2.14	-2.09	BG064653	Igf2bp1	Insulin-like growth factor 2, binding protein 1
Channels & transporters					
-0.74	-1.80	-1.69	BG064796	Ftl1	Ferritin light chain 1
-1.18	-1.52	-0.84	BG066256	Clcn1	Chloride channel 1

-0.02	-1.37	-1.87	BG065313	Atp6v1e1	ATPase, H+ transporting, V1 subunit E isoform 1
-0.15	-1.26	-1.57	BG065073	Atp6v0c	ATPase, H+ transporting, V0 subunit C
-1.05	-1.60	-1.10	BG068288	Slco1b2	Solute carrier organic anion transporter family, member 1b2
-1.10	-2.08	-1.71	BG079955	Slc5a11	Solute carrier family 5 (sodium/glucose cotransporter), member 11
-1.05	-1.95	-1.58	BG068299	Slc7a8	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
2.17	-0.51	-2.99	BG078196		Similar to Potassium voltage-gated channel subfamily G member 1 (Voltage-gated potassium channel subunit Kv6.1) (KH2)
1.07	-0.48	-1.79	BG064677	Trpc4ap	Transient receptor potential cation channel, subfamily C, member 4 associated protein
-0.41	-1.50	-1.64	BG067563	Npc1	Niemann Pick type C1
Cytoskeleton					
-1.00	-1.54	-1.06	BG077878	Cald1	caldesmon 1
0.05	-1.36	-1.92	BG086016	Tpm1	Tropomyosin 1, alpha
-0.36	-1.87	-2.19	BG064838	Tuba2	Tubulin, alpha 2
-0.87	-1.62	-1.31	BG064830	4930542G03Rik	RIKEN cDNA 4930542G03 gene
1.87	2.76	1.82	BG068096	C230040D10Rik	RIKEN cDNA C230040D10 gene
1.04	-0.73	-2.11	BG078109	Tcp1	T-complex protein 1
Trafficking					
-0.98	0.49	1.71	BG085488	2610019N19Rik	Vacuolar protein sorting 4a (yeast)
-1.14	0.76	2.26	BQ552325	Kif3c	Kinesin family member 3C
1.47	1.51	0.53	BG077424	Dncli2	Dynein, cytoplasmic, light intermediate polypeptide 2
-1.31	0.49	2.06	BQ552294	Stxbp6	Syntaxin binding protein 6 (amisyn)
0.76	-0.52	-1.52	AW554618	Diap1	Diaphanous homolog 1 (Drosophila)
-0.68	-2.06	-2.12	C80308	Exoc7	Exocyst complex component 7
0.26	-1.42	-2.22	BG078477	Sec13l1	SEC13-like 1 (S. cerevisiae)
Stress response					
-1.43	0.52	2.24	BG080820	Dnajb4	DnaJ (Hsp40) homolog, subfamily B, member 4
-0.41	-1.93	-2.22	BG064774	Hspca	Heat shock protein 1, alpha
-0.93	-1.89	-1.62	BG079743	Dnajc7	DnaJ (Hsp40) homolog, subfamily C, member 7
0.50	-0.86	-1.71	BG085384	Cct2	Chaperonin subunit 2 (beta)
Immuno responsive genes					
0.18	-1.32	-2.01	BG064919	Ilf3	Interleukin enhancer binding factor 3
Mitochondria					
-1.09	-1.66	-1.13	BG081063	Cybb	Cytochrome b-245, beta polypeptide
1.41	-0.43	-2.08	BQ552668	Gpam	Glycerol-3-phosphate acyltransferase, mitochondrial
Cell cycle					

-1.05	0.70	2.08	AU046176	2810418N01Rik	RIKEN cDNA 2810418N01 gene
-0.11	-1.43	-1.86	BG064663	Anapc7	Anaphase promoting complex subunit 7
0.47	-0.80	-1.60	BQ550715	Anp32b	Acidic nuclear phosphoprotein 32 family, member B
0.09	-1.15	-1.68	BG072604	Lats2	Large tumor suppressor 2
1.84	-0.71	-2.92	BG064846	Cdc2a	Cell division cycle 2 homolog A (S. pombe)
Glucose metabolism					
0.10	-1.10	-1.62	BG064930	Pfkl	Phosphofructokinase, liver, B-type
-1.13	-2.15	-1.77	BG064797	Ldh1	Lactate dehydrogenase 1, A chain
-0.15	-1.59	-2.04	BG065476	LOC14433	Similar to glyceraldehyde-3-phosphate dehydrogenase
3.37	1.36	-1.69	BG064582	Lrrc16	Leucine rich repeat containing 16
Lipid metabolism					
-0.90	0.44	1.56	BG074610	Glb1	RIKEN cDNA C130097A14 gene
-1.30	0.64	2.25	BG086746	Fabp3	Fatty acid binding protein 3, muscle and heart
1.31	1.61	0.83	BG063969	Ppap2b	Phosphatidic acid phosphatase type 2B
0.47	-0.78	-1.57	BG073139	Vkorc111	Vitamin K epoxide reductase complex, subunit 1-like 1
1.18	-1.31	-3.05	BG064823	Pgam1	Phosphoglycerate mutase 1
3.15	1.23	-1.64	BG064642	Pcyt1a	Phosphate cytidylyltransferase 1, choline, alpha isoform
0.02	-1.27	-1.77	AU017469	Pafah1b2	Platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit
Amino acid modification					
-0.03	-1.31	-1.78	BG065382	Gldc	Glycine decarboxylase
0.76	-0.56	-1.57	BG073234	Trib1	Tribbles homolog 1 (Drosophila)
-0.79	-1.57	-1.32	BG078465	Aof2	Amine oxidase (flavin containing) domain 2
-1.29	-1.60	-0.84	BG066673	Phgdh	3-phosphoglycerate dehydrogenase

STRIATUM

16M/6M	Z-ratio 24M/6M	24M/16M	Acc	Symbol	Name
Transcription regulators					
0.50	1.83	1.53	BG079546	Ncoa6	Nuclear receptor coactivator 6
0.24	1.56	1.54	AW554361	DXBwg1396e	CASK interacting nucleosome assembly protein
-1.02	0.20	1.54	BG072903	Ctbp2	Zinc finger, RAN-binding domain containing 1
-0.71	0.81	1.88	BG086303	Aip	Aryl-hydrocarbon receptor-interacting protein
-0.36	1.62	2.38	BG067487	A730098D12Rik	RIKEN cDNA A730098D12 gene
2.85	1.57	-1.81	BG069606	Zfp592	Zinc finger protein 592
3.17	2.15	-1.54	BG070913	Ankrd25	Ankyrin repeat domain 25
3.53	2.22	-1.92	BG069533	Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila)

2.79	1.69	-1.60	BG067912	Mrg1	Myeloid ecotropic viral integration site-related gene 1
RNA editing/processing					
0.36	3.16	3.27	BQ552383	Rcl1	RNA terminal phosphate cyclase-like 1
0.82	2.88	2.34	BG080270	Prpf3	PRP3 pre-mRNA processing factor 3 homolog (yeast)
0.75	-1.08	-2.24	BG063080	Xrn2	5'-3' exoribonuclease 2
Protein synthesis/ degradation					
-0.05	1.88	2.28	C77246	Yars	Tyrosyl-tRNA synthetase
1.49	3.02	1.64	BG065641	Txndc5	Thioredoxin domain containing 5
1.21	4.25	3.46	BQ552407	Cst3	Cystatin C
0.10	1.51	1.66	BG073013	Golph4	Golgi phosphoprotein 4
0.98	1.81	0.88	BG084444	Eef1e1	Eukaryotic translation elongation factor 1 epsilon 1
1.62	3.01	1.47	BG078883	Eif2b5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon
-1.77	0.03	2.32	BG086954	App	Amyloid beta (A4) precursor protein
-1.34	0.27	2.05	BG086349	Rnf11	Ring finger protein 11
0.50	-0.99	-1.80	AA410017	1110017C15Rik	RIKEN cDNA 1110017C15 gene
-0.06	-1.54	-1.74	BG078672	Rpl26	Ribosomal protein L26
-0.23	-1.75	-1.77	BG064471	Ext1	Exostoses (multiple) 1
2.65	1.54	-1.59	AW536452	Cul4b	Cullin 4B
-0.02	-1.78	-2.08	BG064693	Psma1	Proteasome (prosome, macropain) subunit, alpha type 1
Signal transduction					
0.05	1.65	1.88	BG067235	Ttbk1	tau tubulin kinase 1
0.96	4.64	4.25	BG076891	Pkp2	Plakophilin 2
-1.31	0.55	2.35	BG069369	Pdzk2	PDZ domain containing 2
-0.53	1.56	2.53	BG077025	Pnn	Pinin
0.27	1.57	1.52	BG085733		8-Sep Septin 8
-0.15	1.79	2.30	BG064802	Sparc	Secreted acidic cysteine rich glycoprotein
-0.98	1.02	2.47	BG074398	Sparcl1	SPARC-like 1 (mast9, hevin)
-0.66	-1.74	-1.21	BG072750	Tgfb1	Transforming growth factor, beta induced
-1.01	-2.47	-1.62	BG063822	Plekhc1	Pleckstrin homology domain containing, family C (with FERM domain) member 1
4.52	3.59	-1.57	AA408772	Jmjd3	jumonji domain containing 3
-0.56	-1.95	-1.58	BG068629		Similar to alpha-3 collagen type VI
3.90	2.95	-1.54	BG068843	Fchsd2	FCH and double SH3 domains 2
2.82	1.55	-1.80	BG078317	Ttc19	tetratricopeptide repeat domain 19
1.45	0.22	-1.61	BG069613	2700008N14Rik	RIKEN cDNA 2700008N14 gene
-1.26	-2.68	-1.53	BG066934	2210407G14Rik	RIKEN cDNA 2210407G14 gene
Growth factors & signaling					

-0.58	1.66	2.70	AU021923	Jag1	Jagged 1
5.44	3.51	-2.86	BG076766	Ttr	Transthyretin
-0.85	-1.52	-0.70	AW539320	Csh1	Chorionic somatomammotropin hormone 1
Channels & transporters					
1.19	5.70	5.20	BG063515	Fth1	Ferritin heavy chain 1
0.81	2.66	2.10	BG063524	Slc20a2	Solute carrier family 20, member 2
-1.43	-0.07	1.76	BG075286	Slc25a3	Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3
-0.41	-1.78	-1.57	BG085195	Atp2a2	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2
-0.67	-1.68	-1.13	BG073429	Slc2a4	Solute carrier family 2 (facilitated glucose transporter), member 4
-1.39	-3.45	-2.28	BG065432	Abcf3	ATP-binding cassette, sub-family F (GCN20), member 3
Cytoskeleton					
-1.40	-0.24	1.52	BG088087	Capzb	Capping protein (actin filament) muscle Z-line, beta
0.29	1.60	1.52	BG065918	Catna1	Catenin alpha 1
-0.81	-2.53	-1.94	BG068557	Actl6a	Actin-like 6A
Trafficking					
0.29	1.81	1.76	BG082439	Trappc3	Trafficking protein particle complex 3
0.56	-0.99	-1.88	BG063659	Ap1s1	Adaptor protein complex AP-1, sigma 1
Other synaptic function related					
-0.50	-2.17	-1.91	AW545189	Grin1a	Glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A
Stress response					
0.10	1.76	1.95	BG076621	Hspa5	Heat shock 70kD protein 5 (glucose-regulated protein)
0.61	2.51	2.17	BG079767	Csda	Cold shock domain protein A
-0.92	1.60	3.08	BG064846	Cdc2a	Cell division cycle 2 homolog A (S. pombe)
-1.18	0.12	1.67	BG073042	Hbb-bh1	Hemoglobin Z, beta-like embryonic chain
-0.58	-2.22	-1.88	BG079788	Hba-a1	Hemoglobin alpha, adult chain 1
-0.70	-2.28	-1.78	BG069786	Ywhab	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
Immuno responsive genes					
-0.50	-2.01	-1.73	BG066248	Ifi30	Interferon gamma inducible protein 30
3.29	1.87	-2.02	BG079611	Irak1	Interleukin-1 receptor-associated kinase 1
4.10	2.03	-2.88	BG063312	Bat3	HLA-B-associated transcript 3
0.71	-0.92	-2.00	BG077865	Tnfsf5ip1	Tumor necrosis factor superfamily, member 5-induced protein 1
Mitochondria					
-1.01	0.51	1.90	BG088100	Ndufs1	NADH dehydrogenase (ubiquinone) Fe-S protein 1
-0.33	-1.73	-1.62	BG081063	Cybb	Cytochrome b-245, beta polypeptide
1.46	-0.77	-2.79	BG080169	Dia1	Dia1: diaphorase 1 (NADH)

0.62	1.96	1.52	BG064900	Scd2
-0.56	1.91	2.99	BG075879	Plp1
-0.86	1.54	2.93	BG064823	Pgam1
-0.84	0.57	1.76	AW552546	Aldh1a2

Lipid metabolism

Stearoyl-Coenzyme A desaturase 2
 Proteolipid protein (myelin) 1
 Phosphoglycerate mutase 1

Amino acid modification

Aldehyde dehydrogenase family 1, subfamily A2

SPINAL CORD

16M/6M	Z-ratio 24M/6M	24M/16M	Acc	Symbol	Name
1.67	2.98	1.75	BG073328	Xrcc4	X-ray repair complementing defective repair in Chinese hamster cells 4 Excision repair cross-complementing rodent repair deficiency, complementation group 4
-1.33	0.63	2.67	BG069525	Ercc4	Tankyrase 1 binding protein 1
-1.03	0.33	1.86	BG066559	Tnks1bp1	SMC (structural maintenance of chromosomes 1)-like 1 (<i>S. cerevisiae</i>)
2.03	3.35	1.75	BG085656	Smc11l1	Regulator of telomere elongation helicase 1
-1.79	1.38	4.32	AW556484	Rtel1	Ribonucleotide reductase M2
-1.03	0.21	1.69	BG079733	Rrm2	Replication protein A2
2.58	4.39	2.40	BG075372	Rpa2	Pescadillo homolog 1, containing BRCT domain (zebrafish)
0.49	1.87	1.86	BG087523	Pes1	Hypothetical gene supported by AK080436
-1.75	-0.19	2.14	BQ550353	Hmgn1	DNA methyltransferase 3B
-1.73	-0.45	1.75	BG066942	Dnmt3b	Werner syndrome homolog (human)
0.57	-1.05	-2.20	BG084595	Wm	Topoisomerase (DNA) III beta
2.44	0.94	-2.07	BG064763	Top3b	SMC6 structural maintenance of chromosomes 6-like 1 (yeast)
-0.69	-1.88	-1.59	AU022611	Smc6l1	Ribonucleotide reductase M2
1.58	0.32	-1.74	BG078138	Rrm2	Ribonucleotide reductase M1
2.04	0.79	-1.73	BG064736	Rrm1	Postmeiotic segregation increased 2 (<i>S. cerevisiae</i>)
0.57	-0.91	-2.01	BG087717	Pms2	O-6-methylguanine-DNA methyltransferase
0.79	-1.01	-2.46	BG067853	Mgmt	DNA2 DNA replication helicase 2-like (yeast)
1.76	0.41	-1.85	BG067931	Dna2l	RIKEN cDNA 2310051F07 gene
2.00	3.44	1.91	BG072618	Chrac1	Chromobox homolog 3 (<i>Drosophila</i> HP1 gamma)
2.02	0.88	-1.58	BG078093	Cbx3	RIKEN cDNA 2700083B06 gene
2.31	1.18	-1.57	BG078092	2700083B06Rik	
-1.47	-0.28	1.64	BG065915	Etv6	Ets variant gene 6 (TEL oncogene)
0.92	1.67	0.99	BG085427	Hmgb2	High mobility group box 2

Transcription regulators

-1.04	0.60	2.23	BG078897	Phf12	PHD finger protein 12
0.76	2.04	1.72	BG069255	Hira	Histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>)
-1.37	0.93	3.14	BG082843	AI481500	Expressed sequence AI481500
-1.44	-0.33	1.52	BG065991	Ncor1	nuclear receptor co-repressor 1
-0.39	1.64	2.76	BG070725	Nfe2l2	Nuclear factor, erythroid derived 2, like 2
-2.00	-0.70	1.79	BG064395	Nfat5	Nuclear factor of activated T-cells 5
-1.35	-0.21	1.57	BG066009	Gtf3c2	General transcription factor IIIC, polypeptide 2, beta
0.62	1.77	1.55	BG076896	Tardbp	TAR DNA binding protein
2.98	4.78	2.37	BG086781	Setdb1	SET domain, bifurcated 1
-1.26	0.21	2.01	BG069533	Suv420h1	Suppressor of variegation 4-20 homolog 1 (<i>Drosophila</i>)
-1.73	-0.04	2.31	BG082817	Rb1	Retinoblastoma 1
1.66	2.90	1.66	BG087942	Tfdp1	Transcription factor Dp 1
2.23	4.13	2.53	BG072662	Runx1	Runt related transcription factor 1
-1.69	-0.49	1.65	BG067912	Mrg1	Myeloid ecotropic viral integration site-related gene 1
1.48	2.65	1.56	BG086136	Zfp51	Zinc finger protein 51
-1.75	-0.51	1.71	BG064695	Zfp482	Zinc finger protein 482
1.42	3.22	2.41	BG072651	Bnc1	RIKEN cDNA 4833418N17 gene
-1.78	-0.28	2.06	BG070349	B430306D02Rik	RIKEN cDNA B430306D02 gene
-1.56	-0.30	1.73	BG068796	6330581L23Rik	RIKEN cDNA 6330581L23 gene
-1.34	-2.47	-1.51	BG085163	Taf1a	TATA box binding protein (Tbp)-associated factor, RNA polymerase I, A
-0.94	-1.77	-1.11	BG082016	Taf7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor
0.94	-0.33	-1.73	BG067185	Runx2	Runt related transcription factor 2
1.04	-0.24	-1.75	BG067984	Mll5	Myeloid/lymphoid or mixed-lineage leukemia 5
1.25	-0.17	-1.95	BG067943	Zcchc6	Zinc finger, CCHC domain containing 6
0.91	-0.39	-1.76	BG078199	Zfp281	Zinc finger protein 281
1.55	-0.25	-2.47	BG064719	Ankrd32	Ankyrin repeat domain 32
2.03	0.73	-1.80	BG077103	Jarid1a	RIKEN cDNA D230014I24 gene
-0.59	-1.59	-1.34	BG080731	Nab1	Ngfi-A binding protein 1
-0.75	-1.95	-1.61	BG087727	Nfx1	Nuclear transcription factor, X-box binding 1
0.23	-0.91	-1.54	BG084112	Nr2f1	Nuclear receptor subfamily 2, group F, member 1
1.67	0.52	-1.58	BG074323	Nr2c2	Nuclear receptor subfamily 2, group C, member 2
2.03	0.18	-2.54	BG064819	Pa2g4	Proliferation-associated 2G4
RNA editing/processing					
1.36	2.94	2.10	AW557944	Sfrs14	Splicing factor, arginine/serine-rich 14
2.22	4.12	2.53	BG085411	Slbp	Stem-loop binding protein
-1.63	0.17	2.47	BG069904	1190005F20Rik	RIKEN cDNA 1190005F20 gene

1.66	2.84	1.56	BG073307	Ddx54	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54
1.01	1.87	1.14	AW544088	5730449L18Rik	DNA Segment, Chr 6, Mouse Genome Informatics 32
0.75	1.76	1.34	BG072843	Pnpt1	Polyribonucleotide nucleotidyltransferase 1
1.52	3.35	2.45	BG073362	3100004P22Rik	RIKEN cDNA 3100004P22 gene
-0.76	-1.68	-1.23	BG088576	Ddx27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27
1.81	0.65	-1.60	BG072729	3000004N20Rik	RIKEN cDNA 3000004N20 gene
Protein synthesis/ degradation					
-1.75	-0.59	1.59	BG079401	Nars	Asparaginyl-tRNA synthetase
1.02	1.80	1.03	BG073438	Rpl38	Ribosomal protein L38
-0.93	0.39	1.81	BG079511	Rpl3	Ribosomal protein L3
1.08	2.04	1.27	BG085647	Rpl23a	Ribosomal protein L23a
1.95	3.51	2.07	BG074119	Eif3s8	Eukaryotic translation initiation factor 3, subunit 8
1.89	3.12	1.63	BG073959	Eef2	Eukaryotic translation elongation factor 2
1.94	3.95	2.69	BG086148	Elp4	Elongation protein 4 homolog (<i>S. cerevisiae</i>)
0.62	2.06	1.93	BG086349	Rnf11	Ring finger protein 11
1.08	3.06	2.66	BG074836	Usp4	Ubiquitin specific protease 4 (proto-oncogene)
-1.28	-0.08	1.64	BG066359	Usp1	Ubiquitin specific protease 1
-2.04	-0.77	1.75	BQ552073	Ufd1l	Ubiquitin fusion degradation 1 like
-2.00	-0.71	1.79	BG066446	Arih2	RIKEN cDNA 8030474H12 gene
-1.87	0.25	2.90	BG066125	Psma4	Proteasome (prosome, macropain) subunit, alpha type 4
1.69	3.26	2.09	BG072746	Psmd7	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
0.05	1.56	2.05	BG071436	Psmc6	Proteasome (prosome, macropain) 26S subunit, ATPase, 6
1.81	2.98	1.54	BG073415	Nedd4	Neural precursor cell expressed, developmentally down-regulated gene 4
0.85	1.78	1.25	BG074233	Ndfip1	Nedd4 family interacting protein 1
-0.49	0.67	1.58	BG066271	Kars	Lysyl-tRNA synthetase
1.75	4.13	3.19	AW553913	Lcn7	Lipocalin 7
2.19	3.76	2.08	BG072819	Lamr1	Laminin receptor 1 (ribosomal protein SA)
-0.66	0.44	1.50	BG079508	Tbl1x	Transducin (beta)-like 1 X-linked
-1.12	0.38	2.05	BG066997	Thns1l	Threonine synthase-like 1 (bacterial)
-1.78	-0.21	2.17	BG079293	Psma3	Similar to proteasome alpha7/C8 subunit
-0.46	0.74	1.62	BG078882	Serpinb6c	Serine (or cysteine) proteinase inhibitor, clade B, member 6c
-1.35	-0.16	1.63	BG078920	Khsrp	KH-type splicing regulatory protein
2.72	5.46	3.66	BG072807	Car8	Carbonic anhydrase 8
-0.63	1.17	2.44	BG066341	Man2a1	Mannosidase 2, alpha 1
1.54	0.39	-1.59	BG064835	Adamts10	A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 10
1.74	0.48	-1.73	BG064840	2610033H07Rik	RIKEN cDNA 2610033H07 gene

1.39	0.25	-1.56	BG077164	Eif3s2	Eukaryotic translation initiation factor 3, subunit 2 (beta)
1.03	-0.14	-1.60	BG073224	Ube2q	Ubiquitin-conjugating enzyme E2Q (putative)
1.59	-0.10	-2.31	BG064874	Usp38	Ubiquitin specific protease 38
-0.90	-2.75	-2.49	BG073636	Psme1	Proteasome (prosome, macropain) 28 subunit, alpha
1.96	0.69	-1.75	BG067908	Prep	Prolyl endopeptidase
0.43	-1.26	-2.29	AW552998	Lsm3	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)
0.84	-0.70	-2.10	BG081064	Secisbp2	SECIS binding protein 2
1.60	0.40	-1.65	BG085919	Jrk	Jerky
1.18	-0.08	-1.72	BG080881	Npepps	Aminopeptidase puromycin sensitive
0.14	-1.08	-1.65	BG063679	Aasdhppt	Amino adipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
-0.68	-2.77	-2.83	BG076242	2010106G01Rik	RIKEN cDNA 2010106G01 gene
Signal transduction					
0.94	1.86	1.23	BG086084	Wnt4	Wingless-related MMTV integration site 4
0.94	2.11	1.56	BG076105	Utx	Ubiquitously transcribed tetratricopeptide repeat gene, X chromosome
2.49	4.97	3.31	AW557486	Tdrd9	Tudor domain containing 9
0.53	2.12	2.15	BG088528	Tdrkh	Tudor and KH domain containing protein
0.97	2.24	1.70	BG086192	Tgfb1i1	Transforming growth factor beta 1 induced transcript 1
-1.37	-0.09	1.75	BG086904	Ttc11	Tetratricopeptide repeat domain 11
1.31	2.67	1.82	BG087876	Tbc1d1	TBC1 domain family, member 1
-2.43	-0.68	2.41	BG072287	Solt	SoxLZ/Sox6 leucine zipper binding protein in testis
-0.99	0.33	1.80	BG077930	Snx10	Sorting nexin 10
-1.53	-0.25	1.77	BQ550417	Srgap2	SLIT-ROBO Rho GTPase activating protein 2
-1.35	-0.12	1.69	C79706	Stam2	Signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
-1.89	-0.71	1.64	BQ550334	Sidt2	SID1 transmembrane family, member 2
-1.47	-0.05	1.95	BG065899	Sh2bp1	SH2 domain binding protein 1 (tetratricopeptide repeat containing)
-0.61	0.94	2.11	BG078874	1110061O04Rik	RIKEN cDNA 1110061O04 gene
1.34	2.21	1.16	BG085506	Arhgef19	Rho guanine nucleotide exchange factor (GEF) 19
-1.09	0.20	1.77	BG068432	Rap1a	RAS-related protein-1a
1.63	3.04	1.89	BG087931	Rhoa	Ras homolog gene family, member A
-1.94	-0.85	1.51	C76941	Ranbp5	RAN binding protein 5
0.04	1.31	1.72	BG072458	Pink1	PTEN induced putative kinase 1
-0.69	0.47	1.59	BG081448	Ppp3cb	Protein phosphatase 3, catalytic subunit, beta isoform
-1.45	-0.26	1.63	BG065773	Ppp2r5c	Protein phosphatase 2, regulatory subunit B (B56), gamma isoform
-1.30	-0.12	1.61	BG065790	Ppp2r5e	Protein phosphatase 2, regulatory subunit B (B56), epsilon isoform
-1.77	-0.13	2.24	AU021253	Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
2.38	4.35	2.63	BG087909	Phka2	Phosphorylase kinase alpha 2

-0.32	1.60	2.60	BG084383	Pde6d	Phosphodiesterase 6D, cGMP-specific, rod, delta
-1.26	0.25	2.07	BG069544	Pde3a	Phosphodiesterase 3A, cGMP inhibited
-1.34	-0.12	1.68	BG066066	Pik3r3	Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55)
0.05	2.15	2.83	BG071525	Pdzk3	PDZ domain containing 3
0.66	1.78	1.50	BG072813	Opa1	Optic atrophy 1 homolog (human)
-1.63	-0.22	1.94	BG070274	Nlk	Nemo like kinase
1.27	2.72	1.93	BG087954	Ltbp1	Latent transforming growth factor beta binding protein 1
0.28	1.88	2.16	BG072195	Jam3	Junction adhesion molecule 3
0.32	1.62	1.75	BG070896	Jam2	Junction adhesion molecule 2
0.78	2.71	2.60	BG087223	Itga3	Integrin alpha 3
0.95	1.74	1.05	BG086054	Fstl1	Follistatin-like 1
-1.47	-0.26	1.66	BG068469	Ednrb	Endothelin receptor type B
-1.40	0.29	2.32	BG066580	Dsg2	Desmoglein 2
-0.04	1.65	2.29	BQ550373	Cdh5	Cadherin 5
1.49	2.61	1.48	BG077818	Mt1	Metallothionein 1
2.50	4.16	2.19	BG063925	Mt2	Metallothionein 2
1.49	0.14	-1.85	BG087418	Ms4a6d	Membrane-spanning 4-domains, subfamily A, member 11
1.69	0.47	-1.68	BG085336	Matn2	Matrilin 2
2.09	0.37	-2.36	BG067866	Cxadr	Coxsackievirus and adenovirus receptor
-0.78	-1.91	-1.51	BQ550980	Chn1	Chimerin (chimaerin) 1
-1.71	-2.88	-1.56	BG072331	Clstn1	Calsyntenin 1
-1.16	-3.24	-2.80	BG076321	Calmbp1	Calmodulin binding protein 1
-0.70	-2.19	-2.00	BG088768	Rcn3	Reticulocalbin 3, EF-hand calcium binding domain
-0.66	-1.62	-1.29	BG088317	Shc1	Src homology 2 domain-containing transforming protein C1
1.78	0.45	-1.84	BG078210	Ttc10	Tetratricopeptide repeat domain 10
3.02	1.91	-1.55	BG064553	Thumpd1	THUMP domain containing 1
1.88	0.49	-1.90	BG073370	Ttc3	Tetratricopeptide repeat domain 3
1.34	0.07	-1.74	BG078208	Srprb	Signal recognition particle receptor, B subunit
1.70	0.35	-1.86	BG085334	Sara1	SAR1a gene homolog 1 (<i>S. cerevisiae</i>)
2.22	0.74	-2.04	BG074010	Ryr2	Ryanodine receptor 2, cardiac
0.83	-0.28	-1.52	BG065471	C330018K18Rik	RIKEN cDNA C330018K18 gene
1.10	-0.09	-1.64	BG066934	2210407G14Rik	RIKEN cDNA 2210407G14 gene
1.24	-0.42	-2.27	BG074348	Prkwnk4	Protein kinase, lysine deficient 4
-1.31	-3.18	-2.50	BG071651	Rab11a	RAB11a, member RAS oncogene family
1.75	0.33	-1.96	BG067867	Ptpn14	Protein tyrosine phosphatase, non-receptor type 14
1.27	-0.06	-1.83	BG072553	Rab11fip1	RAB11 family interacting protein 1 (class I)
1.46	0.02	-1.98	BG078211	Arl1	ADP-ribosylation factor-like 1

1.63	0.28	-1.86	BG080936	Arfgap3	ADP-ribosylation factor GTPase activating protein 3
Growth factors & signaling					
2.89	5.30	3.21	BG073492	D0H4S114	DNA segment, human D4S114
0.84	1.95	1.48	BG087899	Pdgfa	Platelet derived growth factor, alpha
1.55	0.32	-1.69	BG077115	Hunk	Hormonally upregulated Neu-associated kinase
0.35	-1.05	-1.90	BG085859	Mc2r	Melanocortin 2 receptor
Channels & transporters					
-1.62	-0.03	2.19	BG066550	Kctd5	Potassium channel tetramerisation domain containing 5
0.87	1.55	0.90	BG072959	Cacnb3	Calcium channel, voltage-dependent, beta 3 subunit
-0.41	0.71	1.52	BG079014	Trpm7	Transient receptor potential cation channel, subfamily M, member 7
-1.06	0.81	2.56	BG068694	Nup155	Nucleoporin 155
1.23	-0.01	-1.71	C80679	Atp6ap1	ATPase, H+ transporting, lysosomal accessory protein 1
0.75	-0.70	-1.98	BG068288	Slco1b2	Solute carrier organic anion transporter family, member 1b2
1.76	-0.24	-2.73	BG067865	Slc4a8	Solute carrier family 4 (anion exchanger), member 8
1.53	0.42	-1.52	BG064714	Slc3a2	Solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
1.48	0.08	-1.92	BG085951	Slc37a2	Solute carrier family 37 (glycerol-3-phosphate transporter), member 2
1.72	-0.27	-2.72	BG064853	Slc16a3	Solute carrier family 16 (monocarboxylic acid transporters), member 3
1.15	-0.10	-1.71	BG064872	Kcnk4	Potassium channel, subfamily K, member 4
-0.85	-1.71	-1.15	BG076025	Kcnk2	Potassium channel, subfamily K, member 2
0.96	-0.58	-2.11	BG074888	Xpo5	Exportin 5
2.38	1.06	-1.83	C80308	Exoc7	Exocyst complex component 7
Cytoskeleton					
1.39	2.46	1.43	BG073394	Add3	Adducin 3 (gamma)
0.65	1.51	1.16	BG077650	Ap2a1	Adaptor protein complex AP-2, alpha 1 subunit
-0.70	0.57	1.73	BG065639	Ap1gpb1	AP1 gamma subunit binding protein 1
-1.48	0.18	2.27	BG067888	Aak1	AP2 associated kinase 1
2.40	3.92	2.01	BG072685	Mns1	Meiosis-specific nuclear structural protein 1
-1.39	-0.14	1.72	BG076620	Myo1e	Myosin IE
-0.65	0.47	1.53	BG065992	2310045N14Rik	Similar to myosin light chain kinase
1.47	2.57	1.47	BG064375	Phactr1	Phosphatase and actin regulator 1
2.54	1.23	-1.81	BG064839	Wdr1	WD repeat domain 1
1.52	0.31	-1.67	BG077459	Utrn	Utrophin
1.24	0.14	-1.50	BG067822	Coro2b	Coronin, actin binding protein, 2B
0.03	-1.48	-2.05	AU045206	Cobl	Cordon-bleu
2.04	0.61	-1.98	BG064830	4930542G03Rik	RIKEN cDNA 4930542G03 gene
Trafficking					

1.99	3.57	2.10	BG087363	Vps45	Vacuolar protein sorting 45 (yeast)
1.16	2.81	2.21	AU041113	Vps54	Vacuolar protein sorting 54 (yeast)
-0.56	0.59	1.57	BG065616	Vcp	Valosin containing protein
-0.42	1.75	2.94	BG070588	Map1lc3b	Microtubule-associated protein 1 light chain 3 beta
-2.06	-0.92	1.57	BQ550134	Dnm2	Dynamin 2
Other synaptic function related					
-1.53	-0.39	1.57	BG067031	Narg1	NMDA receptor-regulated gene 1
1.65	2.81	1.55	BG085480	Agrn	Agrin
-1.42	0.55	2.70	BG083097	Stx1b1	Syntaxin 1B2
2.65	4.61	2.60	BG073296	Ncam2	Neural cell adhesion molecule 2
1.26	-0.24	-2.04	BG071687	Synj2bp	Synaptojanin 2 binding protein
1.15	-0.21	-1.86	BG074313	Syng2	Synaptogyrin 2
1.36	0.11	-1.71	BG086829	Sypl	Synaptophysin-like protein
Stress response					
0.69	1.58	1.19	AU041598	H2-K1	Histocompatibility 2, K1, K region
-1.60	-0.44	1.60	BG070773	Fkbp1a	FK506 binding protein 1a
-0.84	0.56	1.91	BG078930	Fkbp4	FK506 binding protein 4
-2.37	-1.18	1.65	BG075437	C80913	Expressed sequence C80913
-1.21	0.14	1.86	BG079699	Cct4	Chaperonin subunit 4 (delta)
1.39	-0.07	-2.00	BG064829	Hspca	Heat shock protein 1, alpha
1.85	0.68	-1.61	BG076621	Hspa5	Heat shock 70kD protein 5 (glucose-regulated protein)
3.05	1.93	-1.57	BG066789	Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
2.32	0.65	-2.30	BG078212	Fign1	Fidgetin-like 1
Immuno responsive genes					
1.29	2.14	1.13	BG086320	Cxcl12	Chemokine (C-X-C motif) ligand 12
-0.40	0.93	1.81	BG069517	Tnfsf13	Tumor necrosis factor (ligand) superfamily, member 13
1.83	3.80	2.63	BG086230	Traf7	Tnf receptor-associated factor 7
1.26	2.09	1.10	BG075295	Traf3ip1	TNF receptor-associated factor 3 interacting protein 1
-0.72	0.41	1.54	BG069534	Lman2l	Lectin, mannose-binding 2-like
0.65	1.78	1.53	BG074880	Hcph	Hemopoietic cell phosphatase
-2.32	-1.21	1.55	BG083661	Ilf3	Interleukin enhancer binding factor 3
0.08	-2.51	-3.51	BG086996	Golga1	Golgi autoantigen, golgin subfamily a, 1
0.32	-2.14	-3.33	BG085901	Ifitm2	Interferon induced transmembrane protein 2
-0.19	-1.74	-2.09	BG087082	9430034N14Rik	Interferon alpha responsive gene
1.79	0.46	-1.84	BG067896	Cnih	Cornichon homolog (Drosophila)
0.69	-0.51	-1.64	BG063802	5832424M12Rik	RIKEN cDNA 5832424M12 gene

Mitochondria

-0.62	0.83	1.98	BG077638	Mrpl19	Mitochondrial ribosomal protein L19
1.59	2.98	1.84	BG085433	Hbb-bh1	Hemoglobin Z, beta-like embryonic chain
1.12	1.93	1.08	BG075252	Egln1	EGL nine homolog 1 (C. elegans)
0.78	2.13	1.81	BG073539	Hadh2	Hydroxyacyl-Coenzyme A dehydrogenase type I
-0.59	0.76	1.84	BG083209	Cyba	Cytochrome b-245, alpha polypeptide
-1.59	-0.34	1.73	BG073745	Acbd3	Acyl-Coenzyme A binding domain containing 3
-1.27	-0.11	1.59	BG066570	Cdyl2	Chromodomain protein, Y chromosome-like 2
-1.79	-0.56	1.70	AU014844	Ogdh	Oxoglutarate dehydrogenase (lipoamide)
1.08	-0.34	-1.94	BG067951	Alox12e	Arachidonate lipoxygenase, epidermal
1.89	0.37	-2.08	BG078192	Pam	Peptidylglycine alpha-amidating monooxygenase
0.68	-0.50	-1.62	BG068195	Abce1	ATP-binding cassette, sub-family E (OABP), member 1
1.77	0.26	-2.08	BG078193	Pam	Peptidylglycine alpha-amidating monooxygenase
2.45	1.09	-1.88	C85471	Pdcd8	Programmed cell death 8
1.88	0.59	-1.78	BG075001	Uqcrc2	Ubiquinol cytochrome c reductase core protein 2
1.10	-0.63	-2.36	BG071638	Mrpl18	Mitochondrial ribosomal protein L18
-1.57	-2.43	-1.13	BG087589	Mtch1	Mitochondrial carrier homolog 1 (C. elegans)
0.73	-6.25	-9.46	BG077487	Hif1a	Hypoxia inducible factor 1, alpha subunit
-0.85	-1.60	-1.01	BG075159	Gls	Glutaminase
0.61	-1.02	-2.22	BG066881	Cryz	Crystallin, zeta
2.15	0.91	-1.72	BG080478	2810484M10Rik	RIKEN cDNA 2810484M10 gene
1.23	-0.28	-2.07	BG081031	Smox	RIKEN cDNA B130066H01 gene
Cell cycle					
2.42	4.02	2.11	BG072661	Cdc23	CDC23 (cell division cycle 23, yeast, homolog)
-1.34	0.13	2.02	BG065644	Cdc5l	Cell division cycle 5-like (S. pombe)
0.64	1.98	1.80	BG071313	Cdkn1c	Cyclin-dependent kinase inhibitor 1C (P57)
1.70	2.88	1.56	BG072757	Gspt1	G1 to S phase transition 1
-1.51	-0.03	2.04	BG077319	Lzts2	Leucine zipper, putative tumor suppressor 2
1.28	2.42	1.51	BG086278	Ptn	Pleiotrophin
1.71	0.58	-1.55	BG077073	Ccnh	Cyclin H
1.23	-0.94	-2.95	BG083522	Cks2	CDC28 protein kinase regulatory subunit 2
1.36	-0.02	-1.89	BG086421	Usmg5	Upregulated during skeletal muscle growth 5
Glucose metabolism					
1.38	2.85	1.96	BG087920	Dlst	Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
0.50	1.83	1.80	BG078834	Renbp	Renin binding protein
2.00	0.72	-1.77	BG064875	Hs3st3b1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
1.49	0.37	-1.54	BG072521	D230016N13Rik	RIKEN cDNA D230016N13 gene

-0.04	1.47	2.05	BG082524	Elov6	Lipid metabolism ELOVL family member 6, elongation of long chain fatty acids (yeast)
-1.57	-0.09	2.03	BQ551582	Lass6	Longevity assurance homolog 6 (<i>S. cerevisiae</i>)
1.72	3.57	2.48	BG071356	AU040972	Oligodendrocyte myelin glycoprotein
-1.56	0.21	2.42	BG069555	Osbpl8	Oxysterol binding protein-like 8
1.57	0.00	-2.16	BG075608	Tpi1	Triosephosphate isomerase 1
Amino acid modification					
-1.28	0.11	1.91	BG081746	Oazin	Ornithine decarboxylase antizyme inhibitor
-1.43	0.01	1.96	BG064989	AMT	Similar to aminomethyltransferase
0.61	2.29	2.25	BG073427	4930487N19Rik	RIKEN cDNA 4930487N19 gene
-1.02	0.62	2.24	BG065623	Etnk1	Ethanolamine kinase 1
-2.11	-0.87	1.72	BG065744	Pank3	Pantothenate kinase 3
1.53	0.16	-1.88	BG067932	Glul	glutamate-ammonia ligase (glutamine synthase)
1.22	0.04	-1.62	BG085485	Oaz3	Ornithine decarboxylase antizyme 3
Development					
0.91	2.98	2.77	BG072788	Atrn	Attractin
-0.51	0.67	1.61	BG066292	Dtnbp1	Dystrobrevin binding protein 1
-1.62	-0.08	2.12	BG082854	Mesp2	Mesoderm posterior 2
0.99	-0.31	-1.78	BG067952	Pbx3	RIKEN cDNA B930068K11 gene
Apoptosis					
1.63	3.01	1.84	BG074856	Fastk	Fas-activated serine/threonine kinase
1.77	0.16	-2.22	BG067918	Btg2	B-cell translocation gene 2, anti-proliferative
0.94	-0.29	-1.69	BG080244	Ern1	Endoplasmic reticulum (ER) to nucleus signalling 1
-0.38	-1.52	-1.54	BG076263	Hdh	Huntington disease gene homolog

Stable 1. Genes consistently responsive to CR across advancing age in mouse CNS



Cortex

6M-CR/Ad	16M-CR/Ad	24M-CR/Ad	Acc	Symbol	Name
			C85807	EST	
			BG071636	EST	
			C79706	Stam2	Signal transducing adaptor molecule 2
			BG075206	4930429A22Rik	RIKEN cDNA 4930429A22 gene
			BG077638	Mrpl19	Mitochondrial ribosomal protein L19
			BG066250	Tbx20	T-box transcription factor TBX20
			BG068414	Col25a1	Procollagen, type XXV, alpha 1, transcript variant 1
			BG087355	Sas	Sarcoma amplified sequence
			BG071355	EST	
			BG066559	Tnks1bp1	Tankyrase 1 binding protein 1
			BG071581	2810047L02Rik	RIKEN cDNA 2810047L02 gene
			BG074649	EST	

Hippocampus

6M-CR/Ad	16M-CR/Ad	24M-CR/Ad	Acc	Symbol	Name
			AW545298	Nubp2	Nucleotide binding protein 2
			BG085518	Eraf	Erythroid associated factor
			BG081202	EST	
			BG068469	Ednrb	Endothelin receptor type B
			BG065982	Vav2	Vav2 oncogene
			BG073013	Golph4	Golgi phosphoprotein 4
			BG066800	9030625G08Rik	RIKEN cDNA 9030625G08 gene
			BG063666	Tex19	Testis expressed gene 19
			BG087964	Fkbp9	FK506 binding protein 9

			BG088166	Entpd4	Ectonucleoside triphosphate diphosphohydrolase 4
			BG072757	Gspt1	G1 to S phase transition 1
			BQ550134	Dnm2	Dynamin 2
			BG066241	EST	
			BG065910	EST	
			BG069719	Celsr1	Cadherin EGF LAG seven-pass G-type receptor 1
			C88217	EST	
			BG083097	Stx1b1	Syntaxin 1B2
			BG079167	EST	
			BG065890	5430400N05Rik	RIKEN cDNA 5430400N05 gene

Cerebellum

6M-CR/Ad	16M-CR/Ad	24M-CR/Ad	Acc	Symbol	Name
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Striatum

6M-CR/Ad	16M-CR/Ad	24M-CR/Ad	Acc	Symbol	Name
			BG067974	D130067I03Rik	RIKEN cDNA D130067I03 gene

Spinal cord

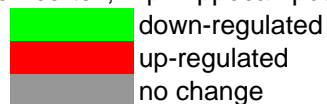
6M-CR/Ad	16M-CR/Ad	24M-CR/Ad	Acc	Symbol	Name
			BG063372	Safb2	Scaffold attachment factor B2
			BG062985	Prss32	Protease, serine, 32
			BG078926	Cst3	Cystatin C
			BG063697	Cbfa2t2h	Core-binding factor, runt domain, alpha subunit 2
			BG069013	EST	
			BG071239	EST	
			AA409376	Nfya	Nuclear transcription factor-Y alpha
			BG071231	1300007B12Rik	RIKEN cDNA 1300007B12 gene
			AA408075	EST	
			BG067447	D1Ertd251e	Transcriptional adaptor 1 (HF11 homolog, yeast) like
			BG075683	Cdk5rap2	CDK5 regulatory subunit associated protein 2
			BG063222	EST	
			AU040617	Ss18	Synovial sarcoma translocation, Chromosome 18

		BG071679	D19Ertd678e	DNA segment, Chr 19, ERATO Doi 678, expressed
		BG077934	Tpm4	Tropomyosin 4
		BG083097	Stx1b1	Syntaxin 1B2
		BG066720	EST	
		BG067472	Banp	Btg3 associated nuclear protein
		BG077413	Pnpo	Pyridoxine 5'-phosphate oxidase
		BG067471	EST	
		BG067575	EST	
		BG080549	EST	
		BG067245	2210009G21Rik	RIKEN cDNA 2210009G21 gene
		BG081236	Lats1	Large tumor suppressor 1
		AU021253	Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
		BG067563	Npc1	Niemann Pick type C1
		AU016199	Tex27	Testis expressed gene 27
		BG063043	B230333C21Rik	RIKEN cDNA B230333C21
		BG076562	Ndufb7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7
		BG069058	EST	
		BG063039	AI428936	Expressed sequence AI428936
		BG067080	EST	
		BG063740	Canx	Calnexin
		BG067356	Rragc	Ras-related GTP binding C
		BG068017	EST	
		BG066008	EST	
		BG063398	B230219D22Rik	RIKEN cDNA B230219D22 gene
		BG065769	D5Ertd135e	DNA segment, Chr 5, ERATO Doi 135, expressed
		BG082154	EST	
		BG072412	EST	
		BQ550036	Dhx37	MKIAA1517 protein
		BG072287	Solt	SoxLZ/Sox6 leucine zipper binding protein in testis
		BG066683	EST	
		C76711	EST	
		BG071862	EST	
		BG070274	Nlk	Nemo like kinase
		BG069113	EST	
		BG068472	EST	
		BG079181	EST	
		BG066708	AU020772	Expressed sequence AU020772

BG065524	Prei3	Preimplantation protein 3
BG070349	B430306D02Rik	TAF1 RNA polymerase II, TATA box binding protein-associated factor
BG074676	Rnf12	Ring finger protein 12
BG066122	EST	
BG071371	EST	
C79520	EST	
BQ550326	EST	
BG066598	EST	
BQ552422	EST	
BG068961	EST	
BG083308	BC013481	CDNA sequence BC013481
BQ552525	Mrpl45	Mitochondrial ribosomal protein L45
BG065779	EST	
C78094	Mapkap1	Mitogen-activated protein kinase associated protein 1
BG066371	EST	
BG083661	Ilf3	Interleukin enhancer binding factor 3
BQ552335	Stxbp4	Syntaxin binding protein 4
BG065684	EST	
BG075437	EST	
BQ550610	4930403O06Rik	Transmembrane and coiled-coil domains 1
BG070889	Qtrt1	Queuine tRNA-ribosyltransferase 1
BG067416	EST	

TableS4a-6M. CR responsive gene lists of 6M mouse CNS.

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.



Acc	Cor-6M	Hip-6M	Cer-6M	Str-6M	SC-6M	Symbol	Name
BG065641	down-regulated	no change	no change	no change	down-regulated	Txndc5	Thioredoxin domain containing 5
BG064663	down-regulated	no change	no change	no change	no change	Anapc7	Anaphase promoting complex subunit 7
BG066235	down-regulated	no change	down-regulated	no change	no change	2610207I05Rik	RIKEN cDNA 2610207I05 gene
BG069368	down-regulated	no change	down-regulated	no change	no change	Rfx1	Regulatory factor X, 1 (influences HLA class II expression)
C77369	down-regulated	no change	down-regulated	no change	no change	Zdhhc6	Zinc finger, DHHC domain containing 6
BG078926	down-regulated	no change	no change	no change	down-regulated	Cst3	Cystatin C
BG070584	down-regulated	no change	no change	no change	down-regulated	E330021D16Rik	RIKEN cDNA E330021D16 gene
BG066912	down-regulated	no change	no change	no change	down-regulated	Gnpnat1	Glucosamine-phosphate N-acetyltransferase 1
AU022584	down-regulated	no change	no change	no change	down-regulated	Smc6	Structural maintenance of chromosomes 6
BG068016	down-regulated	no change	no change	no change	down-regulated	Trerf1	Transcriptional regulating factor 1
AA408075	down-regulated	no change	no change	no change	down-regulated	EST	
BG067963	down-regulated	no change	no change	no change	down-regulated	EST	
BG068354	down-regulated	no change	no change	no change	down-regulated	EST	
BG073013	no change	down-regulated	no change	no change	down-regulated	Golph4	Golgi phosphoprotein 4
BG069026	no change	down-regulated	no change	no change	down-regulated	Gpr1	G protein-coupled receptor 1
BG062985	no change	down-regulated	no change	no change	down-regulated	Srrm2	Serine/arginine repetitive matrix 2
BG068443	no change	down-regulated	no change	no change	down-regulated	EST	
BG081397	no change	down-regulated	down-regulated	no change	down-regulated	Arnt	Aryl hydrocarbon receptor nuclear translocator
BG080169	up-regulated	no change	no change	up-regulated	no change	Cyb5r3	Cytochrome b5 reductase 3
BG073867	no change	down-regulated	no change	up-regulated	no change	2900097C17Rik	RIKEN cDNA 2900097C17 gene
BG063925	no change	down-regulated	up-regulated	no change	up-regulated	Mt2	Metallothionein 2
BG086164	down-regulated	no change	no change	up-regulated	no change	Slc12a5	Solute carrier family 12, member 5
BG084482	down-regulated	no change	no change	no change	no change	1110049F12Rik	RIKEN cDNA 1110049F12 gene
BG078874	down-regulated	no change	no change	no change	no change	1110061O04Rik	RIKEN cDNA 1110061O04 gene
AA410046	down-regulated	no change	no change	no change	no change	4921517N04Rik	RIKEN cDNA 4921517N04 gene
BG068366	down-regulated	no change	no change	no change	no change	4932414N04Rik	RIKEN cDNA 4932414N04 gene
BG079190	down-regulated	no change	no change	no change	no change	9430057O19Rik	RIKEN cDNA 9430057O19 gene
AU014878	down-regulated	no change	no change	no change	no change	9530053H05Rik	RIKEN cDNA 9530053H05 gene

C78625	Abpe	Androgen binding protein epsilon
BG067718	Acacb	Acetyl-Coenzyme A carboxylase beta
BG065605	Acp1	Acid phosphatase 1, soluble
BG065926	Adnp	Activity-dependent neuroprotective protein
BG065924	Akap2	A kinase (PRKA) anchor protein 2
BQ550902	Arf4	ADP-ribosylation factor 4
BG064531	Arl6ip5	ADP-ribosylation factor-like 6 interacting protein 5
BG082495	Asl	Argininosuccinate lyase
BG065913	BC021395	CDNA sequence BC021395
BG066972	Birc2	Baculoviral IAP repeat-containing 2
BQ550885	Btaf1	BTAf1 RNA polymerase II, B-TFIID transcription factor-associated
BG079699	Cct4	Chaperonin subunit 4 (delta)
BG065916	Cdc14a	CDC14 cell division cycle 14 homolog A (<i>S. cerevisiae</i>)
BG065925	Clasp2	CLIP associating protein 2
BG068414	Col25a1	Procollagen, type XXV, alpha 1
BG078879	Cox4i1	Cytochrome c oxidase subunit IV isoform 1
BG065918	Ctnna1	Catenin (cadherin associated protein), alpha 1
AA408369	Cubn	Cubilin (intrinsic factor-cobalamin receptor)
BG069391	D10Wsu102e	DNA segment, Chr 10, Wayne State University 102, expressed
AA407681	D17Wsu92e	DNA segment, Chr 17, Wayne State University 92, expressed
BG070630	D630040G17Rik	RIKEN cDNA D630040G17 gene
BG068420	D8Ert457e	DNA segment, Chr 8, ERATO Doi 457, expressed
BG069402	Ddef2	Development and differentiation enhancing factor 2
BG066942	Dnmt3b	DNA methyltransferase 3B
BG078883	Eif2b5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon
BG066167	Eif4enif1	Eukaryotic translation initiation factor 4E nuclear import factor 1
BQ550267	Ep400	E1A binding protein p400
BG069525	Ercc4	Excision repair cross-complementing complementation group 4
BG063061	Ermap	Erythroblast membrane-associated protein
BG065915	Etv6	Ets variant gene 6 (TEL oncogene)
BG074610	Glb1	Galactosidase, beta 1
BG079049	Heatr2	HEAT repeat containing 2
BG083210	Ift20	Intraflagellar transport 20 homolog (<i>Chlamydomonas</i>)
BG082154	Il4	Interleukin 4
BG087223	Itga3	Integrin alpha 3
C77408	Krt8	Keratin 8
C79740	Lace1	Lactation elevated 1

BQ550722	Las1l	LAS1-like (<i>S. cerevisiae</i>)
C78577	Lct	Lactase
C77316	Lima1	LIM domain and actin binding 1
AW544994	Limk1	LIM-domain containing, protein kinase
BG069375	Lin7c	Lin-7 homolog C (<i>C. elegans</i>)
BG066247	Lmo7	LIM domain only 7
BG063022	Lyn	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog
BG077319	Lzts2	Leucine zipper, putative tumor suppressor 2
BG078870	Mkrn1	Makorin, ring finger protein, 1
BG077638	Mrpl19	Mitochondrial ribosomal protein L19
BG066667	Mtap4	Microtubule-associated protein 4
C77431	Mterfd2	MTERF domain containing 2
BG065826	Nek2	NIMA (never in mitosis gene a)-related expressed kinase 2
BG071293	Nhlrc2	NHL repeat containing 2
AU014844	Ogdh	Oxoglutarate dehydrogenase (lipoamide)
BG072344	Orc1l	Origin recognition complex, subunit 1-like (<i>S.cereviaiae</i>)
AU041088	Pdlim1	PDZ and LIM domain 1 (elfin)
BG078872	Pfkfb2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
BG079475	Pik4ca	Phosphatidylinositol 4-kinase, catalytic, alpha polypeptide
BG074626	Prkg1	Protein kinase, cGMP-dependent, type I
BG066674	Prune	Prune homolog (<i>Drosophila</i>)
BG066621	Pttg1ip	Pituitary tumor-transforming 1 interacting protein
BG066306	Ranbp9	RAN binding protein 9
BG082817	Rb1	Retinoblastoma 1
BG082484	Rgs12	Regulator of G-protein signaling 12
AU040596	Rgs3	Regulator of G-protein signaling 3
BG063650	Rnf14	Ring finger protein 14
BG069143	Rpl23a	Ribosomal protein L23a
BG071958	Rpl7l1	Ribosomal protein L7-like 1
BG076676	Rps2	Ribosomal protein S2
BG066757	Sav1	Salvador homolog 1 (<i>Drosophila</i>)
BG081064	Secisbp2	SECIS binding protein 2
BG078882	Serpnb6c	Serine (or cysteine) peptidase inhibitor, clade B, member 6c
BG066686	Sfxn2	Sideroflexin 2
C78620	Sgta	Small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha
BG073944	Slc24a3	Solute carrier family 24 , member 3
BG069386	Slco4c1	Solute carrier organic anion transporter family, member 4C1

BG083050	Snap23	Synaptosomal-associated protein 23
BG070178	Snrpc	U1 small nuclear ribonucleoprotein C
BG066685	Tanc1	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1
BG081408	Tanc2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
BG075092	Tbc1d8	TBC1 domain family, member 8
BG066250	Tbx20	T-box 20
BG066559	Tnks1bp1	Tankyrase 1 binding protein 1
BG079172	Top2a	Topoisomerase (DNA) II alpha
BG087355	Tspan31	Tetraspanin 31
BG069398	Ttc7b	Tetratricopeptide repeat domain 7B
BG066560	Tubgcp5	Tubulin, gamma complex associated protein 5
BG079504	Tug1	Taurine upregulated gene 1
BG077259	Ubx1	UBX domain containing 1
BG066789	Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
BG079187	Vnn1	Vanin 1
BG076940	Wdr3	WD repeat domain 3
BQ551652	Zc3h7a	Zinc finger CCCH type containing 7 A
BG087501	Zcrb1	Zinc finger CCHC-type and RNA binding motif 1
AU016199	Zfand3	Zinc finger, AN1-type domain 3
BG066277	Zfp213	Zinc finger protein 213
BG068749	Zfp53	Zinc finger protein 53
BG066653	Zw10	ZW10 homolog (Drosophila), centromere/kinetochore protein
AU043706	EST	
AW538289	EST	
AW539579	EST	
BG063085	EST	
BG063888	EST	Transcribed locus
BG063926	EST	
BG064673	EST	
BG065585	EST	
BG065597	EST	Transcribed locus
BG065827	EST	Transcribed locus
BG065886	EST	
BG065888	EST	
BG065894	EST	
BG065917	EST	
BG065927	EST	

BG065928	EST	
BG065957	EST	
BG066273	EST	
BG066278	EST	
BG066288	EST	
BG066633	EST	
BG066668	EST	
BG066678	EST	weakly similar to XP_912058.1 hypothetical protein XP_906965
BG066964	EST	
BG067603	EST	
BG067898	EST	
BG067995	EST	Transcribed locus
BG068090	EST	
BG068410	EST	
BG068421	EST	
BG069363	EST	
BG070250	EST	
BG070572	EST	
BG070583	EST	
BG070587	EST	
BG070633	EST	Transcribed locus
BG071355	EST	
BG071603	EST	
BG071636	EST	
BG074900	EST	
BG076724	EST	
BG076725	EST	
BG076733	EST	
BG077241	EST	
BG079181	EST	
BQ550923	EST	
BQ552246	EST	
BQ552254	EST	
C79706	EST	
C79832	EST	
C85807	EST	
BG070497	1700055N04Rik	RIKEN cDNA 1700055N04 gene

BG076134		9330120H11Rik	RIKEN cDNA 9330120H11 gene
BG066705		Ak3l1	Adenylate kinase 3 alpha-like 1
C76512		E2f3	E2F transcription factor 3
C76805		Myl4	Myosin, light polypeptide 4
BG087703		Rgl2	Ral guanine nucleotide dissociation stimulator-like 2
BG064649		Rnps1	Ribonucleic acid binding protein S1
BG075206		Rpl6	Ribosomal protein L6
BG086119		Smarca5	SWI/SNF related actin dependent regulator of chromatin member 5
BG085591		Spop	Speckle-type POZ protein
BG070720		Trmt11	TRNA methyltransferase 11 homolog (<i>S. cerevisiae</i>)
BG071061		Ubp1	Upstream binding protein 1
AU015835		EST	
BG064980		EST	
BG072741		EST	CDNA, clone:Y2G0125B10
AW552799		2310065K24Rik	RIKEN cDNA 2310065K24 gene
BG086078		2900057D21Rik	RIKEN cDNA 2900057D21 gene
BG083257		4933426K21Rik	RIKEN cDNA 4933426K21 gene
BG064640		9230105E10Rik	RIKEN cDNA 9230105E10 gene
BG066196		C78409	Expressed sequence C78409
BG080183		Cd63	Cd63 antigen
BG076465		Cdk7	Cyclin-dependent kinase 7
BG073002		Cnbp	Cellular nucleic acid binding protein
BG085434		Crebzf	CREB/ATF bZIP transcription factor
BG085203		Derl2	Der1-like domain family, member 2
BG067113		Dpp7	Dipeptidylpeptidase 7
BG068310		Ednrb	Endothelin receptor type B
BG085518		Eraf	Erythroid associated factor
BG073045		Hbb-b1	Hemoglobin, beta adult major chain
BG085435		Impact	Imprinted and ancient
AW547817		Kit	Kit oncogene
BG064652		Maea	Macrophage erythroblast attacher
BG074668		Mcm2	Minichromosome maintenance deficient 2 mitotin (<i>S. cerevisiae</i>)
BG072673		Nfatc4	Nuclear factor of activated T-cells calcineurin-dependent 4
AW545298		Nubp2	Nucleotide binding protein 2
BG073000		Pcdhgc3	Protocadherin gamma subfamily C, 3
BG080166		Rabl3	RAB, member of RAS oncogene family-like 3
BG085760		Rgs19	Regulator of G-protein signaling 19

BG064641		Rpp14	Ribonuclease P 14 subunit (human)
BG085460		Rras2	Related RAS viral (r-ras) oncogene homolog 2
BG072662		Runx1	Runt related transcription factor 1
BG083409		S100a6	S100 calcium binding protein A6 (calcyclin)
BG085499		Sat1	Spermidine/spermine N1-acetyl transferase 1
BG068299		Slc7a8	Solute carrier family 7, member 8
BG068288		Slco1b2	Solute carrier organic anion transporter family, member 1b2
BG063419		Smap1	Stromal membrane-associated protein 1
BG084201		St8sia2	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2
BG073155		Thap2	THAP domain containing, apoptosis associated protein 2
BG086085		Thg1l	TRNA-histidine guanylyltransferase 1-like (<i>S. cerevisiae</i>)
BG085549		Trfp	Trf (TATA binding protein-related factor)-proximal protein homolog
BG063676		Trnt1	TRNA nucleotidyl transferase, CCA-adding, 1
BG073370		Ttc3	Tetratricopeptide repeat domain 3
BG076486		U2af114	U2 small nuclear RNA auxiliary factor 1-like 4
BG086421		Usmg5	Upregulated during skeletal muscle growth 5
BG065982		Vav2	Vav2 oncogene
BG072642		Zfp508	Zinc finger protein 508
BG075241		Zfp521	Zinc finger protein 521
AW557547		EST	
BG063735		EST	
BG064580		EST	
BG067928		EST	
BG068316		EST	
BG072970		EST	
BG073099		EST	
BG073183		EST	
BG074614		EST	Transcribed locus
BG074801		EST	
BG075264		EST	
BG075277		EST	
BG075278		EST	
BG078136		EST	
BG081202		EST	
BG087986		EST	
BG066318		1500011H22Rik	RIKEN cDNA 1500011H22 gene
AU040419		4933439F18Rik	RIKEN cDNA 4933439F18 gene

BG087608		9130011J15Rik	RIKEN cDNA 9130011J15 gene
BG077733		Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
BG081377		Atp6v1a	ATPase, H ⁺ transporting, lysosomal V1 subunit A
BG072887		Btbd9	BTB (POZ) domain containing 9
BG066233		C78532	Expressed sequence C78532
BG086283		Eif4e2	Eukaryotic translation initiation factor 4E member 2
BG088952		Gstm1	Glutathione S-transferase, mu 1
BG087638		H19	H19 fetal liver mRNA
BQ552620		Jag1	Jagged 1
BG086291		LOC245350	Similar to ubiquitin-conjugating enzyme E2Q (putative) 2
BG085336		Matn2	Matrilin 2
BG075177		Myst3	MYST histone acetyltransferase (monocytic leukemia) 3
BG078945		Nsf	N-ethylmaleimide sensitive fusion protein
BG087474		Pcolce	Procollagen C-endopeptidase enhancer protein
BG070942		Poldip3	Polymerase (DNA-directed), delta interacting protein 3
BG072553		Rab11fip1	RAB11 family interacting protein 1 (class I)
BG075169		Scoc	Short coiled-coil protein
BG081012		Snrpb2	U2 small nuclear ribonucleoprotein B
BG085672		Txn15	Thioredoxin-like 5
BG075178		Ubr1	Ubiquitin protein ligase E3 component n-recognin 1
BG063694		Vcl	Vinculin
AW544835		EST	
BG064292		EST	
BG074841		EST	
BG077653		EST	
BG084098		EST	
BQ550064		EST	
BG068253		3110031B13Rik	RIKEN cDNA 3110031B13 gene
BG077620		Abcb6	ATP-binding cassette, sub-family B (MDR/TAP), member 6
BG069344		Acsl4	Acyl-CoA synthetase long-chain family member 4
BG071216		Adc	Arginine decarboxylase
AW536428		Blmh	Bleomycin hydrolase
C87415		Chchd2	Coiled-coil-helix-coiled-coil-helix domain containing 2
BG069365		Dph3	DPH3 homolog (KT111, <i>S. cerevisiae</i>)
BG063112		Gemin5	Gem (nuclear organelle) associated protein 5
BG067706		Gpt2	Glutamic pyruvate transaminase (alanine aminotransferase) 2
BG086684		Sh2d4a	SH2 domain containing 4A

BG082669		Snap29	Synaptosomal-associated protein
BG064925		Stx3	Syntaxin 3
BG074161		Tmem123	Transmembrane protein 123
C79533		EST	
BG066697		Hn1	Hematological and neurological expressed sequence 1
BG067211		Cald1	Caldesmon 1
BG081778		Dock4	Dedicator of cytokinesis 4
BG067668		Emr4	EGF-like module containing, hormone receptor-like sequence 4
BG067311		Fbxw17	F-box and WD-40 domain protein 17
BG067296		Fut10	Fucosyltransferase 10
BG068682		Hs3st5	Heparan sulfate (glucosamine) 3-O-sulfotransferase 5
BG087199		Jtv1	JTV1 gene
BG079912		Mllt3	Myeloid/lymphoid translocation to 3 homolog (Drosophila)
BG066947		Ndp52	Nuclear domain 10 protein 52
BG067252		Nf1	Neurofibromatosis 1
BG067626		Ptgrn	Prostaglandin F2 receptor negative regulator
BG074312		Ptprs	Protein tyrosine phosphatase, receptor type, S
AW553963		Rbm19	RNA binding motif protein 19
BG080375		Sars2	Seryl-aminoacyl-tRNA synthetase 2
BG081031		Smox	Spermine oxidase
BG067974		Thsd7b	Thrombospondin, type I, domain containing 7B
BG080366		Tieg3	TGFB inducible early growth response 3
BG067300		Tinag	Tubulointerstitial nephritis antigen
BG066958		EST	
BG066978		EST	
BG067243		EST	
BG067651		EST	
BG068752		EST	
BG074322		EST	Transcribed locus
BG076211		EST	Transcribed locus
C87682		EST	
BG069658		Ccdc65	Coiled-coil domain containing 65
BG069669		Cep27	Centrosomal protein 27
BG072092		Gnai2	Guanine nucleotide binding protein, alpha inhibiting 2
BG069607		Klf5	Kruppel-like factor 5
BG072106		Nfatc3	Nuclear factor of activated T-cells calcineurin-dependent 3
AU042865		Nfia	Nuclear factor I/A

BG084586		Rasd2	RASD family, member 2
BG070495		EST	
BI076458		EST	
BG071239		1300007C21Rik	RIKEN cDNA 1300007C21 gene
BG071422		2410003P15Rik	RIKEN cDNA 2410003P15 gene
BG069482		6330409N04Rik	RIKEN cDNA 6330409N04 gene
BG067132		A330019N05Rik	RIKEN cDNA A330019N05 gene
BG065410		Adipor1	Adiponectin receptor 1
BG073281		Ankrd12	Ankyrin repeat domain 12
BG079901		Arl14	ADP-ribosylation factor-like 14
BG064661		Basp1	Brain abundant, membrane attached signal protein 1
BG086840		Btf3l4	Basic transcription factor 3-like 4
BG063697		Cbfa2t2	Core-binding factor, runt domain, alpha subunit 2, translocated to, 2
BG071679		Ccdc86	Coiled-coil domain containing 86
BG066811		Ccdc96	Coiled-coil domain containing 96
AU045206		Cobl	Cordon-bleu
BG070570		D030022P06Rik	RIKEN cDNA D030022P06 gene
BG071270		D18Ert653e	DNA segment, Chr 18, ERATO Doi 653, expressed
C77319		Fanca	Fanconi anemia, complementation group A
BG065048		Ghdc	GH3 domain containing
BG071378		Gstcd	Glutathione S-transferase, C-terminal domain containing
BG069255		Hira	Histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>)
BG070896		Jam2	Junction adhesion molecule 2
C87853		Kns2	Kinesin 2
BG071666		Ldb2	LIM domain binding 2
AU041108		Map2k1	Mitogen activated protein kinase kinase 1
BG070504		Map4k4	Mitogen-activated protein kinase kinase kinase kinase 4
BG062982		Mrps7	Mitochondrial ribosomal protein S7
BG067927		Mtf1	Metal response element binding transcription factor 1
BG076562		Ndufb7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7
AA409376		Nfya	Nuclear transcription factor-Y alpha
BG063222		Pecam1	Platelet/endothelial cell adhesion molecule 1
BG069085		Pex2	Peroxin 2
BG063170		Phkb	Phosphorylase kinase beta
BG064672		Procr	Protein C receptor, endothelial
BG079933		Rnf8	Ring finger protein 8
BG063372		Safb2	Scaffold attachment factor B2

BG071387		Slc39a8	Solute carrier family 39 (metal ion transporter), member 8
AU040617		Ss18	Synovial sarcoma translocation, Chromosome 18
BG068391		Sugt1	SGT1, suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>)
BG082016		Taf7	TAF7 RNA polymerase II TATA box binding protein-associated factor
BG071231		Tmem183a	Transmembrane protein 183A
BG077934		Tpm4	Tropomyosin 4
AU019171		Ttpa	Tocopherol (alpha) transfer protein
BG063080		Xrn2	5'-3' exoribonuclease 2
BG066091		EST	
BG066734		EST	
BG067939		EST	
BG068312		EST	
BG069001		EST	
BG069013		EST	
BG069027		EST	Transcribed locus
BG071184		EST	
BG071413		EST	
BG073835		EST	
BG084304		EST	
BG087407		EST	
BQ550895		EST	Transcribed locus
BG064116		EST	Membrane-associated ring finger (C3HC4) 7
BG080498		1700124P09Rik	RIKEN cDNA 1700124P09 gene
BG067245		2210009G21Rik	RIKEN cDNA 2210009G21 gene
BG076408		2610206B13Rik	RIKEN cDNA 2610206B13 gene
BG064481		2810403A07Rik	RIKEN cDNA 2810403A07 gene
BG076132		Abhd14a	Abhydrolase domain containing 14A
BG077302		Atf7ip	Activating transcription factor 7 interacting protein
BG067472		Banp	Btg3 associated nuclear protein
BG067486		BC004728	CDNA sequence BC004728
BG067471		BC063749	CDNA sequence BC063749
BG069214		Birc3	Baculoviral IAP repeat-containing 3
BG067622		C86942	Expressed sequence C86942
BG067632		Ccdc32	Coiled-coil domain containing 32
BG072648		Cript	Cysteine-rich PDZ-binding protein
BG067477		D1Ertd448e	DNA segment, Chr 1, ERATO Doi 448, expressed
BG086416		Eif4g3	Eukaryotic translation initiation factor 4 gamma, 3

BG067419		Gadd45g	Growth arrest and DNA-damage-inducible 45 gamma
AW551017		Gprasp1	G protein-coupled receptor associated sorting protein 1
BG067430		H3f3b	H3 histone, family 3B
BG072751		Hdac11	Histone deacetylase 11
BG067483		Hddc3	HD domain containing 3
BG074924		Itfg1	Integrin alpha FG-GAP repeat containing 1
BG067445		Kpna6	Karyopherin (importin) alpha 6
BG074351		Lmcd1	LIM and cysteine-rich domains 1
BG088292		Mapk8ip3	Mitogen-activated protein kinase 8 interacting protein 3
BG067469		Mef2a	Myocyte enhancer factor 2A
BG075365		Msl31	Male-specific lethal-3 homolog 1 (Drosophila)
BG066971		Nudt4	Nudix (nucleoside diphosphate linked moiety X)-type motif 4
BG080492		Oas1c	2'-5' oligoadenylate synthetase 1C
BG080500		Ovgp1	Oviductal glycoprotein 1
BG080549		Plac9	Placenta specific 9
BG077413		Pnpo	Pyridoxine 5'-phosphate oxidase
BG067409		Rapgef2	Rap guanine nucleotide exchange factor (GEF) 2
AW539814		Rbm26	RNA binding motif protein 26
BG076087		Rpl21	Ribosomal protein L21
BG088213		Rps15	Ribosomal protein S15
AW539298		Sars	Seryl-aminoacyl-tRNA synthetase
AW539785		Sh3bp5l	SH3 binding domain protein 5 like
BG075644		Smad3	MAD homolog 3 (Drosophila)
BG067447		Tada1l	Transcriptional adaptor 1 (HF11 homolog, yeast) like
BG075809		Tbl1x	Transducin (beta)-like 1 X-linked
BG075419		Tmem55b	Transmembrane protein 55b
BG064433		Tomm34	Translocase of outer mitochondrial membrane 34
BG086976		Tut1	Terminal uridylyl transferase 1, U6 snRNA-specific
BG074925		Ube2j1	Ubiquitin-conjugating enzyme E2, J1
BG088167		Vars2l	Valyl-tRNA synthetase 2-like
AW552886		Vcp	Valosin containing protein
AW542365		Vil2	Villin 2
BG075633		Wdr47	WD repeat domain 47
BG075330		Wdr62	WD repeat domain 62
BG075683		Ywhaq	Tyrosine 3-monooxygenaseactivation protein theta
AW549478		EST	
AW553271		EST	

AW555035		EST
AW555711		EST
BG067398		EST
BG067418		EST
BG067431		EST
BG067459		EST
BG067470		EST
BG067473		EST
BG067474		EST
BG067476		EST
BG067494		EST
BG067575		EST
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BG067621		EST
BG069712		EST
BG074316		EST
BG076798		EST
BG080198		EST
BG080525		EST
BG080543		EST
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BI076812		EST
BQ550570		EST
BQ550698		EST
C85257		EST

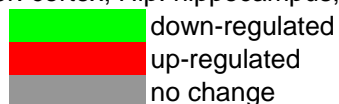
Transcribed locus

strongly similar to XP_342893.2 similar to KIAA0467 protein

clone:G730002L02 product:unclassifiable, full insert sequence

TableS4a-16M. CR responsive gene lists of 16M mouse CNS.

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.



Acc	Cor-16-cr	Hip-16-cr	Cer-16-cr	Str-16-cr	SC-16-cr	Symbol	Name
C86087	no change	down-regulated	down-regulated	no change	down-regulated	0610012H03Rik	RIKEN cDNA 0610012H03 gene
BG063365	no change	down-regulated	down-regulated	no change	down-regulated	Cxcr4	Chemokine (C-X-C motif) receptor 4
BG078505	no change	down-regulated	down-regulated	no change	down-regulated	Snta1	Syntrophin, acidic 1
AW548741	no change	down-regulated	down-regulated	no change	down-regulated	EST	
BG069856	no change	down-regulated	down-regulated	no change	down-regulated	Ccnc	Cyclin C
C85066	no change	down-regulated	down-regulated	no change	down-regulated	4933427D06Rik	RIKEN cDNA 4933427D06 gene
BG067190	no change	down-regulated	down-regulated	no change	down-regulated	Ankrd6	Ankyrin repeat domain 6
BG085595	no change	down-regulated	down-regulated	no change	down-regulated	Bmp1	Bone morphogenetic protein 1
BG064962	down-regulated	down-regulated	down-regulated	no change	down-regulated	Purb	Purine rich element binding protein B
BG073370	down-regulated	down-regulated	down-regulated	no change	down-regulated	Ttc3	Tetratricopeptide repeat domain 3
BG077072	no change	down-regulated	down-regulated	no change	down-regulated	Actb	Actin, beta, cytoplasmic
BG078597	no change	down-regulated	down-regulated	no change	down-regulated	Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1
BG065313	no change	down-regulated	down-regulated	no change	down-regulated	Atp6v1e1	VATPase, H ⁺ transporting, lysosomal V1 subunit E1
BG063697	no change	down-regulated	down-regulated	no change	down-regulated	Cbfa2t2	Core-binding factor, runt domain translocated to 2
AU021534	no change	down-regulated	down-regulated	no change	down-regulated	Fen1	Flap structure specific endonuclease 1
BG063707	no change	down-regulated	down-regulated	no change	down-regulated	Lmln	Leishmanolysin-like (metallopeptidase M8 family)
BG064569	no change	down-regulated	down-regulated	no change	down-regulated	Ncbp2	Nuclear cap binding protein subunit 2
BG078157	no change	down-regulated	down-regulated	no change	down-regulated	Sfrs3	Splicing factor, arginine/serine-rich 3 (SRp20)
BG086829	no change	down-regulated	down-regulated	no change	down-regulated	Sypl	Synaptophysin-like protein
BG063666	no change	down-regulated	down-regulated	no change	down-regulated	Tex19	Testis expressed gene 19
AW538365	no change	down-regulated	down-regulated	no change	down-regulated	EST	
BG080382	no change	down-regulated	down-regulated	no change	down-regulated	5730427N09Rik	RIKEN cDNA 5730427N09 gene
BG067365	no change	down-regulated	down-regulated	no change	down-regulated	A430060F13Rik	RIKEN cDNA A430060F13 gene
BG067334	no change	down-regulated	down-regulated	no change	down-regulated	Abr	Active BCR-related gene
BG063733	no change	down-regulated	down-regulated	no change	down-regulated	Cs	Citrate synthase
BG067344	no change	down-regulated	down-regulated	no change	down-regulated	Eya1	Eyes absent 1 homolog (Drosophila)
BG077082	no change	down-regulated	down-regulated	no change	down-regulated	Fbxl5	F-box and leucine-rich repeat protein 5
BG078495	no change	down-regulated	down-regulated	no change	down-regulated	Smarce1	SWI/SNF, regulator of chromatin member 1

BG064553			Thumpd1	THUMP domain containing 1
BG076581			Tmed2	Transmembrane emp24 domain trafficking protein 2
BG067312			Tnfsf13b	Tumor necrosis factor (ligand) superfamily, member 13b
BG064591			Tom70a	Translocase of outer mitochondrial membrane 70 homolog A
BG063028			Wipf2	WAS/WASL interacting protein family, member 2
AA409509			EST	
AU024393			EST	
BG063085			EST	
BG077145			EST	
BG063241			EST	
BG072287			Cenpk	Centromere protein K
C85807			EST	
AU015471			2610529C04Rik	RIKEN cDNA 2610529C04 gene
BG074649			A530089I17Rik	RIKEN cDNA A530089I17 gene
BG068370			Clasp2	CLIP associating protein 2
BG079703			Cstf3	Cleavage stimulation factor, 3' pre-RNA, subunit 3
BG072223			Dst	Dystonin
BG071581			Dtl	Denticleless homolog (Drosophila)
BG065623			Etnk1	Ethanolamine kinase 1
BG065612			Lrrk2	Leucine-rich repeat kinase 2
BG085736			Pias1	Protein inhibitor of activated STAT 1
BG066098			EST	
AU014878			9530053H05Rik	RIKEN cDNA 9530053H05 gene
BG071181			Shroom3	Shroom family member 3
BG066800			Thap2	THAP domain containing, apoptosis associated protein 2
BG069655			Xrcc1	X-ray repair complementing defective repair in hamster cells 1
BG065827			EST	Transcribed locus
BG065989			EST	
BG066123			EST	
BG066596			EST	
BG064439			Nsdhl	NAD(P) dependent steroid dehydrogenase-like
BQ550162			2510006D16Rik	RIKEN cDNA 2510006D16 gene
BG066635			2900009I07Rik	RIKEN cDNA 2900009I07 gene
BG078323			5730536A07Rik	RIKEN cDNA 5730536A07 gene
C78625			Abpe	Androgen binding protein epsilon
C76711			Aco2	Aconitase 2, mitochondrial
BG065093			Agtrap	Angiotensin II, type I receptor-associated protein

BQ550170		Ap3b1	Adaptor-related protein complex 3, beta 1 subunit
BQ550902		Arf4	ADP-ribosylation factor 4
BG070091		Arih1	Ariadne ubiquitin-conjugating enzyme E2 binding protein 1
BG065780		Atp6v0a2	ATPase, H ⁺ transporting, lysosomal V0 subunit A2
BG066708		AU020772	Expressed sequence AU020772
BG079668		Baz1a	Bromodomain adjacent to zinc finger domain 1A
BG083308		BC013481	CDNA sequence BC013481
AU043350		Bub3	Budding uninhibited by benzimidazoles 3 homolog
BG075437		C80913	Expressed sequence C80913
BG065916		Cdc14a	CDC14 cell division cycle 14 homolog A (<i>S. cerevisiae</i>)
BG069719		Celsr1	Cadherin EGF LAG seven-pass G-type receptor 1
BQ550384		Chd4	Chromodomain helicase DNA binding protein 4
BG072062		Chordc1	Cysteine and histidine-rich domain-, zinc-binding protein 1
BG084126		Ctdsp1	CTD small phosphatase 1
BG066339		D12Ertd216e	DNA segment, Chr 12, ERATO Doi 216, expressed
BG066604		D3Ertd254e	DNA segment, Chr 3, ERATO Doi 254, expressed
BG065769		D5Ertd135e	DNA segment, Chr 5, ERATO Doi 135, expressed
BG075447		Denr	Density-regulated protein
BQ550786		Eif4g1	Eukaryotic translation initiation factor 4, gamma 1
BQ550168		Fnip1	Folliculin interacting protein 1
BG065768		Foxo3a	Forkhead box O3a
BQ551226		Hbxip	Hepatitis B virus x interacting protein
BG083097		Hcfc1	Host cell factor C1
BG072073		Ift122	Intraflagellar transport 122 homolog (<i>Chlamydomonas</i>)
BG070889		Ilf3	Interleukin enhancer binding factor 3
BG072272		LOC629750	ubiquitin A-52 residue ribosomal protein fusion product 1
BQ552466		Mapkap1	Mitogen-activated protein kinase associated protein 1
BG067912		Mrg1	Myeloid ecotropic viral integration site-related gene 1
BQ552525		Mrpl45	Mitochondrial ribosomal protein L45
BG070274		Nlk	Nemo like kinase
AU044227		Paf1	Paf1, RNA polymerase II associated factor, homolog
BG069047		Pam	Peptidylglycine alpha-amidating monooxygenase
BG069649		Ppp4r2	Protein phosphatase 4, regulatory subunit 2
BG065524		Prei3	Preimplantation protein 3
BG079293		Psma3	Proteasome (prosome, macropain) subunit, alpha type 3
BQ550154		Psma7	Proteasome (prosome, macropain) subunit, alpha type 7
C76941		Ranbp5	RAN binding protein 5

BG074676		Rnf12	Ring finger protein 12
BG072412		Sdk1	Sidekick homolog 1 (chicken)
BG066516		Smtn	Smoothelin
BG079034		Sphk2	Sphingosine kinase 2
BG069945		Stag2	Stromal antigen 2
BQ552335		Stxbp4	Syntaxin binding protein 4
BQ550610		Tmco1	Transmembrane and coiled-coil domains 1
BQ551834		Tshz2	Teashirt zinc finger family member 2
BG083613		Usp1	Ubiquitin specific peptdiase 1
BQ551195		Ypel1	Yippee-like 1 (Drosophila)
BQ550996		Ywhaq	Tyrosine 3-monooxygenase activation protein, theta
BG066683		Zfp292	Zinc finger protein 292
BG062993		EST	
BG063398		EST	clone:B020036G17 product:unclassifiable
BG063492		EST	
BG064384		EST	
BG064695		EST	Transcribed locus
BG065779		EST	
BG066008		EST	
BG066122		EST	
BG066371		EST	
BG066494		EST	
BG066720		EST	
BG066821		EST	
BG067146		EST	
BG068191		EST	
BG068598		EST	
BG069298		EST	
BG069377		EST	
BG070142		EST	
BG071272		EST	
BG071371		EST	
BG071862		EST	
BG071206		EST	
BG075658		EST	
BG076121		EST	
BG079181		EST	

BG083327					EST	
BG083661					EST	
BG086800					EST	
BQ550036					EST	
BQ550125					EST	Transcribed locus
BQ550149					EST	
BQ550186					EST	
BQ550326					EST	
BQ552422					EST	
BQ552523					EST	
C78587					EST	
C79520					EST	
AW556839					G3bp2	GTPase activating protein (SH3 domain) binding protein 2
BG082357					EST	
BG066980					Kif22	Kinesin family member 22
BG066832					Abcc1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1
BQ551560					Baz2b	Bromodomain adjacent to zinc finger domain, 2B
BG071213					Rnf170	Ring finger protein 170
BI076814					Dbt	Dihydrolipoamide branched chain transacylase E2
BG084814					Eif5b	Eukaryotic translation initiation factor 5B
BG068215					Fus	Fusion, derived from t(12;16) malignant liposarcoma (human)
BG070639					Grb2	Growth factor receptor bound protein 2
BG081236					Lats1	Large tumor suppressor
BG079578					Npc1	Niemann Pick type C1
AU021253					Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
BQ552754					Rabep1	Rabaptin, RAB GTPase binding effector protein 1
BG066988					2700085E05Rik	RIKEN cDNA 2700085E05 gene
BG070779					Bbs2	Bardet-Biedl syndrome 2 homolog (human)
BG086462					Cab39	Calcium binding protein 39
BG073423					Cdk9	Cyclin-dependent kinase 9 (CDC2-related kinase)
BG074165					Klhl2	Kelch-like 2, Mayven (Drosophila)
BG071483					Prune	Prune homolog (Drosophila)
BG086311					Psm4	Proteasome 26S subunit, non-ATPase, 4
AW550877					Pygo2	Pygopus 2
BG073628					Rab5a	RAB5A, member RAS oncogene family
BG086430					Rpl31	Ribosomal protein L31
BQ550540					Spn	Sialophorin

BG073446		Th11	TH1-like homolog (Drosophila)
BG074132		Ube1l2	Ubiquitin-activating enzyme E1-like 2
AW551043		Zbtb5	Zinc finger and BTB domain containing 5
BG064580		EST	
BG068443		EST	
BG068646		EST	
BG076521		EST	
BG072966		A530054K11Rik	RIKEN cDNA A530054K11 gene
BG084818		A930015D03Rik	RIKEN cDNA A930015D03 gene
BG075232		Aox3	Aldehyde oxidase 3
BG072984		Cltc	Clathrin, heavy polypeptide (Hc)
BG069355		E2f7	E2F transcription factor 7
BG072869		Emx2	Empty spiracles homolog 2 (Drosophila)
C88347		Fbxl17	F-box and leucine-rich repeat protein 17
BG066226		Gnl2	Guanine nucleotide binding protein-like 2 (nucleolar)
BG086162		Meis1	Myeloid ecotropic viral integration site 1
BG068193		Ndfip1	Nedd4 family interacting protein 1
AU022521		Nsun3	NOL1/NOP2/Sun domain family 3
BG084681		Rplp2	Ribosomal protein, large P2
BG063524		Slc20a2	Solute carrier family 20, member 2
BG076120		Smurf1	SMAD specific E3 ubiquitin protein ligase 1
BG066876		Tgif2	TGFB-induced factor 2
BG066180		Ttn	Titin
BG065129		EST	
BG065624		EST	
BG066670		EST	
BG068148		EST	
BG070566		EST	similar to ubiquitin specific protease 34
BG071636		EST	
BG072070		EST	
BG072236		EST	moderately similar to NP_001029309.1 nuclear body protein
BG072975		EST	
BG073953		EST	
C80706		EST	
BG063535		1810008A14Rik	RIKEN cDNA 1810008A14 gene
BG067755		2610042O14Rik	RIKEN cDNA 2610042O14 gene
BG077031		4632428N05Rik	RIKEN cDNA 4632428N05 gene

BG074315		4930566A11Rik	RIKEN cDNA 4930566A11 gene
BG076093		4933425L03Rik	RIKEN cDNA 4933425L03 gene
BG076997		4933439C20Rik	RIKEN cDNA 4933439C20 gene
BG064168		5830416A07Rik	RIKEN cDNA 5830416A07 gene
BG085932		6330577E15Rik	RIKEN cDNA 6330577E15 gene
BG067084		6430524H05Rik	RIKEN cDNA 6430524H05 gene
BG076134		9330120H11Rik	RIKEN cDNA 9330120H11 gene
BG078031		Abcf1	ATP-binding cassette, sub-family F (GCN20), member 1
BG068560		Acacb	Acetyl-Coenzyme A carboxylase beta
BG064929		Aga	Aspartylglucosaminidase
BG076190		AI462493	Expressed sequence AI462493
BG079989		Alb1	Albumin 1
BG064654		Alg5	Asparagine-linked glycosylation 5 homolog
BG078088		Alg9	Asparagine-linked glycosylation 9 homolog
BG067799		Angpt2	Angiopoietin 2
BG067528		Angpt4	Angiopoietin 4
AW545312		Apoa1bp	Apolipoprotein A-I binding protein
BG088532		Arl8b	ADP-ribosylation factor-like 8B
AW552880		Arsg	Arylsulfatase G
BG080320		Atg5	Autophagy-related 5 (yeast)
AW539206		Atg7	Autophagy-related 7 (yeast)
AW539306		Atp13a1	ATPase type 13A1
BG088873		Atp5e	ATP synthase, mitochondrial F1 complex, epsilon subunit
AA408469		AU022870	Expressed sequence AU022870
BG065113		Bcat1	Branched chain aminotransferase 1, cytosolic
BG064818		Bmp2k	BMP2 inducible kinase
BG067443		C86371	Expressed sequence C86371
BG064770		Cct5	Chaperonin subunit 5 (epsilon)
BG064644		Ceacam9	CEA-related cell adhesion molecule 9
BG077858		Chchd4	Coiled-coil-helix-coiled-coil-helix domain containing 4
BG064557		Cramp1l	Crn, cramped-like (Drosophila)
BG063848		Csh1	Chorionic somatomammotropin hormone 1
BG067266		Csm1	CUB and Sushi multiple domains 1
C85908		Cyp1b1	Cytochrome P450, family 1, subfamily b, polypeptide 1
BG075368		D10Bwg1364e	Chr 10, Brigham & Women's Genetics 1364 expressed
BG080329		Dcamk12	Doublecortin and CaM kinase-like 2
BG064850		Diablo	Diablo homolog (Drosophila)

BG078688	Dtnb	Dystrobrevin, beta
BG066834	E030041M21Rik	RIKEN cDNA E030041M21 gene
BG067562	E230022H04Rik	RIKEN cDNA E230022H04 gene
BG063729	EG433273	Predicted gene, EG433273
BG088888	Elmo2	Engulfment and cell motility 2, ced-12 homolog (C. elegans)
BG064847	Emb	Embigin
BG088166	Entpd4	Ectonucleoside triphosphate diphosphohydrolase 4
BG085518	Eraf	Erythroid associated factor
BG063865	Errfi1	ERBB receptor feedback inhibitor 1
C86775	Exoc1	Exocyst complex component 1
BG087964	Fkbp9	FK506 binding protein 9
BG080476	Folr4	Folate receptor 4 (delta)
BG087011	Gatm	Glycine amidinotransferase
BG067640	Gdf9	Growth differentiation factor 9
BG064771	Gnpda1	Glucosamine-6-phosphate deaminase 1
BG064747	Gpt1	Glutamic pyruvic transaminase 1, soluble
BG072757	Gspt1	G1 to S phase transition 1
BG070501	Gstm2	Glutathione S-transferase, mu 2
BG064676	Gtf2h4	General transcription factor II H, polypeptide 4
BG062947	H2afj	H2A histone family, member J
BG072751	Hdac11	Histone deacetylase 11
BG075868	Hebp1	Heme binding protein 1
AU020524	Hmgcs1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
BG064772	Hsp90aa1	Heat shock protein 90kDa alpha (cytosolic), class A member 1
BG080499	Hspbap1	Hspb associated protein 1
BG063830	Htf9c	Hpall tiny fragments locus 9c
BG078204	Ict1	Immature colon carcinoma transcript 1
BG085901	Ifitm2	Interferon induced transmembrane protein 2
BG075038	Igf2r	Insulin-like growth factor 2 receptor
BG086828	Ipo13	Importin 13
AW543967	Itfg2	Integrin alpha FG-GAP repeat containing 2
C87450	Kbtbd8	Kelch repeat and BTB (POZ) domain containing 8
BG064797	Ldha	Lactate dehydrogenase A
BG079450	Lima1	LIM domain and actin binding 1
BG080364	LOC632361	Similar to L-plastin (Lymphocyte cytosolic protein 1) (LCP-1)
BG064854	Lrp2	Low density lipoprotein receptor-related protein 2
BG072998	Lum	Lumican

BG077180		Map2k3	Mitogen activated protein kinase kinase 3
BG075357		Mcm6	Minichromosome maintenance deficient 6
BG067541		Mcoln2	Mucolipin 2
BG080755		Mef2d	Myocyte enhancer factor 2D
BG077972		Mical2	Microtubule associated monooxygenase,
BG077730		Mrpl38	Mitochondrial ribosomal protein L38
BG077482		Mtdh	Metadherin
BG073634		Mterfd3	MTERF domain containing 3
AW543748		Myo1c	Myosin IC
BG063881		Neu1	Neuraminidase 1
BG067465		Nlrp14	NLR family, pyrin domain containing 14
BG064905		Nol1	Nucleolar protein 1
BG067766		Nr1h2	Nuclear receptor subfamily 1, group H, member 2
BG074323		Nr2c2	Nuclear receptor subfamily 2, group C, member 2
BG076033		Nr3c2	Nuclear receptor subfamily 3, group C, member 2
BG064733		Nrbp1	Nuclear receptor binding protein 1
BG074139		Nsun4	NOL1/NOP2/Sun domain family, member 4
AW545298		Nubp2	Nucleotide binding protein 2
BG076212		Nup43	Nucleoporin 43
BG067274		Onecut1	One cut domain, family member 1
BG078151		Oxsr1	Oxidative-stress responsive 1
BG064819		Pa2g4	Proliferation-associated 2G4
AW543682		Panx1	Pannexin 1
BG063644		Papss1	3'-phosphoadenosine 5'-phosphosulfate synthase 1
BG080462		Pard3	Par-3 (partitioning defective 3) homolog (C. elegans)
BG067246		Pctk3	PCTAIRE-motif protein kinase 3
BG080838		Pde8a	Phosphodiesterase 8A
BG082933		Pdlim7	PDZ and LIM domain 7
AW557879		Pdzk1	PDZ domain containing 1
BG085578		Pes1	Pescadillo homolog 1, containing BRCT domain (zebrafish)
BG065238		Phf17	PHD finger protein 17
BG074157		Phip	Pleckstrin homology domain interacting protein
AW539318		Pif	Proliferin
AW544029		Plixnb2	Plexin B2
BG080374		Ppap2b	Phosphatidic acid phosphatase type 2B
C75970		Ppp2cb	Protein phosphatase 2, catalytic subunit, beta isoform
BG076080		Pprc1	Peroxisome proliferative activated receptor gamma coactivator-1

BG066825	Pramel6	Preferentially expressed antigen in melanoma like 6
BG074189	Prim1	DNA primase, p49 subunit
BG064767	Prmt3	Protein arginine N-methyltransferase 3
BG064866	Prps1	Phosphoribosyl pyrophosphate synthetase 1
BG078023	Psmc2	Proteasome (prosome, macropain) 26S subunit, ATPase 2
BG080618	Pvr	Poliovirus receptor
BG088279	Rab3b	RAB3B, member RAS oncogene family
BG077349	Rbm28	RNA binding motif protein 28
BG076295	Rbm6	RNA binding motif protein 6
BG080756	Rin3	Ras and Rab interactor 3
BG078823	rp9	Retinitis pigmentosa 9 (human)
BG078679	Rpl30	Ribosomal protein L30
BG077851	Rpl41	Ribosomal protein L41
BG072822	Rpsa	Ribosomal protein SA
BG078138	Rrm2	Ribonucleotide reductase M2
BG064820	Sae1	SUMO1 activating enzyme subunit 1
BG064756	Sall4	Sal-like 4 (Drosophila)
BG085555	Sec23ip	Sec23 interacting protein
BG079624	Serpine2	Serine (or cysteine) peptidase inhibitor, clade E, member 2
BG080632	Sfmbt1	Scm-like with four mbt domains 1
BG088842	Sh3d19	SH3 domain protein D19
BG074293	Sh3tc2	SH3 domain and tetratricopeptide repeats 2
BG064126	Slc2a1	Solute carrier family 2 member 1
BG076188	Slc39a4	Solute carrier family 39 (zinc transporter), member 4
BG072739	Sox11	SRY-box containing gene 11
BG067720	Spfh2	SPFH domain family, member 2
BG074133	Spsb1	SplA/ryanodine receptor domain and SOCS box containing 1
BG064318	Srebf1	Sterol regulatory element binding factor 1
BG074052	Srfbp1	Serum response factor binding protein 1
BG080331	Star	Steroidogenic acute regulatory protein
BG080328	Stk11	Serine/threonine kinase 11
BG073409	Stmn1	Stathmin 1
BG076031	Sumo3	SMT3 suppressor of mif two 3 homolog 3 (yeast)
BG067810	Tanc2	Tetratricopeptide repeat and coiled-coil containing 2
BG088774	Tcfcp2l1	Transcription factor CP2-like 1
BG082196	Tiparp	TCDD-inducible poly(ADP-ribose) polymerase
BG087081	Tmem59	Transmembrane protein 59

BG083135	Tmod3	Tropomodulin 3
BG067553	Tnc	Tenascin C
BG078038	Topors	Topoisomerase I binding, arginine/serine-rich
BG074369	Trio	Triple functional domain (PTPRF interacting)
BG067542	Troap	Trophinin associated protein
BG075029	Trp53	Transformation related protein 53
BG067378	Trp53bp1	Transformation related protein 53 binding protein 1
BG064838	Tuba2	Tubulin, alpha 2
BG064831	Tubb2c	Tubulin, beta 2c
BG078001	Ube1x	Ubiquitin-activating enzyme E1, Chr X
BG086847	Ube3b	Ubiquitin protein ligase E3B
BG087946	Ubtf	Upstream binding transcription factor, RNA polymerase I
BG065028	Uhrf1	Ubiquitin-like, containing PHD and RING finger domains, 1
BG081577	Wdr42a	WD repeat domain 42A
BG077395	Yars	Tyrosyl-tRNA synthetase
AW539280	Yif1a	Yip1 interacting factor homolog A (S. cerevisiae)
BG065229	Ylpm1	YLP motif containing 1
BG085929	Zfp354a	Zinc finger protein 354A
BG067516	Zfp511	Zinc finger protein 511
BG067388	Zfp84	Zinc finger protein 84
AA409278	EST	
AW536084	EST	
AW536156	EST	
AW536190	EST	
AW536196	EST	
AW536421	EST	
AW536624	EST	
AW536769	EST	
AW536804	EST	
AW537378	EST	
AW537693	EST	
AW538179	EST	
AW538220	EST	
AW538990	EST	
AW539387	EST	
AW542384	EST	
AW543461	EST	

AW543498		EST
AW543520		EST
AW543642		EST
AW543644		EST
AW543755		EST
AW543815		EST
AW543851		EST
AW544006		EST
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AW544269		EST
AW544673		EST
AW545121		EST
AW545291		EST
AW545786		EST
AW552440		EST
AW554069		EST
AW557840		EST
AW559013		EST
BG063767		EST
BG063854		EST
BG063906		EST
BG063953		EST
BG064148		EST
BG064176		EST
BG064790		EST
BG064793		EST
BG064852		EST
BG065369		EST
BG066814		EST
BG066835		EST
BG067247		EST
BG067253		EST
BG067527		EST
BG067551		EST
BG067593		EST
BG067670		EST
BG069857		EST

BG074062		EST	
BG074304		EST	Transcribed locus
BG075402		EST	
BG076041		EST	
BG076673		EST	
BG077163		EST	
BG080332		EST	
BG080372		EST	
BG080511		EST	
BG080594		EST	
BG080616		EST	
BG083137		EST	
BG086994		EST	
BG088902		EST	
BI076464		EST	
BQ550258		EST	
C80376		EST	
C85780		EST	
BQ552232		EST	Membrane-associated ring finger (C3HC4) 6
AU041154		1110002N22Rik	RIKEN cDNA 1110002N22 gene
BG072391		1110005A03Rik	RIKEN cDNA 1110005A03 gene
C76309		1110012J17Rik	RIKEN cDNA 1110012J17 gene
AU043344		1110039B18Rik	RIKEN cDNA 1110039B18 gene
BQ551141		1110065H08Rik	RIKEN cDNA 1110065H08 gene
BG069904		1190005F20Rik	RIKEN cDNA 1190005F20 gene
BG082833		1500003O03Rik	RIKEN cDNA 1500003O03 gene
BQ552212		1500011J06Rik	RIKEN cDNA 1500011J06 gene
BG071572		1700036D21Rik	RIKEN cDNA 1700036D21 gene
BG074444		1700041C02Rik	RIKEN cDNA 1700041C02 gene
BQ550748		1700081L11Rik	RIKEN cDNA 1700081L11 gene
BG065840		1700095A21Rik	RIKEN cDNA 1700095A21 gene
BG071214		1810037I17Rik	RIKEN cDNA 1810037I17 gene
BG083629		2210010A19Rik	RIKEN cDNA 2210010A19 gene
BG066645		2410042D21Rik	RIKEN cDNA 2410042D21 gene
BG065728		2610018G03Rik	RIKEN cDNA 2610018G03 gene
BG066930		2610019A05Rik	RIKEN cDNA 2610019A05 gene
BG072382		2610203C20Rik	RIKEN cDNA 2610203C20 gene

BG065667		2700094F01Rik	RIKEN cDNA 2700094F01 gene
BG071462		2810006K23Rik	RIKEN cDNA 2810006K23 gene
BG073340		4921524J06Rik	RIKEN cDNA 4921524J06 gene
BG088239		4930518F03Rik	RIKEN cDNA 4930518F03 gene
BG070762		4930589O11Rik	RIKEN cDNA 4930589O11 gene
BG068366		4932414N04Rik	RIKEN cDNA 4932414N04 gene
BG071567		4933400E14Rik	RIKEN cDNA 4933400E14 gene
BG070659		5133401H06Rik	RIKEN cDNA 5133401H06 gene
BG070437		5730406M06Rik	RIKEN cDNA 5730406M06 gene
BG071335		5730469M10Rik	RIKEN cDNA 5730469M10 gene
BG069515		5830428H23Rik	RIKEN cDNA 5830428H23 gene
AU041536		6330514A18Rik	RIKEN cDNA 6330514A18 gene
BQ550664		8030451K01Rik	RIKEN cDNA 8030451K01 gene
BQ550756		8430426H19Rik	RIKEN cDNA 8430426H19 gene
BQ551609		9130020K20Rik	RIKEN cDNA 9130020K20 gene
BG066056		9130404D08Rik	RIKEN cDNA 9130404D08 gene
BG066119		A130030D10Rik	RIKEN cDNA A130030D10 gene
BQ550649		A530080P10	Hypothetical protein A530080P10
AU042892		Abcb5	ATP-binding cassette, sub-family B (MDR/TAP), member 5
BQ551854		Abi2	Abl-interactor 2
BG072128		Abi1	V-abl Abelson murine leukemia oncogene 1
BG069602		Acaa2	Acetyl-Coenzyme A acyltransferase 2
BG072306		Acaca	Acetyl-Coenzyme A carboxylase alpha
BG073745		Acbd3	Acyl-Coenzyme A binding domain containing 3
BQ550460		Acot8	Acyl-CoA thioesterase 8
BQ551244		Adamts10	A disintegrin-like and metallopeptidase
BG065926		Adnp	Activity-dependent neuroprotective protein
BG071168		Aftph	Aftphilin
BG079132		AgI	Amylo-1,6-glucosidase, 4-alpha-glucanotransferase
BG075166		AK122209	CDNA sequence AK122209
BG066705		Ak3l1	Adenylate kinase 3 alpha-like 1
BG065924		Akap2	A kinase (PRKA) anchor protein 2
C80443		Akap7	A kinase (PRKA) anchor protein 7
BG086574		AL033314	Expressed sequence AL033314
BG070055		Alg13	Asparagine-linked glycosylation 13 homolog (<i>S. cerevisiae</i>)
BG072388		Ap2b1	Adaptor-related protein complex 2, beta 1 subunit
BG073077		Aplp2	Amyloid beta (A4) precursor-like protein 2

C76493		App	Amyloid beta (A4) precursor protein
AU016873		Araf	V-raf murine sarcoma 3611 viral oncogene homolog
BQ550413		Arfgap1	ADP-ribosylation factor GTPase activating protein 1
BG087019		Arhgap29	Rho GTPase activating protein 29
BG083351		Arhgap6	Rho GTPase activating protein 6
BG066446		Arih2	Ariadne homolog 2 (Drosophila)
BG074583		Atp5g1	ATP synthase, mitochondrial F0 complex, subunit c, isoform 1
BG073220		Atp5s	ATP synthase, mitochondrial F0 complex, subunit s
BG070482		AU016126	Expressed sequence AU016126
BG068075		AU021880	Expressed sequence AU021880
BG068186		AU022252	Expressed sequence AU022252
BG068769		AU023762	Expressed sequence AU023762
BG068814		AU023871	Expressed sequence AU023871
BG072095		AU041480	Expressed sequence AU041480
BG070516		Auh	AU RNA binding protein/enoyl-coenzyme A hydratase
BG081746		Azin1	Antizyme inhibitor 1
BQ550662		B3gnt7	betaGal beta-1,3-N-acetylglucosaminyltransferase 7
BG072468		Banp	Btg3 associated nuclear protein
BG083476		BC003331	CDNA sequence BC003331
BG069471		BC008163	CDNA sequence BC008163
BG072112		BC013491	CDNA sequence BC013491
BG065913		BC021395	CDNA sequence BC021395
BG065910		BC026657	CDNA sequence BC026657
BG075706		BC032203	CDNA sequence BC032203
BG065711		BC033606	CDNA sequence BC033606
BG066764		BC033915	CDNA sequence BC033915
BQ552459		BC039210	CDNA sequence BC039210
BQ551351		BC055324	CDNA sequence BC055324
BQ552265		Bckdk	Branched chain ketoacid dehydrogenase kinase
BQ550263		Bcl7c	B-cell CLL/lymphoma 7C
BQ551022		Bicc1	Bicaudal C homolog 1 (Drosophila)
BG065601		Birc1c	Baculoviral IAP repeat-containing 1c
BG073154		Bnipl	BCL2/adenovirus E1B 19kD interacting protein like
BG063789		Bpnt1	Bisphosphate 3'-nucleotidase 1
BG065082		Brd3	Bromodomain containing 3
BG069361		Brp16	Brain protein 16
BQ550885		Btaf1	BTAFA1 RNA polymerase II B-TFIID transcription factor

BG074705	Btbd7	BTB (POZ) domain containing 7
BG071345	C030002B11Rik	RIKEN cDNA C030002B11 gene
BG071808	C1rl	Complement component 1, r subcomponent-like
BQ550332	C330019G07Rik	RIKEN cDNA C330019G07 gene
BG070384	C330024D21Rik	RIKEN cDNA C330024D21 gene
BG084836	Cacna1d	Calcium channel, voltage-dependent, L type, alpha 1D subunit
BQ551014	Cast	Calpastatin
BG071322	Cbr2	Carbonyl reductase 2
BG072084	Cc2d1b	Coiled-coil and C2 domain containing 1B
BQ550730	Ccdc36	Coiled-coil domain containing 36
BG072484	Ccdc78	Coiled-coil domain containing 78
BG083664	Ccn1	Cyclin L1
BG072445	Cct7	Chaperonin subunit 7 (eta)
BG075695	Cd151	CD151 antigen
BG073086	Cd2ap	CD2-associated protein
BG079263	Cdc25c	Cell division cycle 25 homolog C (<i>S. cerevisiae</i>)
BQ551777	Cdc2l6	Cell division cycle 2-like 6 (CDK8-like)
BG065644	Cdc5l	Cell division cycle 5-like (<i>S. pombe</i>)
BG072467	Cdh1	Cadherin 1
BQ551701	Cdh23	Cadherin 23 (otocadherin)
BQ550373	Cdh5	Cadherin 5
BQ550518	Cdk2ap1	CDK2 (cyclin-dependent kinase 2)-associated protein 1
BG071313	Cdkn1c	Cyclin-dependent kinase inhibitor 1C (P57)
BG072056	Cenpa	Centromere protein A
BG072415	Cggbp1	CGG triplet repeat binding protein 1
BG084134	Chst10	Carbohydrate sulfotransferase 10
BQ550738	Ckap2	Cytoskeleton associated protein 2
BQ552736	Clcn6	Chloride channel 6
BQ551100	Cldn4	Claudin 4
BG072331	Clstn1	Calsyntenin 1
BG072323	Cnn3	Calponin 3, acidic
BG085488	Cog8	Component of oligomeric golgi complex 8
BQ552453	Cox5a	Cytochrome c oxidase, subunit Va
BG066603	Crtap	Cartilage associated protein
BG075303	Cryz1	Crystallin, zeta (quinone reductase)-like 1
BG073943	Csnk1g1	Casein kinase 1, gamma 1
BG071686	Cst12	Cystatin 12

BG066669		Ctnna1	Catenin (cadherin associated protein), alpha 1
BG075323		Ctps2	Cytidine 5'-triphosphate synthase 2
BG065899		Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog
BQ550937		Cyld	Cylindromatosis (turban tumor syndrome)
BG071067		Cyp11a1	Cytochrome P450, family 11, subfamily a, polypeptide 1
BG066539		Cyp2s1	Cytochrome P450, family 2, subfamily s, polypeptide 1
BG065713		D17Ertd29e	DNA segment, Chr 17, ERATO Doi 29, expressed
BQ550039		D17Wsu92e	DNA segment, Chr 17, Wayne State University 92, expressed
BG084796		D6Wsu176e	DNA segment, Chr 6, Wayne State University 176, expressed
BG068420		D8Ertd457e	DNA segment, Chr 8, ERATO Doi 457, expressed
BG071093		D930036F22Rik	RIKEN cDNA D930036F22 gene
BQ551641		Ddx18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18
BG066896		Depdc6	DEP domain containing 6
BG064252		Dhx57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57
BG065647		Dicer1	Dicer1, Dcr-1 homolog (Drosophila)
BQ552530		Dlgh1	Discs, large homolog 1 (Drosophila)
BG079743		Dnajc7	DnaJ (Hsp40) homolog, subfamily C, member 7
BG066942		Dnmt3b	DNA methyltransferase 3B
BG084050		Dnmt3l	DNA (cytosine-5-)-methyltransferase 3-like
BG070734		Dock1	Dedicator of cyto-kinesis 1
BG085288		Dscr6	Down syndrome critical region homolog 6 (human)
BG066580		Dsg2	Desmoglein 2
BQ550597		Dub2a	Deubiquitinating enzyme 2a
BQ551160		Dusp11	Dual specificity phosphatase 11
BG071403		E030031F02Rik	RIKEN cDNA E030031F02 gene
BG069593		E030046B03Rik	RIKEN cDNA E030046B03 gene
BG065372		E130013N09Rik	RIKEN cDNA E130013N09 gene
BG065803		E230006M18Rik	RIKEN cDNA E230006M18 gene
BG072004		EG547109	Predicted gene, EG547109
BG071349		EG666469	Predicted gene, EG666469
BG079113		Eif4enif1	Eukaryotic translation initiation factor 4E nuclear import factor 1
BQ550267		Ep400	E1A binding protein p400
BG069356		Epb4.115	Erythrocyte protein band 4.1-like 5
BG069525		Ercc4	Excision repair cross-complementing complementation group 4
BG071861		Esp1	Extra spindle poles-like 1 (S. cerevisiae)
BQ551349		Etaa1	Ewing's tumor-associated antigen 1
BG083466		Etfdh	Electron transferring flavoprotein, dehydrogenase

BG065915		Etv6	Ets variant gene 6 (TEL oncogene)
BG074661		Extl2	Exotoses (multiple)-like 2
BG072083		Fancg	Fanconi anemia, complementation group G
BG072115		Fbxo10	F-box protein 10
BG084874		Fbxo3	F-box protein 3
BQ551776		Fbxo30	F-box protein 30
BQ551246		Fbxw11	F-box and WD-40 domain protein 11
BG068843		Fchsd2	FCH and double SH3 domains 2
BQ551773		Fer1l3	Fer-1-like 3, myoferlin (C. elegans)
BG075786		Fgd1	FYVE, RhoGEF and PH domain containing 1
BG086904		Fis1	Fission 1 (mitochondrial outer membrane) homolog (yeast)
BG070773		Fkbp1a	FK506 binding protein 1a
BG078930		Fkbp4	FK506 binding protein 4
BG072325		Fnbp1	Formin binding protein 1
BG073778		Fndc3a	Fibronectin type III domain containing 3a
BG071167		Fndc7	Fibronectin type III domain containing 7
BG068663		Foxn2	Forkhead box N2
BQ551359		Fras1	Fraser syndrome 1 homolog (human)
BG084806		Fxyd4	FXYD domain-containing ion transport regulator 4
BG071490		Fzd3	Frizzled homolog 3 (Drosophila)
BG066634		Galnt4	UDP-N-acetyl-alpha-D-galactosamine
BG072044		Garnl1	GTPase activating RANGAP domain-like 1
BQ550593		Gbp2	Guanylate nucleotide binding protein 2
BG065591		Ggnbp2	Gametogenetin binding protein 2
BG066451		Ggps1	Geranylgeranyl diphosphate synthase 1
BG074610		Glb1	Galactosidase, beta 1
BG071936		Gm1305	Gene model 1305, (NCBI)
BG072058		Gm97	Gene model 97, (NCBI)
BG071872		Gnpat	Glyceronephosphate O-acyltransferase
BG066912		Gnpnat1	Glucosamine-phosphate N-acetyltransferase 1
BG079035		Gosr2	Golgi SNAP receptor complex member 2
BG065592		Grhl2	Grainyhead-like 2 (Drosophila)
BG072298		Gripap1	GRIP1 associated protein 1
BG066009		Gtf3c2	General transcription factor IIIC, polypeptide 2, beta
BG082217		Gzmm	Granzyme M (lymphocyte met-ase 1)
BG066251		Hat1	Histone aminotransferase 1
BG079049		Heatr2	HEAT repeat containing 2

BG065732		Hel308	Helicase, mus308-like (Drosophila)
BG075724		Hipk2	Homeodomain interacting protein kinase 2
BQ550683		Hmbs	Hydroxymethylbilane synthase
BG071011		Hmgb211	High mobility group box 2-like 1
BG084145		Hps4	Hermansky-Pudlak syndrome 4 homolog (human)
BQ551782		Hyal1	Hyaluronoglucosaminidase 1
BQ551924		Igf1r	Insulin-like growth factor I receptor
BG068536		Igfbp7	Insulin-like growth factor binding protein 7
BG084192		Ik	IK cytokine
BG067905		Il17f	Interleukin 17F
BG074597		Inoc1	INO80 complex homolog 1 (S. cerevisiae)
BG088202		Isgf3g	Interferon dependent positive acting transcription factor 3 gamma
BG071191		Itga11	Integrin, alpha 11
BG077912		Itga5	Integrin alpha 5 (fibronectin receptor alpha)
BG070896		Jam2	Junction adhesion molecule 2
BG088542		Jarid1a	Jumonji, AT rich interactive domain 1A (Rbp2 like)
BG085297		Jarid1b	Jumonji, AT rich interactive domain 1B (Rbp2 like)
BG070185		Jmjd1c	Jumonji domain containing 1C
BG070100		Jmjd2b	Jumonji domain containing 2B
BG066513		Kbtbd2	Kelch repeat and BTB (POZ) domain containing 2
BG069378		Kcnh3	Potassium voltage-gated channel, subfamily H, member 3
BG069589		Kcnk6	Potassium inwardly-rectifying channel, subfamily K, member 6
BG073351		Kdelc2	KDEL (Lys-Asp-Glu-Leu) containing 2
C77408		Krt8	Keratin 8
C79740		Lace1	Lactation elevated 1
BQ550742		Lamc1	Laminin, gamma 1
BQ550722		Las1l	LAS1-like (S. cerevisiae)
BQ551582		Lass6	Longevity assurance homolog 6 (S. cerevisiae)
BQ550734		Lcor	Ligand dependent nuclear receptor corepressor
C78577		Lct	Lactase
BG073494		Leprel2	Leprecan-like 2
BG078898		Lgtn	Ligatin
C76424		Lhfp12	Lipoma HMGIC fusion partner-like 2
BG071348		LOC435727	Similar to SET translocation (predicted)
BG083465		LOC667666	Similar to reduced expression 2
BQ551390		LOC668621	Similar to gonadotropin inducible ovarian transcription factor 1
BG079713		Lpin2	Lipin 2

BG075194		Lrba	LPS-responsive beige-like anchor
BG071205		Lrig1	Leucine-rich repeats and immunoglobulin-like domains 1
BG071400		Lrrc8c	Leucine rich repeat containing 8 family, member C
BG067748		Lrrc8e	Leucine rich repeat containing 8 family, member E
AU017683		Ltbr	Lymphotoxin B receptor
BG065699		Luzp1	Leucine zipper protein 1
BG077319		Lzts2	Leucine zipper, putative tumor suppressor 2
BG065891		Magi2	Membrane associated guanylate kinase
BG070588		Map1lc3b	Microtubule-associated protein 1 light chain 3 beta
AU041989		Map4k5	Mitogen-activated protein kinase kinase kinase 5
BG072107		Mbnl2	Muscleblind-like 2
BG082854		Mesp2	Mesoderm posterior 2
BG070512		Mettl9	Methyltransferase like 9
BG065902		Mfhas1	Malignant fibrous histiocytoma amplified sequence 1
BG074486		MGC107415	Hypothetical protein LOC383216
BG070800		Mlstd2	Male sterility domain containing 2
BG075512		Mme	Membrane metallo endopeptidase
BQ551130		Mnab	Membrane associated DNA binding protein
BG078615		Mns1	Meiosis-specific nuclear structural protein 1
BQ551184		Morf4l1	Mortality factor 4 like 1
BG085631		Mrpl27	Mitochondrial ribosomal protein L27
BG066667		Mtap4	Microtubule-associated protein 4
C77431		Mterfd2	MTERF domain containing 2
BG071118		Mtg1	Mitochondrial GTPase 1 homolog (<i>S. cerevisiae</i>)
BG074650		Mtmr12	Vmyotubularin related protein 12
BG083487		Mtmr2	Myotubularin related protein 2
BG085713		Mtmr9	Myotubularin related protein 9
BG082228		Mybl2	Myeloblastosis oncogene-like 2
C76805		Myl4	Myosin, light polypeptide 4
BG072239		Mylk	Myosin, light polypeptide kinase
BG066671		Myo1d	Myosin ID
BQ552055		Myo9b	Myosin IXb
BG071204		Mysm1	Myb-like, SWIRM and MPN domains 1
BG079815		Naalad2	N-acetylated alpha-linked acidic dipeptidase 2
BG066401		Nbn	Nibrin
BQ551032		Ndor1	NADPH dependent diflavin oxidoreductase 1
BG065776		Nek1	NIMA (never in mitosis gene a)-related expressed kinase 1

BG071104		Nek8	NIMA (never in mitosis gene a)-related expressed kinase 8
BG083317		Net1	Neuroepithelial cell transforming gene 1
BG071222		Nhlrc2	NHL repeat containing 2
BG071236		Nipbl	Nipped-B homolog (Drosophila)
BG087125		Nr0b2	Nuclear receptor subfamily 0, group B, member 2
BG072053		Nr2e1	Nuclear receptor subfamily 2, group E, member 1
BG083489		Nrg4	Neuregulin 4
BG072413		Nrp	Neural regeneration protein
BQ550752		Nucks1	Nuclear casein kinase and cyclin-dependent kinase substrate 1
BQ550616		Nudcd2	NudC domain containing 2
BG070110		Nudt21	Nudix (nucleoside diphosphate linked moiety X)-type motif 21
AU042946		Nup214	Nucleoporin 214
BG070986		Oaz2	Ornithine decarboxylase antizyme 2
BQ551151		Odz4	Odd Oz/ten-m homolog 4 (Drosophila)
AU014844		Ogdh	Oxoglutarate dehydrogenase (lipoamide)
BG068751		Olfr75-ps1	Olfactory receptor 75, pseudogene 1
BG079929		Orc2l	Origin recognition complex, subunit 2-like (S. cerevisiae)
BG071973		Osbp2	Oxysterol binding protein 2
BG069555		Osbp18	Oxysterol binding protein-like 8
BG074515		Pacs1	Phosphofurin acidic cluster sorting protein 1
BQ550334		Pafah1b2	Platelet-activating factor acetylhydrolase, alpha2 subunit
BG075672		Papola	Poly (A) polymerase alpha
BG075119		Papog	Poly(A) polymerase gamma
BG071589		Parl	Presenilin associated, rhomboid-like
BQ551164		Pask	PAS domain containing serine/threonine kinase
BG073605		Pawr	PRKC, apoptosis, WT1, regulator
BG066651		Pcca	Propionyl-Coenzyme A carboxylase, alpha polypeptide
BQ552727		Pcgf3	Polycomb group ring finger 3
BG082619		Pcnt	Pericentrin (kendrin)
BG069544		Pde3a	Phosphodiesterase 3A, cGMP inhibited
BG084383		Pde6d	Phosphodiesterase 6D, cGMP-specific, rod, delta
BG070255		Pde7a	Phosphodiesterase 7A
BG071525		Pdzd2	PDZ domain containing 2
BG083442		Pex19	Peroxisome biogenesis factor 19
BG078897		Phf12	PHD finger protein 12
BG072257		Phf20	PHD finger protein 20
BG068715		Phf21a	PHD finger protein 21A

BG066086		Phf3	PHD finger protein 3
BQ552300		Pip5k3	Phosphatidylinositol-3-phosphate, type III
BG075777		Pkp2	Plakophilin 2
BQ552256		Plagl2	Pleiomorphic adenoma gene-like 2
BQ551306		Plce1	Phospholipase C, epsilon 1
BG072459		Pldn	Pallidin
BQ550711		Plekha1	Pleckstrin homology domain containing, family A member 1
BG078885		Plk4	Polo-like kinase 4 (Drosophila)
BG066713		Plip	Plasma membrane proteolipid
BG071360		Pofut1	Protein O-fucosyltransferase 1
BQ550997		Poldip3	Polymerase (DNA-directed), delta interacting protein 3
BG085159		Polr1e	Polymerase (RNA) I polypeptide E
BG074143		Polr3gl	Polymerase (RNA) III (DNA directed) polypeptide G like
BG072347		Polr3h	Polymerase (RNA) III (DNA directed) polypeptide H
BG083644		Por	P450 (cytochrome) oxidoreductase
BG066638		Pou6f1	POU domain, class 6, transcription factor 1
BG069643		Ppp1cc	Protein phosphatase 1, catalytic subunit, gamma isoform
BG074077		Ppp1r12b	Protein phosphatase 1, regulatory (inhibitor) subunit 12B
BQ550137		Ppp1r7	Protein phosphatase 1, regulatory (inhibitor) subunit 7
BG066099		Ppp2ca	Protein phosphatase 2, catalytic subunit, alpha isoform
BQ551412		Ppp2r5a	Protein phosphatase 2 regulatory subunit B (B56) alpha isoform
BG065790		Ppp2r5e	Protein phosphatase 2 regulatory subunit B (B56) epsilon
BG081448		Ppp3cb	Protein phosphatase 3, catalytic subunit, beta isoform
BG074626		Prkg1	Protein kinase, cGMP-dependent, type I
C76498		Prr8	Proline rich 8
BG069898		Psm11	Proteasome (prosome, macropain) 26S subunit non-ATPase, 11
BG072681		Ptges3	Prostaglandin E synthase 3 (cytosolic)
BG076324		Ptpn18	Protein tyrosine phosphatase, non-receptor type 18
BQ552544		Ptpn2	Protein tyrosine phosphatase, non-receptor type 2
BG071033		Ptprg	Protein tyrosine phosphatase, receptor type, G
BG072031		Pts	6-pyruvoyl-tetrahydropterin synthase
BG083621		Pvrl3	Poliiovirus receptor-related 3
BQ551650		Rab10	RAB10, member RAS oncogene family
AU042813		Racgap1	Rac GTPase-activating protein 1
BG074447		Rapgef1	Rap guanine nucleotide exchange factor (GEF) 1
BG084341		Rarsl	Arginyl-tRNA synthetase-like
BG084218		Rbbp9	Retinoblastoma binding protein 9

BG079627		Rbm34	RNA binding motif protein 34
BG069654		Reep5	Receptor accessory protein 5
BG071937		Rex2	Reduced expression 2
BG066639		Rhoa	Ras homolog gene family, member A
AU041357		Rhod	Ras homolog gene family, member D
BG069563		Rhoh	Ras homolog gene family, member H
BG071220		Rnf19	Ring finger protein (C3HC4 type) 19
BG073529		Rnh1	Ribonuclease/angiogenin inhibitor 1
BG078875		Rogdi	Rogdi homolog (Drosophila)
BG079971		Rpgrip1	Retinitis pigmentosa GTPase regulator interacting protein 1
BG079511		Rpl3	Ribosomal protein L3
BG071958		Rpl711	Ribosomal protein L7-like 1
BG072722		Rps6ka3	Ribosomal protein S6 kinase polypeptide 3
BG066225		Rreb1	Ras responsive element binding protein 1
BQ552268		S100pbp	S100P binding protein
BG073400		Sap18	Sin3-associated polypeptide 18
BQ550640		Sap30l	SAP30-like
BQ550634		Scn3a	Sodium channel, voltage-gated, type III, alpha
BQ552261		Sec14l1	SEC14-like 1 (S. cerevisiae)
BG079877		Sfrs11	Splicing factor, arginine/serine-rich 11
BG083967		Sfxn1	Sideroflexin 1
BG066686		Sfxn2	Sideroflexin 2
BG075471		Sirpa	Signal-regulatory protein alpha
BG084160		Slc11a2	Solute carrier family 11 member 2
BG073944		Slc24a3	Solute carrier family 24 member 3
BG079299		Slc25a1	Solute carrier family 25 member 1
BQ551136		Slc9a3r1	Solute carrier family 9 isoform 3 regulator 1
BG069963		Slco4c1	Solute carrier organic anion transporter family, member 4C1
BQ552710		Smc6	Structural maintenance of chromosomes 6
BG083050		Snap23	Synaptosomal-associated protein 23
BG070178		Snrpc	U1 small nuclear ribonucleoprotein C
BG065775		Son	Son cell proliferation protein
BG065712		Spag9	Sperm associated antigen 9
BG066112		Spata5	Spermatogenesis associated 5
BQ550417		Srgap2	SLIT-ROBO Rho GTPase activating protein 2
BG068698		Srp54	Signal recognition particle 54
BG071533		Srpk2	Serine/arginine-rich protein specific kinase 2

BG071865		Srrm1	Serine/arginine repetitive matrix 1
BG084144		Stag1	Stromal antigen 1
BG065895		Stard13	Serologically defined colon cancer antigen 13
BG071347		Stard3nl	STARD3 N-terminal like
BQ550188		Stk16	Serine/threonine kinase 16
BG074672		Strbp	Spermatid perinuclear RNA binding protein
BG075183		Stx6	Syntaxin 6
BQ552294		Stxbp6	Syntaxin binding protein 6 (amisyn)
BG073342		Suhw4	Suppressor of hairy wing homolog 4 (Drosophila)
BG084153		Suox	Sulfite oxidase
BG069533		Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila)
BQ552500		Synj1	Synaptojanin 1
BG070708		Sytl4	Synaptotagmin-like 4
BG068551		Tbl1x	Transducin (beta)-like 1 X-linked
BG065608		Tbl2	Transducin (beta)-like 2
BG064989		Tcta	T-cell leukemia translocation altered gene
BQ552542		Tgoln1	Trans-golgi network protein
BG075651		Thrap3	Thyroid hormone receptor associated protein 3
BG063428		Tirap	Toll-interleukin 1 receptor domain-containing adaptor protein
BQ552553		Tmem132d	Transmembrane protein 132D
BG066503		Tmem23	Transmembrane protein 23
BG079319		Tmem38b	Transmembrane protein 38B
BG086435		Tmem4	Transmembrane protein 4
BG067938		Tmem50a	Transmembrane protein 50A
BG069517		Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12
BQ551158		Tnks	Tankyrase TRF1-interacting ADP-ribose polymerase
BG066559		Tnks1bp1	Tankyrase 1 binding protein 1
BQ551138		Tnks2	Tankyrase, TRF1-interacting ADP-ribose polymerase 2
BG075686		Tnpo2	Transportin 2 (importin 3, karyopherin beta 2b)
BQ550176		Top1	Topoisomerase (DNA) I
BG062981		Tprkb	Tp53rk binding protein
BG071346		Trim34	Tripartite motif protein 34
BG082843		Trrap	Transformation/transcription domain-associated protein
BG084103		Tsc22d1	TSC22 domain family, member 1
BQ551987		Ttll4	Tubulin tyrosine ligase-like family, member 4
BG066560		Tubgcp5	Tubulin, gamma complex associated protein 5
BG079504		Tug1	Taurine upregulated gene 1

BG071302		Tulp3	Tubby-like protein 3
BG071871		Txndc10	Thioredoxin domain containing 10
BG078134		Ube2c	Ubiquitin-conjugating enzyme E2C
BQ550339		Ube3a	Ubiquitin protein ligase E3A
BG072375		Ubx d8	UBX domain containing 8
BG083915		Uck2	Uridine-cytidine kinase 2
BQ552073		Ufd1l	Ubiquitin fusion degradation 1 like
BQ551972		Umps	Uridine monophosphate synthetase
BG069366		Upf2	UPF2 regulator of nonsense transcripts homolog (yeast)
BQ551761		Upf3b	UPF3 regulator of nonsense transcripts homolog B (yeast)
BG074667		Utrn	Utrophin
BG065982		Vav2	Vav2 oncogene
BG065616		Vcp	Valosin containing protein
BG079187		Vnn1	Vanin 1
BQ552115		Wdr81	WD repeat domain 81
BQ551117		Wee1	Wee 1 homolog (S. pombe)
BG065802		Wipf1	WAS/WASL interacting protein family, member 1
AU041408		Wnk1	WNK lysine deficient protein kinase 1
BG079111		Wnt3a	Wingless-related MMTV integration site 3A
BG072447		Wnt5b	Wingless-related MMTV integration site 5B
BG072532		Wwc1	WW, C2 and coiled-coil domain containing 1
BG071334		Wwtr1	WW domain containing transcription regulator 1
BG079790		Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
BG070812		Xrcc6bp1	XRCC6 binding protein 1
BQ551652		Zc3h7a	Zinc finger CCCH type containing 7 A
BG079167		Zfp42	Zinc finger protein 42
BG068749		Zfp53	Zinc finger protein 53
BG073125		Zfp617	Zinc finger protein 617
AU046252		Zfp69	Zinc finger protein 69
BG065890		Zfp710	Zinc finger protein 710
BG078447		Zfp809	Zinc finger protein 809
BG070672		Zfp9	Zinc finger protein 9
BG076048		Zfpm2	Zinc finger protein, multitype 2
BQ551737		Zmiz1	Zinc finger, MIZ-type containing 1
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Transcribed locus

Transcribed locus

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Transcribed locus

Transcribed locus

weakly similar to XP_912058.1 hypothetical protein XP_906965
Transcribed locus

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Transcribed locus

Transcribed locus

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Transcribed locus

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Transcribed locus

Transcribed locus
Transcribed locus

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C78061		EST	
C79547		EST	
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C78984		EST	
BG076208		3300001P08Rik	RIKEN cDNA 3300001P08 gene
BG077589		4930548G07Rik	RIKEN cDNA 4930548G07 gene
BG063937		Alad	Aminolevulinate, delta-, dehydratase
C85923		Alms1	Alstrom syndrome 1 homolog (human)
BG077976		Arcp4	Actin related protein 2/3 complex, subunit 4
C86170		Atf2	Activating transcription factor 2
BG078216		BC003940	CDNA sequence BC003940
BG069214		Birc3	Baculoviral IAP repeat-containing 3
BG068767		Bola1	BolA-like 1 (E. coli)
C78859		C78859	Expressed sequence C78859
BG067002		Ccnt2	Cyclin T2
BG067091		Ccpg1	Cell cycle progression 1
AA408840		Cflar	CASP8 and FADD-like apoptosis regulator
BG063927		Clic4	Chloride intracellular channel 4 (mitochondrial)
BG065253		Cyfp1	Cytoplasmic FMR1 interacting protein 1
BG063067		Dido1	Death inducer-obliterator 1
BG066589		Dmd	Dystrophin, muscular dystrophy
AW545189		Grin1a	Glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A
BG066979		Grtp1	GH regulated TBC protein 1

BG087780		Gstm1	Glutathione S-transferase, mu 1
BG077262		Imp4	IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast)
BG078581		Ints3	Integrator complex subunit 3
BG088728		Strap	Serine/threonine kinase receptor associated protein
BG067035		Ttl6	Tubulin tyrosine ligase-like family, member 6
BG065643		Tufm	Tu translation elongation factor, mitochondrial
BG079801		Ube2l3	Ubiquitin-conjugating enzyme E2L 3
BG088727		Vil2	Villin 2
BG077263		Wdr55	WD repeat domain 55
BG068052		zfp507	Zinc finger protein 507
BG064571		Zfp91	Zinc finger protein 91
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BG065666		EST	
BG066960		EST	
BG068051		EST	
BG080067		EST	
C85922		EST	
BG064582		Lrrc16	Leucine rich repeat containing 16
BG066313		Mapkbp1	Mitogen activated protein kinase binding protein 1
BG064572		Mrpl28	Mitochondrial ribosomal protein L28
BG085939		Ncaph	Non-SMC condensin I complex, subunit H
BG076983		Necap2	NECAP endocytosis associated 2
BG064599		Pappa	Pregnancy-associated plasma protein A
BG076198		Pb1	Polybromo 1
BG080463		Pcnp	PEST proteolytic signal containing nuclear protein
BG064247		Pcd2l	Programmed cell death 2-like
BG065306		Perp	PERP, TP53 apoptosis effector
BG068755		Phr1	Pam, highwire, rpm 1
BG067355		Poll	Polymerase (DNA directed), lambda
BG080402		Prpsap1	Phosphoribosyl pyrophosphate synthetase-associated protein 1
BG064542		Psm1	Proteasome (prosome, macropain) subunit, beta type 1
BG066969		R3hdm1	R3H domain 1 (binds single-stranded nucleic acids)
BG063048		Rbm9	RNA binding motif protein 9
BG080059		Senp6	SUMO/sentrin specific peptidase 6
BG067375		Serinc5	Serine incorporator 5
BG063058		Sf3a2	Splicing factor 3a, subunit 2
BG082362		Sfrs2	Splicing factor, arginine/serine-rich 2 (SC-35)

BG079545		Slc15a2	Solute carrier family 15 (H ⁺ /peptide transporter), member 2
BG067025		Slc16a1	Solute carrier family 16 member 1
BG077242		Slc35a1	Solute carrier family 35 (CMP-sialic acid transporter), member 1
BG066811		Ccdc96	Coiled-coil domain containing 96
BG066114		Dusp13	Dual specificity phosphatase 13
BG079012		Hnrpa1	Heterogeneous nuclear ribonucleoprotein A1
BG065813		LOC627905	Similar to gonadotropin inducible ovarian transcription factor 1
BG068602		Lrp12	Low density lipoprotein-related protein 12
BG069488		Tbx20	T-box 20
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BG063668		EST	
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BG069550		EST	Transcribed locus
BG064719		Ankrd32	Ankyrin repeat domain 32
BG069406		AU018829	Expressed sequence AU018829
BG063312		Bat3	HLA-B-associated transcript 3
AW552725		Cdk5rap3	CDK5 regulatory subunit associated protein 3
BG067933		Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BG081063		Cybb	Cytochrome b-245, beta polypeptide
BG067879		D330050I23Rik	RIKEN cDNA D330050I23 gene
BG067844		Dscam1	Down syndrome cell adhesion molecule-like 1
BG066542		E430002G05Rik	RIKEN cDNA E430002G05 gene
BG078947		Elovl6	ELOVL family member 6, elongation of long chain fatty acids
BG067709		Mll3	Myeloid/lymphoid or mixed-lineage leukemia 3
BG074155		Mrpl36	Mitochondrial ribosomal protein L36
BG077130		Mrpl48	Mitochondrial ribosomal protein L48
BG078939		Nt5dc1	5'-nucleotidase domain containing 1
BG072848		Pigc	Phosphatidylinositol glycan anchor biosynthesis, class C
BG067944		Plac1	Placenta-specific 1-like
BG067921		Psme2	Proteasome (prosome, macropain) 28 subunit, beta
BG067867		Ptpn14	Protein tyrosine phosphatase, non-receptor type 14
BG068408		Rnf141	Ring finger protein 141
BG087018		Rpl37	Ribosomal protein L37
BG080015		Rpl37a	Ribosomal protein L37a
BG081064		Secisbp2	SECIS binding protein 2

BG068027		Slc2a13	Solute carrier family 2 member 13
BG067985		Spred1	Sprouty protein with EVH-1 domain 1, related sequence
AU040617		Ss18	Synovial sarcoma translocation, Chromosome 18
BG071664		Stk24	Serine/threonine kinase 24 (STE20 homolog, yeast)
BG067974		Thsd7b	Thrombospondin, type I, domain containing 7B
BG066733		EST	
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BG068015		EST	
BG070814		EST	
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C88049		EST	
BG069380		Them4	Thioesterase superfamily member 4
AW545825		EST	
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AW554394		0610012D17Rik	RIKEN cDNA 0610012D17 gene
BG076564		1110002B05Rik	RIKEN cDNA 1110002B05 gene
BG071239		1300007C21Rik	RIKEN cDNA 1300007C21 gene
BG064173		2310028O11Rik	RIKEN cDNA 2310028O11 gene
BG064581		4921506J03Rik	RIKEN cDNA 4921506J03 gene
AA410046		4921517N04Rik	RIKEN cDNA 4921517N04 gene
AU040419		4933439F18Rik	RIKEN cDNA 4933439F18 gene
BG068979		9330102E08Rik	RIKEN cDNA 9330102E08 gene
BG062932		9930021J03Rik	RIKEN cDNA 9930021J03 gene
BG063017		AA407452	EST AA407452
BG076953		AA536749	Expressed sequence AA536749
BG063679		Aasdhppt	Aasdhppt
BG077214		Abtb2	Ankyrin repeat and BTB (POZ) domain containing 2
BG062940		Actr2	ARP2 actin-related protein 2 homolog (yeast)
BG076941		Adi1	Acireductone dioxygenase 1
BG077184		AI413782	Expressed sequence AI413782
BG063039		AI428936	Expressed sequence AI428936
BG067100		Angel2	Angel homolog 2 (Drosophila)
BG077192		Ankrd50	Ankrin repeat domain 50
BG086890		Apbb2	Amyloid beta precursor protein-binding, family B, member 2
BG085960		Apoc2	Apolipoprotein C-II
BG071887		Arcn1	Archain 1

BG078211		Arl1	ADP-ribosylation factor-like 1
BG063043		B230333C21Rik	RIKEN cDNA B230333C21 gene
BG078494		Bap1	Brca1 associated protein 1
BG085997		BC020002	CDNA sequence BC020002
BG072161		BC038167	CDNA sequence BC038167
BG067918		Btg2	B-cell translocation gene 2, anti-proliferative
BG067220		Btg4	B-cell translocation gene 4
BG070072		C130038G02Rik	RIKEN cDNA C130038G02 gene
BG062931		C1qbp	Complement component 1, q subcomponent binding protein
BG063740		Canx	Calnexin
BG072550		Carhsp1	Calcium regulated heat stable protein 1
BG077060		Carm1	Coactivator-associated arginine methyltransferase 1
BG086830		Cbara1	Calcium binding atopy-related autoantigen 1
BG078093		Cbx3	Chromobox homolog 3 (Drosophila HP1 gamma)
BG071910		Ccdc115	Coiled-coil domain containing 115
BG076416		Ccdc99	Coiled-coil domain containing 99
BG077089		Ccnf	Cyclin F
BG077073		Ccnh	Cyclin H
BG063851		Cdc9111	CDC91 cell division cycle 91-like 1 (S. cerevisiae)
C85897		Cdca2	Cell division cycle associated 2
AA409659		Cdcp1	CUB domain containing protein 1
BG076465		Cdk7	Cyclin-dependent kinase 7
BG063027		Cited2	Cbp/p300-interacting transactivator
BG083522		Cks2	CDC28 protein kinase regulatory subunit 2
BG080435		Cog2	Component of oligomeric golgi complex 2
AW538671		Col5a3	Procollagen, type V, alpha 3
BG076807		Comm9	COMM domain containing 9
BG066881		Cryz	Crystallin, zeta
BG078926		Cst3	Cystatin C
BG067675		Ctf2	Cardiotrophin 2
BG087382		Ctsd	Cathepsin D
BG068969		D030074E01Rik	RIKEN cDNA D030074E01 gene
BG063062		D11Ertd497e	DNA segment, Chr 11, ERATO Doi 497, expressed
BG062930		D11Wsu99e	DNA segment, Chr 11, Wayne State University 99, expressed
AA409982		D7Wsu130e	DNA segment, Chr 7, Wayne State University 130, expressed
BG064783		Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
BG063739		Deb1	Differentially expressed in B16F10 1

BG063807		Dph5	DPH5 homolog (<i>S. cerevisiae</i>)
BG076954		Dynll1	Dynein light chain LC8-type 1
BG067080		EG668019	Predicted gene, EG668019
BG077176		Eif3s9	Eukaryotic translation initiation factor 3, subunit 9 (eta)
BG076418		Elac2	ElaC homolog 2 (<i>E. coli</i>)
BG063717		Exosc4	Exosome component 4
AW536970		Fkbp15	FK506 binding protein 15
BG064794		Ftl1	Ferritin light chain 1
BG063037		Gapvd1	GTPase activating protein and VPS9 domains 1
BG065281		Gmfb	Glia maturation factor, beta
BG064749		Gpr172b	G protein-coupled receptor 172B
BG067069		Gss	Glutathione synthetase
BG063040		Hist1h2ao	Histone cluster 1, H2ao
BG067688		Hnrpa3	Heterogeneous nuclear ribonucleoprotein A3
BG063051		Homer2	Homer homolog 2 (<i>Drosophila</i>)
BG063259		Ift74	Intraflagellar transport 74 homolog (<i>Chlamydomonas</i>)
BG067332		Itga9	Integrin alpha 9
AA408772		Jmjd3	Jumonji domain containing 3
BG077966		Krt18	Keratin 18
BG083078		Lancl2	LanC (bacterial lantibiotic synthetase component C)-like 2
BG074178		Loh11cr2a	Loss of heterozygosity, 11, chromosomal region 2, gene A
BG071250		Lrch2	Leucine-rich repeats and CH domain containing 2
BG063060		Lsg1	Large subunit GTPase 1 homolog (<i>S. cerevisiae</i>)
BG065170		Mapk8ip2	Mitogen-activated protein kinase 8 interacting protein 2
BG085336		Matn2	Matrilin 2
BG078181		Metap1	Methionyl aminopeptidase 1
BG063680		Mobkl2a	MOB1, Mps One Binder kinase activator-like 2A (yeast)
BG063606		Ndufaf1	NADH dehydrogenase 1 alpha subcomplex, assembly factor 1
BG076562		Ndufb7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7
AA409376		Nfya	Nuclear transcription factor-Y alpha
BG063385		Nmd3	NMD3 homolog (<i>S. cerevisiae</i>)
BG063624		Pbk	PDZ binding kinase
BG088805		Pde5a	Phosphodiesterase 5A, cGMP-specific
BG078506		Pisd	Phosphatidylserine decarboxylase
AW537841		Pitpnb	Phosphatidylinositol transfer protein, beta
AW538496		Plac8	Placenta-specific 8
BG078528		Pou5f1	POU domain, class 5, transcription factor 1

BG063033		Ppih	Peptidyl prolyl isomerase H
AA408595		Prtpa	Prolactin-like protein A
BG077050		Prpf19	PRP19/PSO4 pre-mRNA processing factor 19 homolog
BG063070		Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
BG076919		Rbms1	RNA binding motif, single stranded interacting protein 1
BQ552383		Rcl1	RNA terminal phosphate cyclase-like 1
BG080391		Rdh11	Retinol dehydrogenase 11
BG084537		Recc1	Replication factor C 1
BG069058		Rgs17	Regulator of G-protein signaling 17
BG063030		Rnf5	Ring finger protein 5
BG063016		Rod1	ROD1 regulator of differentiation 1 (S. pombe)
BG076749		Rpl17	Ribosomal protein L17
AW538640		Rpl21	Ribosomal protein L21
BG063667		Rps11	Ribosomal protein S11
BG067356		Rragc	Ras-related GTP binding C
BG063372		Safb2	Scaffold attachment factor B2
BG080423		Sart2	Squamous cell carcinoma antigen recognized by T cells 2
BG072628		Scmh1	Sex comb on midleg homolog 1
BG062929		Sct	Secretin
BG076434		Seplx1	Selenoprotein X 1
BG076972		Serpinb9b	Serine (or cysteine) peptidase inhibitor, clade B, member 9b
AA409665		Sfrs7	Splicing factor, arginine/serine-rich 7
BG063442		Sh3bgrl3	SH3 domain binding glutamic acid-rich protein-like 3
BG077091		Slc25a39	Solute carrier family 25, member 39
BG067865		Slc4a8	Solute carrier family 4 (anion exchanger), member 8
BG088856		Sltm	SAFB-like, transcription modulator
BG063419		Smapp1	Stromal membrane-associated protein 1
BG068028		Smarca5	SWI/SNF related, regulator of chromatin, subfamily a, member 5
BG063782		Smurf2	SMAD specific E3 ubiquitin protein ligase 2
BG071703		Snx5	Sorting nexin 5
AU040496		Sp100	Nuclear antigen Sp100
BG062985		Srrm2	Serine/arginine repetitive matrix 2
BG069374		St3gal1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
AU022550		Suv39h2	Suppressor of variegation 3-9 homolog 2 (Drosophila)
BG063718		Tbc1d7	TBC1 domain family, member 7
AW538495		Tmed9	Transmembrane emp24 protein transport domain containing 9
BG063347		Tmem11	Transmembrane protein 11

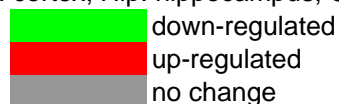
C86115		Tmem171	Transmembrane protein 171
BG071231		Tmem183a	Transmembrane protein 183A
BG063018		Tmem30a	Transmembrane protein 30A
BG064763		Top3b	Topoisomerase (DNA) III beta
BG077822		Tpm3	Tropomyosin 3, gamma
BG063676		Trnt1	TRNA nucleotidyl transferase, CCA-adding, 1
BG063019		Tspan32	Tetraspanin 32
BG069806		Ubc	Ubiquitin C
BG074177		Ube2i	Ubiquitin-conjugating enzyme E2I
BG073224		Ube2q1	Ubiquitin-conjugating enzyme E2Q (putative) 1
BG063031		Ube2v1	Ubiquitin-conjugating enzyme E2 variant 1
BG063823		Usp8	Ubiquitin specific peptidase 8
BG064839		Wdr1	WD repeat domain 1
BG063032		Wdr74	WD repeat domain 74
BG063059		Wnt6	Wingless-related MMTV integration site 6
BG076427		Zbtb20	Zinc finger and BTB domain containing 20
AU016199		Zfand3	Zinc finger, AN1-type domain 3
BG063020		Zmym6	Zinc finger, MYM-type 6
AA408075		EST	
AA409862		EST	
AW536284		EST	
AW537187		EST	
AW544945		EST	
AW549112		EST	
BG062939		EST	
BG062970		EST	
BG063041		EST	
BG063042		EST	
BG063052		EST	
BG063075		EST	
BG063874		EST	
BG064705		EST	Transcribed locus
BG065291		EST	
BG066525		EST	
BG067324		EST	
BG067884		EST	
BG068924		EST	Transcribed locus

BG068991		EST	
BG069013		EST	
BG069024		EST	
BG071929		EST	
BG073099		EST	
BG076942		EST	
BG078136		EST	
BG076610		4732418C07Rik	RIKEN cDNA 4732418C07 gene
BG079065		Adam15	A disintegrin and metallopeptidase domain 15 (metargidin)
BG070457		AU023851	Expressed sequence AU023851
BG078265		BC011248	CDNA sequence BC011248
BG066501		Brd1	Bromodomain containing 1
BG088218		Bsdc1	BSD domain containing 1
BG068484		Ccdc51	Coiled-coil domain containing 51
BG083212		D14Ertd668e	DNA segment, Chr 14, ERATO Doi 668, expressed
BG070001		D4Ertd617e	DNA segment, Chr 4, ERATO Doi 617, expressed
BG084373		Dmxl2	Dmx-like 2
BG064417		Ext1	Exostoses (multiple) 1
BG069620		Eya2	Eyes absent 2 homolog (Drosophila)
BG079093		Gltp	Glycolipid transfer protein
BG066139		Hip1r	Huntingtin interacting protein 1 related
BG082154		Il4	Interleukin 4
BG069617		Kremen1	Kringle containing transmembrane protein 1
BG066709		Lamb1-1	Laminin B1 subunit 1
BG070791		Lrp6	Low density lipoprotein receptor-related protein 6
BG070403		Mrps6	Mitochondrial ribosomal protein S6
BG066627		Mtus1	Mitochondrial tumor suppressor 1
C78261		Myom1	Myomesin 1
BG068017		Ncoa1	Nuclear receptor coactivator 1
BG085428		Ndufa12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
BG064395		Nfat5	Nuclear factor of activated T-cells 5
BG066471		Ogdhl	Oxoglutarate dehydrogenase-like
BG065744		Pank3	Pantothenate kinase 3
BG065814		Pcsk7	Proprotein convertase subtilisin/kexin type 7
BG066447		Pde4a	Phosphodiesterase 4A, cAMP specific
BG070320		Pla2r1	Phospholipase A2 receptor 1
BG074378		Pogk	Pogo transposable element with KRAB domain

BG072470		Pop4	Processing of precursor 4, ribonuclease P/MRP family
BG066817		Ppapdc1	Phosphatidic acid phosphatase type 2 domain containing 1
BG079960		Prkcz	Protein kinase C, zeta
BG074357		Psmc1	Protease (prosome, macropain) 26S subunit, ATPase 1
BG082759		Rps3	Ribosomal protein S3
BG073477		Syt7	Synaptotagmin VII
BG070349		Taf1	TAF1 RNA polymerase II, TBP-associated factor
BG067393		Tmem45a	Transmembrane protein 45a
BG067143		Twsg1	Twisted gastrulation homolog 1 (Drosophila)
BG066181		Wdr7	WD repeat domain 7
AU040400		EST	
BG065649		EST	
BG065684		EST	
BG065837		EST	
BG066060		EST	
BG066598		EST	
BG066836		EST	
BG067149		EST	
BG067416		EST	
BG067428		EST	
BG068265		EST	
BG068472		EST	
BG068989		EST	
BG069113		EST	
BG069257		EST	
BG070123		EST	
BG075125		EST	
BG081317		EST	
C78903		EST	
BG066653		Zw10	ZW10 homolog (Drosophila), centromere/kinetochore protein

TableS4a-24M. CR responsive gene lists of 24M mouse CNS.

Notes. Cor: cortex; Hip: hippocampus; Cer: cerebellum; Str: striatum; SC: spinal cord.



Acc	Cor-24-cr	Hip-24-cr	Cer-24-cr	Str-24-cr	SC-24-cr	Symbol	Name
BQ550334	down-regulated	no change	no change	no change	down-regulated	Pafah1b2	Platelet-activating factor acetylhydrolase, alpha2 subunit
BG069606	down-regulated	no change	no change	no change	down-regulated	Zfp592	Zinc finger protein 592
C79706	down-regulated	no change	no change	no change	down-regulated	EST	
BG077928	no change	no change	down-regulated	no change	down-regulated	C130032J12Rik	RIKEN cDNA C130032J12 gene
BG074610	no change	no change	down-regulated	no change	down-regulated	Glb1	Galactosidase, beta 1
BG066596	no change	no change	no change	down-regulated	down-regulated	EST	
BG064537	up-regulated	up-regulated	no change	no change	no change	Mark2	MAP/microtubule affinity-regulating kinase 2
BG069382	up-regulated	up-regulated	no change	no change	no change	EST	
BG071091	no change	no change	no change	no change	up-regulated	Arid2	AT rich interactive domain 2 (Arid-rfx like)
AW539315	no change	down-regulated	no change	no change	up-regulated	Ilf3	Interleukin enhancer binding factor 3
AW539112	no change	down-regulated	no change	no change	up-regulated	EST	
BG076211	up-regulated	down-regulated	no change	no change	no change	EST	Transcribed locus
BG067409	up-regulated	down-regulated	no change	no change	no change	Rapgef2	Rap guanine nucleotide exchange factor (GEF) 2
BG077811	no change	no change	no change	up-regulated	down-regulated	Nap111	Nucleosome assembly protein 1-like 1
BG079495	up-regulated	no change	down-regulated	no change	down-regulated	Josd3	Josephin domain containing 3
BG074676	up-regulated	no change	down-regulated	no change	no change	Rnf12	Ring finger protein 12
BG065712	up-regulated	down-regulated	no change	no change	no change	Spag9	Sperm associated antigen 9
BG065910	no change	up-regulated	no change	no change	down-regulated	BC026657	CDNA sequence BC026657
BG066231	no change	up-regulated	no change	no change	down-regulated	Cfdp1	Craniofacial development protein 1
AW536452	no change	up-regulated	no change	no change	down-regulated	Cul4b	Cullin 4B
BG079165	no change	up-regulated	no change	no change	down-regulated	D14Ert436e	DNA segment, Chr 14, ERATO Doi 436, expressed
BG082456	no change	up-regulated	no change	no change	down-regulated	Dnajc8	DnaJ (Hsp40) homolog, subfamily C, member 8
BG083097	no change	up-regulated	no change	no change	down-regulated	Hcfc1	Host cell factor C1
BG064506	no change	up-regulated	no change	no change	down-regulated	Il17d	Interleukin 17D
BG063222	no change	up-regulated	no change	no change	down-regulated	Pecam1	Platelet/endothelial cell adhesion molecule 1
BG077930	no change	up-regulated	no change	no change	down-regulated	Snx10	Sorting nexin 10
BG079167	no change	up-regulated	no change	no change	down-regulated	Zfp42	Zinc finger protein 42
BG065890	no change	up-regulated	no change	no change	down-regulated	Zfp710	Zinc finger protein 710

AU014963				EST	
BG065963				EST	
BG066241				EST	
BG068347				EST	strongly similar to XP_895654.1
BG070566				EST	strongly similar to XP_573676.1
BG066528				4933400N17Rik	RIKEN cDNA 4933400N17 gene
BG063260				4933437F05Rik	RIKEN cDNA 4933437F05 gene
BG069528				5730405I09Rik	RIKEN cDNA 5730405I09 gene
					ATP-binding cassette, sub-family C (CFTR/MRP), member 1
C76153				Abcc1	
BG069506				Arhgef7	Rho guanine nucleotide exchange factor (GEF7)
BG070219				Bat2d	BAT2 domain containing 1
BG065711				BC033606	CDNA sequence BC033606
BG068767				Bola1	BolA-like 1 (E. coli)
BG079566				Btrc	Beta-transducin repeat containing protein
BG079870				Caml	Calcium modulating ligand
BG078574				Cbx5	Chromobox homolog 5 (Drosophila HP1a)
AU023920				Ccnc	Cyclin C
BG065644				Cdc5l	Cell division cycle 5-like (S. pombe)
BG068414				Col25a1	Procollagen, type XXV, alpha 1
BG079872				Csh2	Chorionic somatomammotropin hormone 2
BG064252				Dhx57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57
BG066589				Dmd	Dystrophin, muscular dystrophy
BG071581				Dtl	Denticleless homolog (Drosophila)
BG066292				Dtnbp1	Dystrobrevin binding protein 1
BG078920				EG668628	Predicted gene, EG668628
BG079822				Htra2	HtrA serine peptidase 2
					Potassium inwardly-rectifying channel, subfamily K, member 6
BG069589				Kcnk6	
BG078898				Lgtn	Ligatin
BG082854				Mesp2	Mesoderm posterior 2
BG077638				Mrpl19	Mitochondrial ribosomal protein L19
BI076789				Myst4	MYST histone acetyltransferase monocytic leukemia 4
					Neural precursor cell expressed, developmentally down-regulated gene 4-like
BG066991				Nedd4l	

BG067047		Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
BG069555		Osbp18	Oxysterol binding protein-like 8
BG069544		Pde3a	Phosphodiesterase 3A, cGMP inhibited
BG078897		Phf12	PHD finger protein 12
AU021253		Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform
BG068154		Prdm10	PR domain containing 10
BG072059		Rex2	Reduced expression 2
BG078875		Rogdi	Rogdi homolog (Drosophila)
BG065620		Ss18	Synovial sarcoma translocation, Chromosome 18
BG067059		Tacr1	Tachykinin receptor 1
BG079508		Tbl1x	Transducin (beta)-like 1 X-linked
BG066559		Tnks1bp1	Tankyrase 1 binding protein 1
BG079801		Ube2l3	Ubiquitin-conjugating enzyme E2L 3
AA407331		EST	
BG063029		EST	
BG063918		EST	
BG064219		EST	
BG065589		EST	
BG065610		EST	
BG065657		EST	
BG066361		EST	
BG066362		EST	Transcribed locus
BG066527		EST	
BG066550		EST	
BG066561		EST	
BG066591		EST	
BG066724		EST	Transcribed locus
BG066736		EST	
BG068487		EST	
BG083198		EST	
C76156		EST	CDNA clone IMAGE:1548559
BG079860		EST	
BG069622		EST	
BG076883		1500003O22Rik	RIKEN cDNA 1500003O22 gene

BG063464	1600029D21Rik	RIKEN cDNA 1600029D21 gene
BG069487	9830169C18Rik	RIKEN cDNA 9830169C18 gene
BG077677	Actb	Actin, beta, cytoplasmic
BG065410	Adipor1	Adiponectin receptor 1
BG069970	Aox3l1	Aldehyde oxidase 3-like 1
BG067220	Btg4	B-cell translocation gene 4
BG069015	C030046E11Rik	RIKEN cDNA C030046E11 gene
BG075832	Ccnd2	Cyclin D2
BG063496	Cep55	Centrosomal protein 55
BG067933	Cirh1a	Cirrhosis, autosomal recessive 1A (human)
BG067866	Cxadr	Coxsackievirus and adenovirus receptor
BG073936	Ehbp111	EH domain binding protein 1-like 1
BG063430	Eif4a1	Eukaryotic translation initiation factor 4A1
BG075205	Foxj2	Forkhead box J2
BG064794	Ftl1	Ferritin light chain 1
BG085373	Gli2	GLI-Kruppel family member GLI2
BG067932	Glul	Glutamate-ammonia ligase (glutamine synthetase)
BG087174	Gmppa	GDP-mannose pyrophosphorylase A
BG077174	Gpbp111	GC-rich promoter binding protein 1-like 1
BG069026	Gpr1	G protein-coupled receptor 1
BG082403	Hist1h4m	Histone cluster 1, H4m
BG075825	Kifc2	Kinesin family member C2
AU043086	Lypla1	Lysophospholipase 1
BG073937	Msi2	Musashi homolog 2 (Drosophila)
BG076894	Mybbp1a	MYB binding protein (P160) 1a
BG085939	Ncaph	Non-SMC condensin I complex, subunit H
BG086032	Nkiras2	NFKB inhibitor interacting Ras-like protein 2
BG077751	Phb	Prohibitin
BG088924	Phkb	Phosphorylase kinase beta
BG072867	Prx	Periaxin
BG069304	Rnf41	Ring finger protein 41
BG075206	Rpl6	Ribosomal protein L6
BG068299	Slc7a8	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
BG068288	Slco1b2	Solute carrier organic anion transporter family, member 1b2
BG063419	Smap1	Stromal membrane-associated protein 1
BG082333	Smc6	Structural maintenance of chromosomes 6

BG070492		Synpr	Synaptoporin
BG082412		Tbp	TATA box binding protein
BG064631		Timeless	Timeless homolog (Drosophila)
BG067897		Tnrc6b	Trinucleotide repeat containing 6b
BG078718		Usf2	Upstream transcription factor 2
AW545973		Wac	WW domain containing adaptor with coiled-coil
BG067887		Wipf2	WAS/WASL interacting protein family, member 2
BG073159		Zdhhc16	Zinc finger, DHHC domain containing 16
BG078433		Zfp94	Zinc finger protein 94
AW546006		EST	
AW548741		EST	
AW551593		EST	
BG063874		EST	
BG066091		EST	
BG068197		EST	
BG068320		EST	
BG069293		EST	
BG071172		EST	
BG073099		EST	
BG066052		0610007P14Rik	RIKEN cDNA 0610007P14 gene
BG071450		1110008J03Rik	RIKEN cDNA 1110008J03 gene
BG074675		2010301N04Rik	RIKEN cDNA 2010301N04 gene
BG081908		4833439L19Rik	RIKEN cDNA 4833439L19 gene
BG065710		6230416J20Rik	RIKEN cDNA 6230416J20 gene
BG063015		9430023L20Rik	RIKEN cDNA 9430023L20 gene
BG074649		A530089I17Rik	RIKEN cDNA A530089I17 gene
BG086172		Abcd4	ATP-binding cassette, sub-family D (ALD), member 4
BG065930		Actn1	Actinin, alpha 1
BQ550304		Afg3l2	AFG3(ATPase family gene 3)-like 2 (yeast)
AA409025		Ankrd15	Ankyrin repeat domain 15
BG072388		Ap2b1	Adaptor-related protein complex 2, beta 1 subunit
BG074665		Arhgap10	Rho GTPase activating protein 10
			Ariadne ubiquitin-conjugating enzyme E2 binding protein
BG082246		Arih1	homolog 1 (Drosophila)
AW539588		Arcp4	Actin related protein 2/3 complex, subunit 4
BG072043		AU046084	Expressed sequence AU046084
BG066690		Aurkaip1	Aurora kinase A interacting protein 1

BQ550662		B3gnt7	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7
BQ550241		BC031781	CDNA sequence BC031781
BG069216		Bcas3	Breast carcinoma amplified sequence 3
BG084158		Bcat1	Branched chain aminotransferase 1, cytosolic
BG064920		Bex1	Brain expressed gene 1
BG078929		Bhmt	Betaine-homocysteine methyltransferase
BG066723		C80140	Expressed sequence C80140
BQ551014		Cast	Calpastatin
BG068393		Ccdc52	Coiled-coil domain containing 52
BG070939		Chek1	Checkpoint kinase 1 homolog (S. pombe)
			Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
BG063027		Cited2	
BG067015		Col23a1	Procollagen, type XXIII, alpha 1
BG075303		Cryz1	Crystallin, zeta (quinone reductase)-like 1
BG069122		Cs	Citrate synthase
BG065253		Cyfp1	Cytoplasmic FMR1 interacting protein 1
			DNA segment, Chr 11, Wayne State University 99, expressed
BG062930		D11Wsu99e	
BG082508		D2Ert750e	DNA segment, Chr 2, ERATO Doi 750, expressed
BG066590		Dgkg	Diacylglycerol kinase, gamma
BG072914		Dhdds	Dehydrodolichyl diphosphate synthase
BG082615		Dnajb9	DnaJ (Hsp40) homolog, subfamily B, member 9
BG069670		Dnajc2	DnaJ (Hsp40) homolog, subfamily C, member 2
C76608		Dppa4	Developmental pluripotency associated 4
BG069593		E030046B03Rik	RIKEN cDNA E030046B03 gene
BG069494		Eftud1	Elongation factor Tu GTP binding domain containing 1
BQ552280		Ehd4	EH-domain containing 4
			ELOVL family member 6, elongation of long chain fatty acids (yeast)
BG082524		Elovl6	
BQ551776		Fbxo30	F-box protein 30
BG064544		Fcho2	FCH domain only 2
BG070589		Frmpd1	FERM and PDZ domain containing 1
BG063037		Gapvd1	GTPase activating protein and VPS9 domains 1
BG072044		Garn1	GTPase activating RANGAP domain-like 1
BG065591		Ggnbp2	Gametogenetin binding protein 2
BG067069		Gss	Glutathione synthetase

BG066009		Gtf3c2	General transcription factor IIIC, polypeptide 2, beta
BG076718		H19	H19 fetal liver mRNA
BQ550683		Hmbs	Hydroxymethylbilane synthase
BG067688		Hnrpa3	Heterogeneous nuclear ribonucleoprotein A3
BG076765		Hnrpc	Heterogeneous nuclear ribonucleoprotein C
BG063259		Ift74	Intraflagellar transport 74 homolog (Chlamydomonas)
BQ550324		Il17re	Interleukin 17 receptor E
BG079507		Jarid1b	Jumonji, AT rich interactive domain 1B (Rbp2 like)
BG066271		Kars	Lysyl-tRNA synthetase
C81188		Kctd15	Potassium channel tetramerisation domain containing 15
BG082558		Kpna1	Karyopherin (importin) alpha 1
BG076451		Lama5	Laminin, alpha 5
BG073494		Leprel2	Leprecan-like 2
BG071597		Lman1	Lectin, mannose-binding, 1
BG071311		Lmtk2	Lemur tyrosine kinase 2
BG065340		Lrrc28	Leucine rich repeat containing 28
BG065699		Luzp1	Leucine zipper protein 1
BG070588		Map1lc3b	Microtubule-associated protein 1 light chain 3 beta
BG082602		Mark3	MAP/microtubule affinity-regulating kinase 3
BG064965		Mtif2	Mitochondrial translational initiation factor 2
BG079882		Myo1b	Myosin IB
BG079546		Ncoa6	Nuclear receptor coactivator 6
BG079485		Ndufa10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10
BG066700		Nol7	Nucleolar protein 7
BG071285		Nsun4	NOL1/NOP2/Sun domain family, member 4
C80273		Nsun5	NOL1/NOP2/Sun domain family, member 5
BG077570		Oaz2	Ornithine decarboxylase antizyme 2
BG083220		Pdia5	Protein disulfide isomerase associated 5
BG070766		Pdxk	Pyridoxal (pyridoxine, vitamin B6) kinase
BG083442		Pex19	Peroxisome biogenesis factor 19
BG068755		Phr1	Pam, highwire, rpm 1
BQ550997		Poldip3	Polymerase (DNA-directed), delta interacting protein 3
BG079588		Pqlc1	PQ loop repeat containing 1
BG070047		Pramel5	Preferentially expressed antigen in melanoma like 5
BG083143		Prei4	Preimplantation protein 4
AA408595		Prlpa	Prolactin-like protein A
BG065678		Prps1	Phosphoribosyl pyrophosphate synthetase 1

BG072681	Ptges3	Prostaglandin E synthase 3 (cytosolic)
BG072031	Pts	6-pyruvoyl-tetrahydropterin synthase
BG066969	R3hdm1	R3H domain 1 (binds single-stranded nucleic acids)
BG069603	Rbbp7	Retinoblastoma binding protein 7
BG070623	Rerg	RAS-like, estrogen-regulated, growth-inhibitor
BQ550347	Rhog	Ras homolog gene family, member G
BG072080	Rnf44	Ring finger protein 44
BG063016	Rod1	ROD1 regulator of differentiation 1 (S. pombe)
BG066735	RP23-248K2.4	Hepatitis A virus cellular receptor 1-like
BG062929	Sct	Secretin
BG080079	Senp6	SUMO/sentrin specific peptidase 6
BG065362	Sfrs11	Splicing factor, arginine/serine-rich 11
BG068028	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
BG078866	Stub1	STIP1 homology and U-Box containing protein 1
BQ552294	Stxbp6	Syntaxin binding protein 6 (amisyn)
BG063899	Taf3	TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor
BG066250	Tbx20	T-box 20
BQ550368	Tcfap2c	Transcription factor AP-2, gamma
AW556778	Tcn2	Transcobalamin 2
BQ550310	Tkt	Transketolase
BG079834	Tktl1	Transketolase-like 1
C87464	Tpd52	Tumor protein D52
BG087355	Tspan31	Tetraspanin 31
BG071300	Wrnip1	Werner helicase interacting protein 1
BG079790	Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
BQ550996	Ywhaq	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
BG065690	Zfml	Zinc finger, matrin-like
AA408676	EST	
AU022997	EST	Adult male cecum cDNA, RIKEN full-length enriched library, clone:9130219M01 product:unclassifiable, full insert sequence
BG065668	EST	
BG065698	EST	
BG065700	EST	

BG065948		EST	
BG066525		EST	
BG066588		EST	
BG066738		EST	
BG066960		EST	
BG066981		EST	
BG068143		EST	
BG068155		EST	
BG069123		EST	
BG069132		EST	
BG070231		EST	
BG070930		EST	Transcribed locus
BG071312		EST	Transcribed locus
BG071355		EST	
BG072465		EST	
BG073379		EST	
BG079861		EST	
BG080067		EST	
BG082809		EST	
C76835		EST	
C79862		EST	
BG080498		1700124P09Rik	RIKEN cDNA 1700124P09 gene
BG067190		Ankrd6	Ankyrin repeat domain 6
BG066189		Baz2a	Bromodomain adjacent to zinc finger domain, 2A
BG067546		Caskin2	Cask-interacting protein 2
BG071910		Ccdc115	Coiled-coil domain containing 115
BG073151		Cdc42bpb	Cdc42 binding protein kinase beta
BG076180		Col5a2	Procollagen, type V, alpha 2
BG088166		Entpd4	Ectonucleoside triphosphate diphosphohydrolase 4
BG087964		Fkbp9	FK506 binding protein 9
BG076556		Fntb	Farnesyltransferase, CAAX box, beta
BG064678		Gle1l	GLE1 RNA export mediator-like (yeast
BG073013		Golph4	Golgi phosphoprotein 4
BG086530		Hrc	Histidine rich calcium binding protein
BG073156		Klh17	Kelch-like 17 (Drosophila)
BG073173		Matr3	Matrin 3
BG087418		Ms4a6d	Membrane-spanning 4-domains, subfamily A, member 6D

BG075240		Prkar1a	Protein kinase, cAMP dependent regulatory, type I, alpha
BG088571		Psmb5	Proteasome (prosome, macropain) subunit, beta type 5
BG080698		Ptpn21	Protein tyrosine phosphatase, non-receptor type 21
BG087837		Ruvbl2	RuvB-like protein 2
			Smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)
BG087976		Smu1	
BG072876		Spog7	Spastic paraplegia 7 homolog (human)
BG073135		Syn3	Synapsin III
BG075873		Tbc1d20	TBC1 domain family, member 20
BG080018		Tcf25	Transcription factor 25 (basic helix-loop-helix)
BG063666		Tex19	Testis expressed gene 19
BG073155		Thap2	THAP domain containing, apoptosis associated protein 2
AW551856		EST	
AW558347		EST	
BG067439		EST	
BG069078		EST	
BG072733		EST	
BG072916		EST	
BG073930		EST	
BG074855		EST	
BG080562		EST	
			12 days embryo spinal cord cDNA, RIKEN full-length enriched library, clone:C530050B12 product:unclassifiable, full insert sequence
BG075830		EST	
C88307		2610204L23Rik	RIKEN cDNA 2610204L23 gene
BG066215		4921505C17Rik	RIKEN cDNA 4921505C17 gene
BG073921		Aff1	AF4/FMR2 family, member 1
BG079480		Anxa7	Annexin A7
BG070935		Arnt	Aryl hydrocarbon receptor nuclear translocator
BG066223		Arpc2	Actin related protein 2/3 complex, subunit 2
BG065908		C77370	Expressed sequence C77370
BG069719		Celsr1	Cadherin EGF LAG seven-pass G-type receptor 1
BG077911		Edem1	ER degradation enhancer, mannosidase alpha-like 1
BG079368		EG210583	Predicted gene, EG210583
BG065836		Erc1	ELKS/RAB6-interacting/CAST family member 1
BG086478		Gspt1	G1 to S phase transition 1
BG074724		Kns2	Kinesin 2

BG085378	Red	Marcks	Myristoylated alanine rich protein kinase C substrate
BG077006		Ogfr	Opioid growth factor receptor
BG069339		Pafah1b1	Platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit
C78402		Ppp2r2a	Protein phosphatase 2 (formerly 2A), regulatory subunit B (PR52), alpha isoform
BG073656		Slk	STE20-like kinase (yeast)
BG078928		Stmn3	Stathmin-like 3
BG073668		Tfb1m	Transcription factor B1, mitochondrial
BG066486		Tmtc1	Transmembrane and tetratricopeptide repeat containing 1
BG064504		EST	
BG065892		EST	
BG066782		EST	
BG067971		EST	
BG069057		EST	
BG069064		EST	
BG069349		EST	
BG070143		EST	
BG070486		EST	
BG071196		EST	
BG072204		EST	
BG072531		EST	
C78475	EST		
C88217	EST		
BG072382	Green	2610203C20Rik	RIKEN cDNA 2610203C20 gene
BG087796		Cdc14b	CDC14 cell division cycle 14 homolog B (S. cerevisiae)
BG087310		Dek	DEK oncogene (DNA binding)
BG069253		Dnajc5	DnaJ (Hsp40) homolog, subfamily C, member 5
AW558570		Ednra	Endothelin receptor type A
BG068108		Heph11	Hephaestin-like 1
BG072073		Ift122	Intraflagellar transport 122 homolog (Chlamydomonas)
BQ552325		Kif3c	Kinesin family member 3C
BG072307		Ncdn	Neurochondrin
BG078697		Plcb3	Phospholipase C, beta 3
BG083890		Ppfia1	Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein, alpha 1
BQ550366		Prkar2a	Protein kinase, cAMP dependent regulatory, type II alpha

BQ550958		Prpf18	PRP18 pre-mRNA processing factor 18 homolog (yeast)
BG073814		Sccpdh	Saccharopine dehydrogenase (putative)
BG068459		Slc45a3	Solute carrier family 45, member 3
BG077765		Sox8	SRY-box containing gene 8
BG086435		Tmem4	Transmembrane protein 4
BG072375		Ubx8	UBX domain containing 8
AU040661		EST	
BG073325		EST	
BQ551139		EST	Transcribed locus
C78728		EST	
AU019203		Alg2	Asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase)
BG078088		Alg9	Asparagine-linked glycosylation 9 homolog (yeast, alpha 1,2-mannosyltransferase)
AU041770		Emid2	EMI domain containing 2
BG083840		Mapk13	Mitogen activated protein kinase 13
			Nuclear casein kinase and cyclin-dependent kinase substrate 1
BG064665		Nucks1	
BG064799		Polg	Polymerase (DNA directed), gamma
BG077328		Rbm26	RNA binding motif protein 26
BG064869		Rnmt	RNA (guanine-7-) methyltransferase
BG069332		Tbc1d15	TBC1 domain family, member 15
BG064677		Trpc4ap	Transient receptor potential cation channel, subfamily C, member 4 associated protein
AW551611		EST	
AW554445		EST	
BG064868		EST	
BG065585		EST	
BG085515		EST	
BG067113		Dpp7	Dipeptidylpeptidase 7
BG066251		Hat1	Histone aminotransferase 1
BG067074		Hivep2	Human immunodeficiency virus type I enhancer binding protein 2
BG067007		Idh3a	Isocitrate dehydrogenase 3 (NAD+) alpha
BG067079		Mier3	Mesoderm induction early response 1, family member 3
C85129		Nlgn1	Neuroigin 1
BG080137		Zfp276	Zinc finger protein (C2H2 type) 276

BG065697			EST	
BG067704			EST	
BG076849			Bcs1l	BCS1-like (yeast)
BG073654			Ebf1	Early B-cell factor 1
BG065471			Gk5	Glycerol kinase 5 (putative)
AA408226			Ints2	Integrator complex subunit 2
BG077749			Mif	Macrophage migration inhibitory factor
BG077788			Mtmr4	Myotubularin related protein 4
BG076893			Rhob	Ras homolog gene family, member B
BG078672			Rpl26	Ribosomal protein L26
BG064458			EST	
C76309			1110012J17Rik	RIKEN cDNA 1110012J17 gene
BG069904			1190005F20Rik	RIKEN cDNA 1190005F20 gene
BG082833			1500003O03Rik	RIKEN cDNA 1500003O03 gene
BG065840			1700095A21Rik	RIKEN cDNA 1700095A21 gene
BG071214			1810037I17Rik	RIKEN cDNA 1810037I17 gene
BG082886			2010305A19Rik	RIKEN cDNA 2010305A19 gene
BG083629			2210010A19Rik	RIKEN cDNA 2210010A19 gene
BG063238			2310002J21Rik	RIKEN cDNA 2310002J21 gene
BG066930			2610019A05Rik	RIKEN cDNA 2610019A05 gene
BG065667			2700094F01Rik	RIKEN cDNA 2700094F01 gene
BG071462			2810006K23Rik	RIKEN cDNA 2810006K23 gene
BG076569			2810417H13Rik	RIKEN cDNA 2810417H13 gene
BG069307			4631424J17Rik	RIKEN cDNA 4631424J17 gene
BG073340			4921524J06Rik	RIKEN cDNA 4921524J06 gene
BG068399			4930432O21Rik	RIKEN cDNA 4930432O21 gene
BG070762			4930589O11Rik	RIKEN cDNA 4930589O11 gene
BG068796			6330581L23Rik	RIKEN cDNA 6330581L23 gene
BG066229			6720457D02Rik	RIKEN cDNA 6720457D02 gene
BQ550664			8030451K01Rik	RIKEN cDNA 8030451K01 gene
BQ551609			9130020K20Rik	RIKEN cDNA 9130020K20 gene
BG066056			9130404D08Rik	RIKEN cDNA 9130404D08 gene
AU014878			9530053H05Rik	RIKEN cDNA 9530053H05 gene
BG065302			Aaas	Achalasia, adrenocortical insufficiency, alacrimia
BG067888			Aak1	AP2 associated kinase 1
AA409115			Abl1	V-abl Abelson murine leukemia oncogene 1

BG069602		Acaa2	Acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)
BG067718		Acacb	Acetyl-Coenzyme A carboxylase beta
BG073745		Acbd3	Acyl-Coenzyme A binding domain containing 3
C76711		Aco2	Aconitase 2, mitochondrial
BQ550460		Acot8	Acyl-CoA thioesterase 8
BG079132		Agl	Amylo-1,6-glucosidase, 4-alpha-glucanotransferase
BG063039		AI428936	Expressed sequence AI428936
BG080412		Ak7	Adenylate kinase 7
C80443		Akap7	A kinase (PRKA) anchor protein 7
BG070055		Alg13	Asparagine-linked glycosylation 13 homolog (<i>S. cerevisiae</i>)
BG065639		Ap1gbp1	AP1 gamma subunit binding protein 1
BG068431		Armex1	Armadillo repeat containing, X-linked 1
BG066708		AU020772	Expressed sequence AU020772
BG068814		AU023871	Expressed sequence AU023871
BG081746		Azin1	Antizyme inhibitor 1
BG063043		B230333C21Rik	RIKEN cDNA B230333C21 gene
BG072468		Banp	Btg3 associated nuclear protein
BQ551560		Baz2b	Bromodomain adjacent to zinc finger domain, 2B
BG083308		BC013481	CDNA sequence BC013481
BG065913		BC021395	CDNA sequence BC021395
BG075706		BC032203	CDNA sequence BC032203
BG066329		BC038822	CDNA sequence BC038822
BQ552459		BC039210	CDNA sequence BC039210
BQ550263		Bcl7c	B-cell CLL/lymphoma 7C
BQ551022		Bicc1	Bicaudal C homolog 1 (<i>Drosophila</i>)
BG065601		Birc1c	Baculoviral IAP repeat-containing 1c
BG069361		Brp16	Brain protein 16
BG068466		C130039O16Rik	RIKEN cDNA C130039O16 gene
BG070530		C430003P19Rik	RIKEN cDNA C430003P19 gene
BG075437		C80913	Expressed sequence C80913
BG070322		Cacng5	Calcium channel, voltage-dependent, gamma subunit 5
BG070471		Calcoco1	Calcium binding and coiled coil domain 1
BG065922		Ccdc130	Coiled-coil domain containing 130
BQ550730		Ccdc36	Coiled-coil domain containing 36
BG083664		Ccn1	Cyclin L1
BG079699		Cct4	Chaperonin subunit 4 (delta)

BG073086		Cd2ap	CD2-associated protein
BQ551777		Cdc2l6	Cell division cycle 2-like 6 (CDK8-like)
BG066467		Cdh13	Cadherin 13
BG066570		Cdyl2	Chromodomain protein, Y chromosome-like 2
BG072287		Cenpk	Centromere protein K
BG065629		Centd1	Centaurin, delta 1
BG069669		Cep27	Centrosomal protein 27
C87415		Chchd2	Coiled-coil-helix-coiled-coil-helix domain containing 2
BG065893		Coq4	Coenzyme Q4 homolog (yeast)
BG079703		Cstf3	Cleavage stimulation factor, 3' pre-RNA, subunit 3
BG065899		Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
BG083209		Cyba	Cytochrome b-245, alpha polypeptide
BG066539		Cyp2s1	Cytochrome P450, family 2, subfamily s, polypeptide 1
BG070372		D10Erttd641e	DNA segment, Chr 10, ERATO Doi 641, expressed
BG070247		D17Erttd657e	DNA segment, Chr 17, ERATO Doi 657, expressed
AA407681		D17Wsu92e	DNA segment, Chr 17, Wayne State University 92, expressed
BG065769		D5Erttd135e	DNA segment, Chr 5, ERATO Doi 135, expressed
BG065959		D6Erttd47e	DNA segment, Chr 6, ERATO Doi 47, expressed
BG068420		D8Erttd457e	DNA segment, Chr 8, ERATO Doi 457, expressed
BG071093		D930036F22Rik	RIKEN cDNA D930036F22 gene
BG070080		Dmgdh	Dimethylglycine dehydrogenase precursor
BG066942		Dnmt3b	DNA methyltransferase 3B
BG066580		Dsg2	Desmoglein 2
BG072223		Dst	Dystonin
BG071403		E030031F02Rik	RIKEN cDNA E030031F02 gene
BG065803		E230006M18Rik	RIKEN cDNA E230006M18 gene
C76512		E2f3	E2F transcription factor 3
BG067080		EG668019	Predicted gene, EG668019
BG067005		Eif2b5	Eukaryotic translation initiation factor 2B, subunit 5 epsilon
BG069525		Ercc4	Excision repair cross-complementing rodent repair deficiency, complementation group 4
BG063061		Ermap	Erythroblast membrane-associated protein
BG065623		Etnk1	Ethanolamine kinase 1
BG065915		Etv6	Ets variant gene 6 (TEL oncogene)
BG066491		Fhod3	Formin homology 2 domain containing 3

BG086904		Fis1	Fission 1 (mitochondrial outer membrane) homolog (yeast)
BG070773		Fkbp1a	FK506 binding protein 1a
BG078930		Fkbp4	FK506 binding protein 4
BG072325		Fnbp1	Formin binding protein 1
BG073778		Fndc3a	Fibronectin type III domain containing 3a
BG071167		Fndc7	Fibronectin type III domain containing 7
BG066634		Galnt4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 GCN1 general control of amino-acid synthesis 1-like 1 (yeast)
BG064373		Gcn111	
BG079678		Gm288	Gene model 288, (NCBI)
BG067019		Gnaq	Guanine nucleotide binding protein, alpha q polypeptide
BG079035		Gosr2	Golgi SNAP receptor complex member 2
BG065592		Grhl2	Grainyhead-like 2 (Drosophila)
BG072298		Gripap1	GRIP1 associated protein 1
BG079049		Heatr2	HEAT repeat containing 2
BG082154		Il4	Interleukin 4
BG074597		Inoc1	INO80 complex homolog 1 (S. cerevisiae)
BG070709		Ints7	Integrator complex subunit 7
BG082348		lpo7	Importin 7
BG076768		Irak1	Interleukin-1 receptor-associated kinase 1
BG071191		Itga11	Integrin, alpha 11
BG070185		Jmjd1c	Jumonji domain containing 1C
BG066513		Kbtbd2	Kelch repeat and BTB (POZ) domain containing 2
BG073351		Kdelc2	KDEL (Lys-Asp-Glu-Leu) containing 2
BG069360		Klhl21	Kelch-like 21 (Drosophila)
BG066275		Kpna3	Karyopherin (importin) alpha 3
BQ551582		Lass6	Longevity assurance homolog 6 (S. cerevisiae)
BG081357		Lats1	Large tumor suppressor
C76424		Lhfp12	Lipoma HMGIC fusion partner-like 2
BG069534		Lman2l	Lectin, mannose-binding 2-like
BG069518		LOC245263	Similar to double homeobox, 4
BG071348		LOC435727	Similar to SET translocation (predicted)
BG071473		Lrp2	Low density lipoprotein receptor-related protein 2
BG079486		Lrrc59	Leucine rich repeat containing 59
BG069144		Lrrc7	Leucine rich repeat containing 7
BG067748		Lrrc8e	Leucine rich repeat containing 8 family, member E

BG065612		Lrrk2	Leucine-rich repeat kinase 2
AU017683		Ltbr	Lymphotoxin B receptor
BG077319		Lzts2	Leucine zipper, putative tumor suppressor 2
BG065891		Magi2	Membrane associated guanylate kinase, WW and PDZ domain containing 2
BQ552466		Mapkap1	Mitogen-activated protein kinase associated protein 1
BG074486		MGC107415	Hypothetical protein LOC383216
BG078615		Mns1	Meiosis-specific nuclear structural protein 1
BQ552525		Mrpl45	Mitochondrial ribosomal protein L45
BG071118		Mtg1	Mitochondrial GTPase 1 homolog (<i>S. cerevisiae</i>)
BG074650		Mtmr12	Vmyotubularin related protein 12
BG079321		Mvp	Major vault protein
BG082228		Mybl2	Myeloblastosis oncogene-like 2
BG079815		Naalad2	N-acetylated alpha-linked acidic dipeptidase 2
BG069191		Nasp	Nuclear autoantigenic sperm protein (histone-binding)
BG066401		Nbn	Nibrin
BG068017		Ncoa1	Nuclear receptor coactivator 1
BG071104		Nek8	NIMA (never in mitosis gene a)-related expressed kinase 8
BG071222		Nhlrc2	NHL repeat containing 2
BG071315		Nipbl	Nipped-B homolog (<i>Drosophila</i>)
BG066540		Nik	Nemo like kinase
C78607		Nlrp6	NLR family, pyrin domain containing 6
BG079578		Npc1	Niemann Pick type C1
BG072053		Nr2e1	Nuclear receptor subfamily 2, group E, member 1
BG068592		Nr6a1	Nuclear receptor subfamily 6, group A, member 1
BQ550616		Nudcd2	NudC domain containing 2
AU042946		Nup214	Nucleoporin 214
AU014844		Ogdh	Oxoglutarate dehydrogenase (lipoamide)
BG068961		Pam	Peptidylglycine alpha-amidating monooxygenase
BG075672		Papola	Poly (A) polymerase alpha
BG066648		Parp8	Poly (ADP-ribose) polymerase family, member 8
BG073605		Pawr	PRKC, apoptosis, WT1, regulator
BG066651		Pcca	Propionyl-Coenzyme A carboxylase, alpha polypeptide
AA407948		Peg10	Paternally expressed 10
BG066552		Phf17	PHD finger protein 17
BQ552256		Plagl2	Pleiomorphic adenoma gene-like 2
BG078885		Plk4	Polo-like kinase 4 (<i>Drosophila</i>)

BG066713		Pllp	Plasma membrane proteolipid
BG071360		Pofut1	Protein O-fucosyltransferase 1
BG071480		Pole2	Polymerase (DNA directed), epsilon 2 (p59 subunit)
BG072347		Polr3h	Polymerase (RNA) III (DNA directed) polypeptide H
BG083644		Por	P450 (cytochrome) oxidoreductase
			Protein phosphatase 1D magnesium-dependent, delta isoform
BG067048		Ppm1d	
BG081448		Ppp3cb	Protein phosphatase 3, catalytic subunit, beta isoform
BG065524		Prei3	Preimplantation protein 3
BG071336		Prkab1	Protein kinase, AMP-activated, beta 1 non-catalytic subunit
BG066674		Prune	Prune homolog (Drosophila)
BG066125		Psma4	Proteasome (prosome, macropain) subunit, alpha type 4
BG065633		Psmb2	Proteasome (prosome, macropain) subunit, beta type 2
			Proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
BG069898		Psmd11	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
BG066562		Psmd7	
BG067054		Rab10	RAB10, member RAS oncogene family
BG066306		Ranbp9	RAN binding protein 9
BG068432		Rap1a	RAS-related protein-1a
BG082817		Rb1	Retinoblastoma 1
BG066577		Rbm6	RNA binding motif protein 6
BG065852		Rcor1	REST corepressor 1
BG082634		Rfx3	Regulatory factor X, 3 (influences HLA class II expression)
BG065580		Rfx4	Regulatory factor X, 4 (influences HLA class II expression)
BG069058		Rgs17	Regulator of G-protein signaling 17
BG066639		Rhoa	Ras homolog gene family, member A
BG063313		Rnf187	Ring finger protein 187
BG079511		Rpl3	Ribosomal protein L3
BG079733		Rrm2	Ribonucleotide reductase M2
BG072412		Sdk1	Sidekick homolog 1 (chicken)
BG066686		Sfxn2	Sideroflexin 2
BG082445		Slc35f2	Solute carrier family 35, member F2
BG070178		Snrpc	U1 small nuclear ribonucleoprotein C
BG067008		Snx5	Sorting nexin 5
BG069359		Spata5	Spermatogenesis associated 5
BG064948		Spbc24	Spindle pole body component 24 homolog (S. cerevisiae)

BQ550417		Srgap2	SLIT-ROBO Rho GTPase activating protein 2
BG071533		Srpk2	Serine/arginine-rich protein specific kinase 2
BG066281		Srrp	Serine-arginine repressor protein
BQ552335		Stxbp4	Syntaxin binding protein 4
BG073342		Suhw4	Suppressor of hairy wing homolog 4 (Drosophila)
BG069533		Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila)
BG070349		Taf1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor
BG065608		Tbl2	Transducin (beta)-like 2
BG066999		Tcf12	Transcription factor 12
BG064989		Tcta	T-cell leukemia translocation altered gene
BG079123		Thap4	THAP domain containing 4
BG080049		Timm8b	Translocase of inner mitochondrial membrane 8 homolog b (yeast)
BQ550610		Tmco1	Transmembrane and coiled-coil domains 1
C77314		Tmem181	Transmembrane protein 181
BG066503		Tmem23	Transmembrane protein 23
BG067938		Tmem50a	Transmembrane protein 50A
BG065761		Tnfaip2	Tumor necrosis factor, alpha-induced protein 2
BG069517		Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12
BG069372		Tom1	Target of myb1 homolog (chicken)
BG062981		Tprkb	Tp53rk binding protein
BG079014		Trpm7	Transient receptor potential cation channel, subfamily M, member 7
BG082843		Trrap	Transformation/transcription domain-associated protein
BG070129		Ttl11	Tubulin tyrosine ligase-like family, member 11
BG066560		Tubgcp5	Tubulin, gamma complex associated protein 5
BG065643		Tufm	Tu translation elongation factor, mitochondrial
BG071871		Txndc10	Thioredoxin domain containing 10
BG067062		Ubap2	Ubiquitin-associated protein 2
BG078134		Ube2c	Ubiquitin-conjugating enzyme E2C
BQ552073		Ufd1l	Ubiquitin fusion degradation 1 like
BG065701		Upf2	UPF2 regulator of nonsense transcripts homolog (yeast)
BG065616		Vcp	Valosin containing protein
BG079187		Vnn1	Vanin 1
BG065802		Wipf1	WAS/WASL interacting protein family, member 1
AU022767		Xpo4	Exportin 4

BQ551652		Zc3h7a	Zinc finger CCCH type containing 7 A
BG066657		Zfand3	Zinc finger, AN1-type domain 3
BG066683		Zfp292	Zinc finger protein 292
BG073125		Zfp617	Zinc finger protein 617
AU046252		Zfp69	Zinc finger protein 69
BG070672		Zfp9	Zinc finger protein 9
AA408075		EST	
AA409525		EST	
AU016350		EST	
AU018238		EST	
AU040933		EST	
AU041304		EST	
AU042897		EST	Transcribed locus
AU042949		EST	
AU042966		EST	
AU044194		EST	Transcribed locus
BG063053		EST	
BG063089		EST	
BG063092		EST	Transcribed locus
BG063095		EST	
BG063195		EST	
BG063310		EST	Transcribed locus 2 cells egg cDNA, RIKEN full-length enriched library, clone:B020036G17 product:unclassifiable, full insert sequence
BG063398		EST	
BG063401		EST	
BG063532		EST	
BG063665		EST	
BG063959		EST	
BG064441		EST	
BG064514		EST	
BG064533		EST	Transcribed locus
BG065549		EST	
BG065559		EST	
BG065577		EST	
BG065611		EST	
BG065618		EST	

BG065622		EST
BG065624		EST
BG065630		EST
BG065632		EST
BG065635		EST
BG065659		EST
BG065666		EST
BG065684		EST
BG065688		EST
BG065779		EST
BG065839		EST
BG065862		EST
BG065883		EST
BG065911		EST
BG065912		EST
BG065928		EST
BG065949		EST
BG065957		EST
BG065991		EST
BG065992		EST
BG066008		EST
BG066063		EST
BG066066		EST
BG066090		EST
BG066122		EST
BG066124		EST
BG066236		EST
BG066258		EST
BG066276		EST
BG066278		EST
BG066288		EST
BG066300		EST
BG066341		EST
BG066345		EST
BG066371		EST
BG066384		EST
BG066399		EST

Transcribed locus

BG066412		EST
BG066479		EST
BG066530		EST
BG066568		EST
BG066573		EST
BG066579		EST
BG066598		EST
BG066601		EST
BG066602		EST
BG066623		EST
BG066624		EST
BG066647		EST
BG066659		EST
BG066670		EST
BG066691		EST
BG066711		EST
BG066716		EST
BG066720		EST
BG066740		EST
BG066778		EST
BG066783		EST
BG066901		EST
BG066913		EST
BG066997		EST
BG067000		EST
BG067042		EST
BG067385		EST
BG067815		EST
BG068055		EST
BG068069		EST
BG068097		EST
BG068348		EST
BG068350		EST
BG068410		EST
BG068421		EST

Adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230210N13 product:unclassifiable, full insert sequence

Transcribed locus

BG068426		EST
BG068428		EST
BG068435		EST
BG068436		EST
BG068456		EST
BG068461		EST
BG068468		EST
BG068469		EST
BG068472		EST
BG068486		EST
BG068684		EST
BG068694		EST
BG068784		EST
BG068840		EST
BG068994		EST
BG069008		EST
BG069091		EST
BG069113		EST
BG069127		EST
BG069152		EST
BG069183		EST
BG069215		EST
BG069363		EST
BG069458		EST
BG069501		EST
BG069545		EST
BG069629		EST
BG069940		EST
BG070059		EST
BG070182		EST
BG070195		EST
BG070244		EST
BG070250		EST
BG070256		EST
BG070301		EST
BG070556		EST
BG070572		EST

Transcribed locus

Transcribed locus

BG070581		EST	Transcribed locus
BG070587		EST	
BG070648		EST	
BG070663		EST	
BG070697		EST	
BG070717		EST	
BG070753		EST	
BG070867		EST	
BG070879		EST	Transcribed locus
BG070931		EST	
BG070967		EST	
BG071106		EST	
BG071141		EST	
BG071170		EST	
BG071179		EST	
BG071183		EST	
BG071323		EST	
BG071357		EST	
BG071361		EST	
BG071371		EST	
BG071376		EST	
BG071380		EST	
BG071461		EST	
BG071739		EST	
BG071862		EST	
BG071864		EST	
BG071873		EST	
BG072392		EST	
BG072400		EST	
BG072414		EST	
BG072469		EST	
BG073033		EST	
BG073476		EST	
BG073675		EST	
BG075634		EST	
BG079181		EST	
BG079188		EST	

BG079400		EST	
BG079819		EST	
BG080992		EST	
BG081451		EST	
BG083560		EST	
BG083661		EST	
BG083945		EST	
BG083989		EST	
BG084924		EST	
BG087979		EST	
BQ550180		EST	
BQ550326		EST	
BQ550353		EST	
BQ550466		EST	
BQ550502		EST	
BQ550555		EST	
BQ551082		EST	Transcribed locus
BQ551838		EST	
BQ552076		EST	
BQ552150		EST	
BQ552422		EST	
BQ552528		EST	
C79520		EST	
C79547		EST	
C79832		EST	
C79876		EST	
C79973		EST	
BG076251		0610025P10Rik	RIKEN cDNA 0610025P10 gene
BG077473		0610031J06Rik	RIKEN cDNA 0610031J06 gene
BG077425		0610038F07Rik	RIKEN cDNA 0610038F07 gene
BG076241		1700001L05Rik	RIKEN cDNA 1700001L05 gene
BG067245		2210009G21Rik	RIKEN cDNA 2210009G21 gene
BG077494		2810430M08Rik	RIKEN cDNA 2810430M08 gene
BG068558		4732496O08Rik	RIKEN cDNA 4732496O08 gene
BG076093		4933425L03Rik	RIKEN cDNA 4933425L03 gene
BG064168		5830416A07Rik	RIKEN cDNA 5830416A07 gene
BG070420		5830484A20Rik	RIKEN cDNA 5830484A20 gene

BG067505	9030416H16Rik	RIKEN cDNA 9030416H16 gene
BG076134	9330120H11Rik	RIKEN cDNA 9330120H11 gene
BG068195	Abce1	ATP-binding cassette, sub-family E (OABP), member 1
BG078031	Abcf1	ATP-binding cassette, sub-family F (GCN20), member 1
BG065421	Abi1	Abl-interactor 1
BG076298	Abi2	Abl-interactor 2
BG080706	Acpl2	Acid phosphatase-like 2
BG076190	AI462493	Expressed sequence AI462493
BG067269	Ak2	Adenylate kinase 2
BG080773	Ampd3	AMP deaminase 3
BG067528	Angpt4	Angiopoietin 4
BG063987	Anxa11	Annexin A11
AW544549	Appbp2	Amyloid beta precursor protein (cytoplasmic tail) binding protein 2
BG064139	Arih2	Ariadne homolog 2 (Drosophila)
BG075032	Armxc6	Armadillo repeat containing, X-linked 6
BG077307	Arpc5	Actin related protein 2/3 complex, subunit 5
AW539306	Atp13a1	ATPase type 13A1
BG079910	Atp6v0a1	ATPase, H ⁺ transporting, lysosomal V0 subunit A1
BG080527	Atp6v0a4	ATPase, H ⁺ transporting, lysosomal V0 subunit A4
BG064408	AU022875	Expressed sequence AU022875
BG076340	BC003324	CDNA sequence BC003324
BG067471	BC063749	CDNA sequence BC063749
BG075041	C730024G19Rik	RIKEN cDNA C730024G19 gene
BG067811	C87011	Expressed sequence C87011
BG067211	Cald1	Caldesmon 1
BG077365	Canx	Calnexin
BG075808	Ccdc46	Coiled-coil domain containing 46
BG066826	Ccdc86	Coiled-coil domain containing 86
BG080262	Cib1	Calcium and integrin binding 1 (calmyrin)
BG080327	Clta	Clathrin, light polypeptide (Lca)
BG067515	Csmd1	CUB and Sushi multiple domains 1
BG067383	Ctsb	Cathepsin B
BG067467	D10Ert447e	DNA segment, Chr 10, ERATO Doi 447, expressed
BG063993	Dcbld2	Discoidin, CUB and LCCL domain containing 2
BG077491	Dym	Dymeclin
BG080282	EG665317	Predicted gene, EG665317

AW537726	Eif5	Eukaryotic translation initiation factor 5
BG080787	Eps15	Epidermal growth factor receptor pathway substrate 15
BG064195	Esam1	Endothelial cell-specific adhesion molecule
BG077308	Etf1	Eukaryotic translation termination factor 1
BG074239	Exoc6b	Exocyst complex component 6B
BG078032	Fbxl18	F-box and leucine-rich repeat protein 18
BG067311	Fbxw17	F-box and WD-40 domain protein 17
AU023208	Gna14	Guanine nucleotide binding protein, alpha 14
BG086996	Golga1	Golgi autoantigen, golgin subfamily a, 1
BG080751	Gpi1	Glucose phosphate isomerase 1
BG064747	Gpt1	Glutamic pyruvic transaminase 1, soluble
BG062947	H2afj	H2A histone family, member J
BG067847	Hif3a	Hypoxia inducible factor 3, alpha subunit
BG078700	Hmgb3	High mobility group box 3
BG077623	Hprt1	Hypoxanthine guanine phosphoribosyl transferase 1
AW544146	Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
BG076144	Il10rb	Interleukin 10 receptor, beta
		Integrin-linked kinase-associated serine/threonine phosphatase 2C
BG088536	Ilkap	
BG077144	Ing1	Inhibitor of growth family, member 1
BG080578	Itpk1	Inositol 1,3,4-triphosphate 5/6 kinase
BG067589	Itpr2	Inositol 1,4,5-triphosphate receptor 2
BG076299	Kif16b	Kinesin family member 16B
BG063992	Ldlr	Low density lipoprotein receptor
BG067268	Lin9	Lin-9 homolog (C. elegans)
C79029	Lrrc16	Leucine rich repeat containing 16
BG066400	Ltbp1	Latent transforming growth factor beta binding protein 1
BG077510	Marcksl1	MARCKS-like 1
AW539214	Mars2	Methionine-tRNA synthetase 2 (mitochondrial)
BG080557	Mcc	Mutated in colorectal cancers
BG080212	Mcm10	Minichromosome maintenance deficient 10 (S. cerevisiae)
BG080240	Mdm2	Transformed mouse 3T3 cell double minute 2
		Mediator of RNA polymerase II transcription, subunit 28 homolog (yeast)
BG077636	Med28	
BG076331	Mmp2	Matrix metalloproteinase 2
BG077730	Mrpl38	Mitochondrial ribosomal protein L38
BG077482	Mtdh	Metadherin

BG063646		Mucdhl	Mucin and cadherin like
BG068329		Mybl1	Myeloblastosis oncogene-like 1
BG067580		Myo1d	Myosin ID
BG067588		Nup160	Nucleoporin 160
BG077430		Obfc2a	Oligonucleotide/oligosaccharide-binding fold containing 2A
BG080730		Paip1	Polyadenylate binding protein-interacting protein 1
BG067246		Pctk3	PCTAIRE-motif protein kinase 3
BG077755		Pfpl	Pore forming protein-like
BG077815		Phf16	PHD finger protein 16
BG080549		Plac9	Placenta specific 9
BG067450		Plekha5	Pleckstrin homology domain containing, family A member 5
BG087717		Pms2	Postmeiotic segregation increased 2 (<i>S. cerevisiae</i>)
BG077413		Pnp0	Pyridoxine 5'-phosphate oxidase
BG080716		Polr2c	Polymerase (RNA) II (DNA directed) polypeptide C
BG067404		Ppil5	Peptidylprolyl isomerase (cyclophilin) like 5
BG076307		Prkab2	Protein kinase, AMP-activated, beta 2 non-catalytic subunit
BG076094		Rab11fip2	RAB11 family interacting protein 2 (class I)
AW543826		Rab2	RAB2, member RAS oncogene family
BG077338		Rcc1	Regulator of chromosome condensation 1
BG063781		Rnf2	Ring finger protein 2
BG066381		Rpl27	Ribosomal protein L27
BG067517		Rragc	Ras-related GTP binding C
BG064126		Slc2a1	Solute carrier family 2 (facilitated glucose transporter), member 1
BG088937		Smarca4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
BG080589		Smarcd3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3
BG076183		Smc1b	Structural maintenance of chromosomes 1B
BG067180		Srbd1	S1 RNA binding domain 1
BG064318		Srebf1	Sterol regulatory element binding factor 1
BG067560		Ssbp2	Single-stranded DNA binding protein 2
BG088369		St5	Suppression of tumorigenicity 5
BG080328		Stk11	Serine/threonine kinase 11
BG067447		Tada1l	Transcriptional adaptor 1 (HF11 homolog, yeast) like
BG080604		Tank	TRAF family member-associated Nf-kappa B activator
BG080542		Taok2	TAO kinase 2

BG080602		Tax1bp1	Tax1 (human T-cell leukemia virus type I) binding protein 1
BG064135		Thada	Thyroid adenoma associated
BG082196		Tiparp	TCDD-inducible poly(ADP-ribose) polymerase
BG076403		Tmtc4	Transmembrane and tetratricopeptide repeat containing 4
BG067553		Tnc	Tenascin C
BG078038		Topors	Topoisomerase I binding, arginine/serine-rich
BG075608		Tpi1	Triosephosphate isomerase 1
AW537534		Tpm4	Tropomyosin 4
BG067120		Traf3ip2	Traf3 interacting protein 2
BG078643		Trh	Thyrotropin releasing hormone
BG067444		Trim46	Tripartite motif protein 46
BG066380		Trip12	Thyroid hormone receptor interactor 12
BG077537		Tsc22d4	TSC22 domain family 4
BG067233		Ttc32	Tetratricopeptide repeat domain 32
BG064124		Txndc1	Thioredoxin domain containing 1
BG078001		Ube1x	Ubiquitin-activating enzyme E1, Chr X
BG080481		Ubx2	UBX domain containing 2
			UTP15, U3 small nucleolar ribonucleoprotein, homolog (yeast)
BG064150		Utp15	
BG063952		Wdr26	WD repeat domain 26
BG076339		Wdr68	WD repeat domain 68
BG064105		Zfp36l2	Zinc finger protein 36, C3H type-like 2
BG067234		Zfp422-rs1	Zinc finger protein 422, related sequence 1
BG076391		Zfp445	Zinc finger protein 445
BG067516		Zfp511	Zinc finger protein 511
AA410137		EST	
AW536084		EST	
AW536190		EST	
AW536769		EST	
AW536804		EST	
AW537378		EST	
AW537455		EST	
AW537468		EST	
AW537491		EST	
AW537514		EST	
AW537542		EST	
AW537634		EST	

AW537693		EST
AW537910		EST
AW538179		EST
AW538759		EST
AW538984		EST
AW538990		EST
AW539114		EST
AW539443		EST
AW542384		EST
AW542467		EST
AW543461		EST
AW543494		EST
AW543498		EST
AW543642		EST
AW543654		EST
AW543679		EST
AW544448		EST
AW544592		EST
AW544673		EST
AW548043		EST
AW553287		EST
BG063395		EST
BG063842		EST
BG063906		EST
BG063953		EST
BG064088		EST
BG064094		EST
BG064159		EST
BG064174		EST
BG064176		EST
BG064793		EST
BG066803		EST
BG067210		EST
BG067243		EST
BG067416		EST
BG067503		EST
BG067504		EST

Transcribed locus

BG067527		EST	
BG067531		EST	
BG067551		EST	
BG067575		EST	
BG067598		EST	Transcribed locus
BG067611		EST	
BG067647		EST	
BG071920		EST	
BG073132		EST	
BG074282		EST	
BG075466		EST	
BG076137		EST	Transcribed locus
BG076370		EST	Transcribed locus
			2 days pregnant adult female ovary cDNA, RIKEN full-length enriched library, clone:E330027H18 product:unclassifiable, full insert sequence
BG080577		EST	
BG080593		EST	
BG080594		EST	
BG080616		EST	
BI076560		EST	
C85808		EST	

TableS4c. The impact of CR on the reversion of AAGs expression.

Notes. Red color represents upregulation in aging; blue color represents downregulation in aging.

Green color represents reversion of upregulated AAGs; Purple color represents reversion of downregulated AAG.

CORTEX

Ratio	Ratio	Acc	Symbol	Name	Chromosome
24M-CR/AD	AD-24M/16M				
-1.94	1.71	BG088924	Phkb	Phosphorylase kinase beta	8
-2.74	1.60	BG076894	Mybbp1a	MYB binding protein 1a	11
-1.76	1.64	BG073936	LOC114601	Tangerin	19
-2.48	3.11	BG075825	Kifc2	Kinesin family member C2	15
-1.56	1.85	BG087174	Gmppa	GDP-mannose pyrophosphorylase A	1
-1.91	1.68	BG075206	4930429A22Rik	RIKEN cDNA 4930429A22 gene	1
1.98	-1.71	BG065689	Ube2l3	Ubiquitin-conjugating enzyme E2L 3	
1.82	-2.04	BG072681	Tebp	Prostaglandin E synthase 3	10
1.79	-1.52	BG079508	Tb11x	Transducin -like 1 X-linked	X
2.29	-1.55	BG065620	Ss18	Synovial sarcoma translocation, Chromosome 18	18
2.22	-1.51	BG064920	Rex3	Brain expressed X-linked protein 1	X
1.78	-1.85	BG070766	Pdxk	Pyridoxal kinase	10
2.17	-2.01	BG083198	Paip2	Polyadenylate-binding protein-interacting protein 2	18
2.51	-2.36	BG066700	Nol7	Nucleolar protein 7	13
1.94	-1.88	BG073379	Nckap1	NCK-associated protein 1	2
2.15	-2.08	BG082602	Mark3	MAP/microtubule affinity-regulating kinase 3	12
2.25	-1.66	BG078898	Lgtn	Ligatin	1
2.18	-1.78	BG069589	Kcnk6	TWIK-2 two-pore-domain K+ channel	7
2.52	-2.33	BG071450	Iqcd	IQ motif containing D	5
1.89	-1.80	BG076765	Hnrpc	Heterogeneous nuclear ribonucleoprotein C	4
1.67	-1.64	BG072044	Garnl1	GTPase activating RANGAP domain-like 1 , transcript variant 2	12
2.26	-1.67	BG066589	Dmd	Dystrophin, muscular dystrophy	X
1.77	-1.71	BG075303	Cryz1l	Crystallin, zeta -like 1	16
1.71	-1.68	BQ550996	Cdk5rap2	CDK5 regulatory subunit associated protein 2	4
2.21	-1.63	BG079870	Caml	Calcium modulating ligand	13
2.26	-1.90	BG079566	Btrc	Beta-transducin repeat containing protein	19
1.99	-1.53	BG069506	Arhgef7	Rho guanine nucleotide exchange factor	8
1.73	-1.59	AA409025	Ankrd15	Ankyrin repeat domain 15	19
2.48	-1.64	BG063015	9430023L20Rik	RIKEN cDNA 9430023L20 gene	15

2.41	-2.14	BG069528	5730405I09Rik	RIKEN cDNA 5730405I09 gene	18
1.65	-1.70	BG074675	2010301N04Rik	RIKEN cDNA 2010301N04 gene	6
2.13	-1.68	BG070219	1810043M20Rik	BAT2 domain containing 1	1
1.69	-1.50	BG066690	0610033H09Rik	Aurora kinase A interacting protein 1	4
1.98	-1.59	BG066735	EST		
2.37	-2.18	BG066724	EST		
1.57	-1.51	BG066591	EST		
2.54	-1.64	BG063918	EST		
2.10	-1.65	AU023920	EST		
2.15	-1.66	BQ550324	EST		
1.60	-1.67	BG072465	EST		
2.29	-1.68	BQ550997	EST		
1.78	-1.69	BG069622	EST		
1.85	-1.70	BG079860	EST		
2.01	-1.88	BQ551014	EST		
2.30	-1.94	BG072031	EST		
2.37	-1.95	BG069132	EST		
2.74	-2.05	BG066361	EST		
2.74	-2.29	BG066588	EST		
2.98	-2.37	BG065948	EST		
2.40	-3.30	BG072043	EST		

	AAG	CR respon:	Reverted
Up	145.00	6	4.1
Down	305.00	44	14.4

HIPPOCAMPUS

24M-CR/AD	AD-24M/16M	Acc	Symbol	Name	Chromosome
1.78	-2.53	BG073668	Tfb1m	Transcription factor B1, mitochondrial (Tfb1m), mRNA	17
1.53	-1.65	BG085378	EST		

	AAG	CR	Reverted (%)
Up	192.00	0	0 (down)
Down	208.00	2	1.0 (up)

CEREBELLUM

24M-CR/AD	AD-24M/16M	Acc	Symbol	Name	Chromosome
-2.1801323	2.20341149	BG072073	Wdr10	MFLJ00025 protein	6
-1.593072	1.56066728	BG074610	Glb1	Galactosidase, beta 1, mRNA (cDNA clone MGC:25403 IMAGE:4240285)	9
				PREDICTED: similar to Liprin-alpha 1 (Protein tyrosine phosphatase receptor type f polypeptide-interacting protein alpha 1) (PTPRF-interacting protein alpha 1) (LAR-interacting protein 1) (LIP.1) [Mus musculus], mRNA sequence	7
-2.1453543	1.56546235	BG083890	Ppfa1	RIKEN cDNA 2210404D11 gene (2210404D11Rik), mRNA	13
-2.2595158	2.46101756	BG072375	2210404D11Rik		
-1.6579216	1.78334667	BQ551139	EST		
-1.6654181	1.69258313	BG073325	EST		
-2.8313557	2.2562481	BQ552325	EST		
2.75371048	-3.29844015	BG064869	Rnmt	IMAGE:4208274)	18
2.27897993	-2.02419775	BG064665	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	1
				Transient receptor potential cation channel, subfamily C, member 4 associated protein, mRNA (cDNA clone MGC:25542 IMAGE:3673725)	2
1.82364747	-1.78847761	BG064677	Trpc4ap		
2.51827545	-3.39696633	BG064868	EST		

	AAG	CR	Reverted (%)
Up	49		7 14.3 (down)
Down	166		4 2.4 (up)

STRIATUM

Zero

	AAG	CR	Reverted (%)
Up	75		0 0 (down)
Down	63		0 0 (up)

SPINAL CORD

24M-CR/AD	AD-24M/16M	Acc	Symbol	Name	Chromosome
-1.76	1.75	BQ552073	Ufd1l	Ubiquitin fusion degradation 1 like, mRNA (cDNA clone MGC:11477 IMAGE:3708320)	16
-1.92	1.52	BG065991	Ttc19	Tetratricopeptide repeat domain 19, mRNA (cDNA clone MGC:47198 IMAGE:5370464)	11
-1.56	1.75	BG086904	Ttc11	Tetratricopeptide repeat domain 11, mRNA (cDNA clone MGC:18717 IMAGE:4221162)	5
-3.41	3.14	BG082843	Trrap	Transformation/transcription domain-associated protein, mRNA (cDNA clone IMAGE:5043876)	5
-2.31	1.52	BG079014	Trpm7	LTRPC7 (Ltrpc7)	2
-2.53	1.86	BG066559	Tnks1bp1	Tankyrase 1 binding protein 1, mRNA (cDNA clone IMAGE:4982635)	2
-2.31	1.81	BG069517	Tnfsf13	Tumor necrosis factor (ligand) superfamily, member 13 (Tnfsf13), mRNA	11
-2.06	1.70	BG066503	Tmem23	Transmembrane protein 23 (Tmem23), mRNA	19
-2.69	2.05	BG066997	Thns1l	Threonine synthase-like 1 (bacterial), mRNA (cDNA clone IMAGE:5037172)	2
-1.92	1.96	BG064989	Tcta	T-cell leukemia translocation altered gene, mRNA (cDNA clone MGC:25540 IMAGE:3672301)	9
-1.62	1.50	BG079508	Tbl1x	Transducin (beta)-like 1 X-linked (Tbl1x), mRNA	X
-2.07	2.01	BG069533	Suv420h1	Suppressor of variegation 4-20 homolog 1 (Drosophila) (Suv420h1), mRNA	19
-3.50	2.70	BG083097	Stx1b1	Syntaxin 1B2 (Stx1b2), mRNA	7
-1.62	1.69	C79706	Stam2	Signal transducing adaptor molecule (SH3 domain and ITAM motif) 2, mRNA (cDNA clone MGC:18336 IMAGE:3671426)	2
-1.86	1.77	BQ550417	Srgap2	GAP2	1
-2.09	2.41	BG072287	Solt	SoxLZ/Sox6 leucine zipper binding protein in testis (Solt), transcript variant 1, mRNA	13
-1.81	1.80	BG077930	Snx10	Sorting nexin 10 (Snx10), mRNA	6
-3.25	1.95	BG065899	Sh2bp1	SH2 domain binding protein 1 (tetratricopeptide repeat containing) (Sh2bp1), mRNA	7
-2.81	1.69	BG079733	Rrm2	Ribonucleotide reductase M2 (Rrm2), mRNA	12
-2.74	1.81	BG079511	Rpl3	Ribosomal protein L3, mRNA (cDNA clone MGC:6334 IMAGE:3485069)	?
-2.10	2.31	BG082817	Rb1	Retinoblastoma 1 (Rb1), mRNA	14
-2.29	1.77	BG068432	Rap1a	RAS-related protein-1a (Rap1a), mRNA	3
-2.04	1.81	BG066562	Psmc7	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Psmc7), mRNA	8
-1.97	1.64	BG065524	Prei3	Preimplantation protein 3 (Prei3), mRNA	1
-2.57	1.59	BG081448	Ppp3cb	Calmodulin dependent phosphatase catalytic subunit (Cam-Prp) mRNA, 3' end	14

-2.11	2.24	AU021253	Ppm1a	Protein phosphatase 1A, magnesium dependent, alpha isoform, mRNA (cDNA clone MGC:6077 IMAGE:3581897)	12
-1.60	1.95	BG066345	Pkp4	Plakophilin 4, mRNA (cDNA clone MGC:100358 IMAGE:30648695)	2
-1.75	1.68	BG066066	Pik3r3	Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55) (Pik3r3), mRNA	4
-3.03	2.23	BG078897	Phf12	PHD finger protein 12, mRNA (cDNA clone IMAGE:4457783)	11
-1.59	2.07	BG069544	Pde3a	Phosphodiesterase 3A, cGMP inhibited (Pde3a), mRNA	6
-2.15	2.04	BG083198	Paip2	Polyadenylate-binding protein-interacting protein 2, mRNA (cDNA clone MGC:11595 IMAGE:3964799)	18
-1.65	1.64	BQ550334	Pafah1b2	Platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit, mRNA (cDNA clone MGC:5963 IMAGE:3486003)	9
-1.96	2.42	BG069555	Osbp18	Oxysterol binding protein-like 8 (Osbp18), transcript variant 2, mRNA	10
-2.19	1.70	AU014844	Ogdh	Oxoglutarate dehydrogenase (lipoamide), mRNA (cDNA clone IMAGE:4983309)	11
-2.97	1.91	BG081746	Oazin	Antizyme inhibitor 1, mRNA (cDNA clone MGC:30222 IMAGE:5151406)	15
-3.55	2.56	BG068694	Nup155	Nucleoporin 155 (Nup155), mRNA	15
-2.03	1.80	BG079578	Npc1	Niemann Pick type C1 (Npc1), mRNA	18
-1.91	1.94	BG070274	Nlk	Nemo like kinase (Nlk), mRNA	11
-2.24	1.98	BG077638	Mrpl19	Mitochondrial ribosomal protein L19, mRNA (cDNA clone IMAGE:5029482)	6
-2.38	2.06	BG078615	Mns1	Meiosis-specific nuclear structural protein 1 (Mns1), mRNA	9
-1.70	2.12	BG082854	Mesp2	Mesoderm posterior 2 (Mesp2), mRNA	7
-1.94	1.51	BG068456	Map3k3	Mitogen activated protein kinase kinase kinase 3, mRNA (cDNA clone MGC:38453 IMAGE:5346982)	11
-1.69	2.04	BG077319	Lzts2	Leucine zipper, putative tumor suppressor 2 (Lzts2), mRNA	19
-2.27	2.05	BG068814	Ly6g6c	Ly6g6c protein, splice variant 1	17
-2.48	2.12	BG065612	Lrrk2	Leucine-rich repeat kinase 2, mRNA (cDNA clone IMAGE:4242403)	15
-1.80	1.54	BG069534	Lman2l	Lectin, mannose-binding 2-like (Lman2l), mRNA	1
-1.70	1.81	C76424	Lhfpl2	Lipoma HMGIC fusion partner-like 2, mRNA (cDNA clone MGC:27827 IMAGE:3484974)	13
-2.01	1.86	BG078898	Lgtn	Ligatin, mRNA (cDNA clone MGC:36900 IMAGE:4935223)	1
-2.33	2.03	BQ551582	Lass6	Longevity assurance homolog 6 (<i>S. cerevisiae</i>), mRNA (cDNA clone MGC:67674 IMAGE:4224547)	2
-1.85	1.63	BG078920	Khsrp	KH-type splicing regulatory protein (Khsrp), mRNA	17
-2.74	2.19	BG066550	Kctd5	Potassium channel tetramerisation domain containing 5, mRNA (cDNA clone MGC:28594 IMAGE:4215964)	17
-1.63	1.55	BG083661	Ilf3	Interleukin enhancer binding factor 3 (Ilf3), mRNA	9

-1.82	2.31	BG064506	Il17d	Interleukin 17D (Il17d), mRNA	14
-2.73	2.14	BQ550353	Hmgn1	High mobility group nucleosomal binding domain 1 (Hmgn1), mRNA	16
-1.90	1.91	BG078930	Fkbp4	FK506 binding protein 4, mRNA (cDNA clone MGC:6528 IMAGE:2651490)	6
-2.09	1.60	BG070773	Fkbp1a	FK506 binding protein 1a, mRNA (cDNA clone MGC:6253 IMAGE:3498682)	2
-1.84	1.72	BG066491	FHOS2	MKIAA1695 protein	18
-1.70	1.64	BG065915	Etv6	Ets variant gene 6 (TEL oncogene) (Etv6), mRNA	6
-2.60	2.24	BG065623	Etnk1	PREDICTED: ethanolamine kinase 1 [Mus musculus], mRNA sequence	6
-2.91	2.67	BG069525	Ercc4	Excision repair cross-complementing rodent repair deficiency, complementation group 4, mRNA (cDNA clone MGC:30522 IMAGE:4911382)	16
-1.65	1.66	BG068469	Ednrb	Endothelin receptor type B, mRNA (cDNA clone MGC:36102 IMAGE:4971909)	14
-1.85	1.79	BG071167	E230011A21Rik	Fibronectin type III domain containing 7 (Fncl7), mRNA PREDICTED: hypothetical protein E130307A14 [Mus musculus], mRNA	3
-2.96	2.53	BG070195	E130307A14Rik	sequence Dystrobrevin binding protein 1, mRNA (cDNA clone MGC:25855 IMAGE:4195234)	10
-2.81	1.61	BG066292	Dtnbp1	IMAGE:4195234)	13
-2.00	2.32	BG066580	Dsg2	Desmoglein 2 (Dsg2), mRNA DNA cytosine methyltransferase 3b6 (Dnmt3b6) mRNA, complete cds;	18
-1.96	1.75	BG066942	Dnmt3b	alternatively spliced	2
-1.60	1.50	BG070080	Dmgdh	Dimethylglycine dehydrogenase precursor (Dmgdh), mRNA RIKEN cDNA D930036F22 gene, mRNA (cDNA clone MGC:99412 IMAGE:30544145)	13
-1.66	1.70	BG071093	D930036F22Rik	IMAGE:30544145)	12
-2.93	2.72	BG068420	D8Ert457e	DNA segment, Chr 8, ERATO Doi 457, expressed, mRNA (cDNA clone MGC:38639 IMAGE:5355869)	8
-2.28	1.62	BG065769	D5Ert4135e	DNA segment, Chr 5, ERATO Doi 135, expressed, mRNA (cDNA clone MGC:69960 IMAGE:6516578)	5
-1.55	1.77	BG070372	D10Ert4641e	DNA segment, Chr 10, ERATO Doi 641, expressed, mRNA (cDNA clone MGC:35747 IMAGE:3984181)	10
-1.76	1.84	BG083209	Cyba	Cytochrome b-245, alpha polypeptide (Cyba), mRNA	8
-2.50	1.92	BG068414	Col25a1	Procollagen, type XXV, alpha 1 (Col25a1), transcript variant 1, mRNA	3
-2.98	1.80	BG065629	Centd1	Centaurin, delta 1, mRNA (cDNA clone IMAGE:3710592)	5
-1.61	1.59	BG066570	Cdyl2	Chromodomain protein, Y chromosome-like 2 (Cdyl2), mRNA	8
-2.23	2.02	BG065644	Cdc5l	Cell division cycle 5-like (S. pombe) (Cdc5l), mRNA	?
-2.50	1.86	BG079699	Cct4	Chaperonin subunit 4 (delta) (Cct4), mRNA	11

-1.98	2.13	BG077928	C130032J12Rik	RIKEN cDNA C130032J12 gene, mRNA (cDNA clone IMAGE:6850209) CDNA sequence BC013481, mRNA (cDNA clone MGC:37504 IMAGE:4984936)		14
-1.77	1.59	BG083308	BC013481	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, mRNA (cDNA clone MGC:107711 IMAGE:6833930)	?	
-1.92	2.06	BG070349	B430306D02Rik	RIKEN cDNA B230219D22 gene, mRNA (cDNA clone IMAGE:3711169) DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57, mRNA (cDNA clone IMAGE:4489006)	X	13
-2.30	1.81	BG063398	B230219D22Rik	Expressed sequence AU020772, mRNA (cDNA clone MGC:122966 IMAGE:30643564)		17
-1.91	2.10	BG064252	AW494914	AP1 gamma subunit binding protein 1 (Ap1gbp1), mRNA	?	7
-1.97	1.83	BG066708	AU020772	Peripheral benzodiazepine receptor associated protein (Pap7) PREDICTED: hypothetical protein XP_485801 [Mus musculus], mRNA sequence		1
-1.76	1.73	BG065639	Ap1gbp1	Expressed sequence AA407526, mRNA (cDNA clone MGC:67689 IMAGE:5353891)		6
-2.49	1.73	BG073745	Acbd3	RIKEN cDNA A630082K20 gene, mRNA (cDNA clone IMAGE:3488682)		5
-1.81	2.27	BG067888	Aak1	RIKEN cDNA 9130404D08 gene (9130404D08Rik), mRNA		6
-1.81	1.60	AU042966	AA407526	MKIAA4083 protein		8
-1.91	1.70	BG070663	A630082K20Rik	RIKEN cDNA 6330581L23 gene (6330581L23Rik), mRNA		3
-1.59	1.70	BG066056	9130404D08Rik	Hypothetical protein 6030458H05 (6030458H05), mRNA		7
-2.26	2.48	BQ550664	8030451K01Rik	RIKEN cDNA 5430400N05 gene, mRNA (cDNA clone MGC:79151 IMAGE:6849964)		8
-1.94	1.73	BG068796	6330581L23Rik	PREDICTED: RIKEN cDNA 4930539A06 [Mus musculus], mRNA sequence RIKEN cDNA 4930432O21 gene, mRNA (cDNA clone MGC:90082 IMAGE:6418362)		7
-2.65	1.83	BG063195	6030458H05	RIKEN cDNA 4930402H24 gene, mRNA (cDNA clone IMAGE:5366525) RIKEN cDNA 4632428N05 gene, mRNA (cDNA clone MGC:7407 IMAGE:3488482)		8
-2.54	1.51	BG065890	5430400N05Rik	RIKEN cDNA 2810047L02 gene, mRNA (cDNA clone MGC:64712 IMAGE:6837782)		7
-1.83	1.53	BG065711	4930539A06Rik	RIKEN cDNA 2810002D13 gene, mRNA (cDNA clone MGC:41417 IMAGE:3328402)		5
-2.01	1.56	BG068399	4930432O21Rik	RIKEN cDNA 2700094F01 gene, mRNA (cDNA clone MGC:73433 IMAGE:6400080)		17
-2.52	2.65	BG069898	4930402H24Rik			2
-2.54	2.55	BQ551701	4632428N05Rik			10
-2.47	2.72	BG071581	2810047L02Rik			1
-2.06	1.82	BG069669	2810002D13Rik			2
-2.49	2.16	BG065667	2700094F01Rik			6

-2.25	1.73	BG063089	2510002D24Rik	PREDICTED: Mus musculus RIKEN cDNA 2510002D24 gene (2510002D24Rik), mRNA	16
-2.24	1.70	BG082886	2010305A19Rik	RIKEN cDNA 2010305A19 gene, mRNA (cDNA clone MGC:8003 IMAGE:3585966)	4
-2.10	2.13	BG067748	1810049O03Rik	Leucine rich repeat containing 8 family, member E, mRNA (cDNA clone IMAGE:4019849)	8
-1.84	1.61	BG062981	1810034M08Rik	RIKEN cDNA 1810034M08 gene, mRNA (cDNA clone MGC:38694 IMAGE:5357332)	6
-2.57	2.22	BQ551838	1700022N24Rik	Ring finger protein 185 (Rnf185), mRNA	11
-2.24	1.57	BG065616	1700022I11Rik	RIKEN cDNA 1700022I11 gene (1700022I11Rik), mRNA	4
-2.73	2.21	BG082833	1500003O03Rik	RIKEN cDNA 1500003O03 gene (1500003O03Rik), mRNA	2
-2.63	2.47	BG069904	1190005F20Rik	RIKEN cDNA 1190005F20 gene, mRNA (cDNA clone IMAGE:4459087)	1
-2.12	1.76	BG070762	1110003E01Rik	RIKEN cDNA 1110003E01 gene (1110003E01Rik), mRNA	5
-2.12	1.58	BQ550263	EST	CDNA, clone:Y2G0113F14, strand:unspecified	7
-1.65	1.80	BG072059	EST	Transcribed locus	4
-2.07	1.56	BG066720	EST	PREDICTED: Mus musculus similar to GPAD9366 (LOC546998), mRNA PREDICTED: similar to OTTMUSP00000000621 [Mus musculus], mRNA	7
-1.84	1.53	BG065992	EST	sequence	13
-1.76	1.59	C76156	EST	CDNA clone IMAGE:1548559	1
-1.76	1.83	BG063092	EST	Transcribed locus PREDICTED: similar to RIKEN cDNA 8430426H19 [Mus musculus], mRNA	13
-3.58	1.89	BG066229	EST	sequence Transcribed locus, moderately similar to NP_795929.1 hypothetical protein	13
-1.87	1.63	BG070059	EST	LOC319587 [Mus musculus] CDNA, clone:Y2G0121L09, strand:minus, reference:ENSEMBL:Mouse-	8
-1.74	2.90	BG066125	EST	Transcript-ENST:ENSMUST00000034848, based on BLAT search	18
-2.08	1.51	BG066683	EST	10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810040C05 product:unclassifiable, full insert sequence	4
-1.69	2.06	BG065657	EST	Transcribed locus	X
-2.68	2.36	BG068017	EST	Transcribed locus, moderately similar to NP_076356.1 hypothetical protein LOC77547 [Mus musculus]	12
-2.01	1.52	BG066362	EST	Transcribed locus, moderately similar to NP_795929.1 hypothetical protein LOC319587 [Mus musculus]	2
-2.06	2.41	BG079400	EST	PREDICTED: similar to Mthfd1l protein [Mus musculus], mRNA sequence	12
-3.00	1.72	BG066647	EST	Transcribed locus, moderately similar to NP_795929.1 hypothetical protein LOC319587 [Mus musculus]	17
-2.75	3.58	BQ552150	EST		

-2.81	3.25	BG081451	EST
-3.20	2.77	BG068784	EST
-2.49	2.73	BG066008	EST
-3.65	2.72	BG063053	EST
-2.57	2.68	BG068069	EST
-2.73	2.63	BG066412	EST
-2.98	2.61	BG064514	EST
-2.16	2.56	BG068461	EST
-2.83	2.50	BG065622	EST
-3.20	2.47	BG069091	EST
-2.62	2.44	BG066341	EST
-2.26	2.43	BG082154	EST
-2.80	2.40	BG068466	EST
-2.81	2.37	BG065611	EST
-2.93	2.37	BG065957	EST
-2.59	2.33	BG071357	EST
-3.25	2.32	BG070556	EST
-1.86	2.32	BI076789	EST
-3.28	2.31	BG070555	EST
-2.69	2.25	BG065610	EST
-1.98	2.21	BG079181	EST
-1.66	2.20	BG066371	EST
-2.38	2.20	BG068421	EST
-2.13	2.19	C79832	EST
-2.49	2.19	BG066467	EST
-2.13	2.18	BG072412	EST
-2.15	2.18	BG066778	EST
-2.95	2.16	BG069363	EST
-2.40	2.12	BG066560	EST
-2.11	2.12	BG069545	EST
-2.74	2.10	BG078885	EST
-2.13	2.09	BG066090	EST
-2.40	2.07	BG063665	EST
-1.93	2.05	BG070931	EST
-1.79	2.01	BG065601	EST
-2.91	2.01	BG070182	EST
-2.16	2.00	BG082228	EST

-2.08	2.00	C76711	EST
-2.26	1.98	BG068840	EST
-1.86	1.97	BG066598	EST
-2.22	1.97	BG066306	EST
-2.87	1.95	BG068436	EST
-2.17	1.94	BG068410	EST
-2.82	1.90	BG066670	EST
-1.91	1.90	BG069501	EST
-2.52	1.88	BG066711	EST
-2.02	1.88	BG065839	EST
-2.40	1.87	BG070256	EST
-2.22	1.85	BG071376	EST
-1.66	1.84	BG068426	EST
-2.69	1.84	AA407948	EST
-1.96	1.82	BG066561	EST
-2.76	1.81	BG070530	EST
-2.43	1.80	BG070301	EST
-2.06	1.79	C76309	EST
-1.88	1.79	BG065635	EST
-1.52	1.78	BQ550180	EST
-2.35	1.78	BG075634	EST
-2.40	1.77	BG067047	EST
-2.03	1.75	BG069113	EST
-1.79	1.74	BG068097	EST
-2.67	1.74	BG068684	EST
-1.90	1.72	BG069127	EST
-1.70	1.71	BG065659	EST
-2.42	1.71	BG069191	EST
-1.78	1.70	BG074486	EST
-1.85	1.69	BG071533	EST
-2.11	1.68	BG068347	EST
-1.83	1.68	BG068961	EST
-1.91	1.67	BG066122	EST
-2.02	1.67	BG068472	EST
-1.76	1.65	BG065666	EST
-1.58	1.65	BG075437	EST
-2.07	1.65	BG071862	EST

-1.72	1.64	BG070055	EST		
-2.26	1.62	BG066124	EST		
-1.89	1.61	BG064441	EST		
-2.33	1.61	BG066361	EST		
-1.81	1.61	BQ550502	EST		
-2.23	1.58	BG066315	EST		
-1.51	1.57	BG066579	EST		
-1.83	1.56	BG070250	EST		
-1.94	1.56	BG083989	EST		
-1.86	1.56	BG064219	EST		
-2.19	1.55	BG063222	EST		
-1.68	1.55	BG073605	EST		
-2.10	1.55	BG072400	EST		
-1.62	1.52	BQ550730	EST		
-2.30	1.52	BG066591	EST		
-1.83	1.51	BG069622	EST		
2.16	-2.01	BG087717	Pms2	Postmeiotic segregation increased 2 (<i>S. cerevisiae</i>) (Pms2), mRNA	5
1.53	-2.16	BG075608	Tpi1	Triosephosphate isomerase 1 (Tpi1), mRNA	6
				Golgi autoantigen, golgin subfamily a, 1, mRNA (cDNA clone MGC:91089	
2.19	-3.51	BG086996	Golga1	IMAGE:30110235)	2
				ATP-binding cassette, sub-family E (OABP), member 1, mRNA (cDNA clone	
2.17	-1.62	BG068195	Abce1	MGC:5781 IMAGE:3489529)	8
2.05	-1.77	BG067233	1700013G20Rik	RIKEN cDNA 1700013G20 gene (1700013G20Rik), mRNA	12
1.94	-1.76	BG067243	EST		
1.76	-2.95	BG074282	EST		

	AAG	CR	Reverted (%)
Up	441.00		215 48.8 (down)
Down	207.00		7 3.4(up)

TableS5b,c. Genes differentially affected by CR in males and females

Notes. Red color represents higher expressed in female; blue color represents lower expression in female.

CORTEX

Z-ratio CR-6M-F/M	Z-ratio CR-16M-F/M	Z-ratio CR-24M-F/M	Acc	Symbol	Name
0.36	0.04	-0.11	BG070467	Zfp622	Zinc finger protein 622
2.35	0.94	1.76	BG070251	Zfp238	Transcriptional repressor RP58
1.51	-0.24	2.61	BG079807	Usp24	Ubiquitin specific peptidase 24
0.87	2.26	0.41	BG073370	Ttc3	Tetratricopeptide repeat domain 3
0.75	1.28	2.21	BG076546	Trim8	Tripartite motif protein 8
0.99	1.08	1.16	AW538640	Snx14	Ribosomal protein L21
-0.85	0.96	0.18	AW554387	Sgpl1	Sphingosine phosphate lyase 1
0.50	-0.25	0.97	BG068826	Serpinb7	Serine peptidase inhibitor, clade B, member 7
-2.16	2.54	-1.45	BG069849	Rpp30	Ribonuclease P/MRP 30 subunit
0.13	-0.44	0.50	BG069542	Pcbp1	Poly binding protein 1
-0.71	0.44	0.19	BG068751	Olf75-ps1	V1 olfactory receptor protein
0.25	1.40	0.27	BG064652	Maea	Macrophage erythroblast attacher
0.05	-0.32	0.24	BG066737	Itgav	Integrin alpha V
1.39	0.82	5.43	BG069958	E330013P04Rik	RIKEN cDNA E330013P04 gene
1.78	1.26	1.44	BG064608	Calr	Calreticulin
1.14	0.18	-0.56	BG068473	Birc4	Baculoviral IAP repeat-containing 4
0.56	0.45	0.86	BG064661	Basp1	Brain abundant, membrane attached signal protein 1
1.21	-0.10	1.63	BG076540	AA407930	Zinc finger, AN1-type domain 2A
0.96	-1.11	1.38	C79009	1810042K04Rik	RIKEN cDNA 1810042K04 gene
0.28	-0.60	1.01	BG069565	1700029G01Rik	RIKEN cDNA 1700029G01 gene
1.16	0.86	0.15	C86087	0610012H03Rik	RIKEN cDNA 0610012H03 gene
1.47	0.15	1.52	BG065393	EST	
0.73	-1.34	0.30	BG068104	EST	
-1.62	1.53	-0.47	BG069825	EST	
-0.37	-0.79	1.51	BG068886	EST	
1.56	-0.48	-0.10	AU023920	EST	
1.54	2.15	1.22	BG065291	EST	
-1.72	2.88	-0.96	BG068388	EST	
0.77	-0.79	1.04	BG068500	EST	
1.04	-1.21	1.06	BG065302	EST	

-1.53	-0.73	-1.71	BG085672	TxnI5	Thioredoxin-like 5
-0.41	0.44	-1.13	BG070585	Tsfm	Ts translation elongation factor, mitochondrial
-1.20	-0.10	-1.95	BQ550736	Tcea3	Transcription elongation factor A , 3
-0.47	-0.31	-0.42	BG065064	Taf9	TAF9 RNA polymerase II, TATA box binding protein -associated factor, transcript variant 2
-2.20	0.00	-0.79	BG066688	Siat7c	ST6 -N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
-0.90	-1.62	-1.28	BG083236	Pten	Phosphatase and tensin homolog
0.69	-0.57	-0.09	BG081537	Kpna3	Karyopherin alpha 3
-2.83	0.43	-1.13	BG069838	Ddhd1	DDHD domain containing 1
0.69	-0.66	-1.83	BG070401	Cnm2	Cyclin M2
-1.63	-1.66	-0.84	BG075132	AW555464	Expressed sequence AW555464
-4.23	-0.90	-4.68	BQ552053	2810055G20Rik	PREDICTED: hypothetical protein LOC77994 [Mus musculus]
-1.68	0.15	-0.50	BG066685	1200003E16Rik	RIKEN cDNA 1200003E16 gene
-2.43	-0.69	-1.62	BG070924	EST	
1.15	-1.71	0.83	C78986	EST	
-0.89	1.27	-1.45	BG070205	EST	
-0.57	-0.81	0.05	BG081620	EST	

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Z-ratio	Z-ratio	Z-ratio	Acc	Symbol	Name
CR-6M-F/M	CR-16M-F/M	CR-24M-F/M			
1.85	1.46	1.17	BG069606	Zfp592	Zinc finger protein 592
1.10	1.97	1.65	BG069655	Xrcc1	X-ray repair complementing defective repair in Chinese hamster cells 1
1.27	1.27	0.96	BG066181	Wdr7	MKIAA0541 protein
1.79	1.75	1.93	BG065630	Wdr45l	Wdr45 like
1.61	0.50	1.99	BG065802	Waspip	Wiskott-Aldrich syndrome protein interacting protein
1.72	0.68	1.29	BG085488	Vps4a	Vacuolar protein sorting 4a
1.94	1.09	1.76	BQ550655	Usp19	Ubiquitin specific peptidase 19
0.67	0.49	-0.19	BG073370	Ttc3	Tetratricopeptide repeat domain 3
2.02	1.62	1.99	BG065991	Ttc19	Tetratricopeptide repeat domain 19
2.37	1.85	1.78	BQ551339	Tssc1	Tumor suppressing subtransferable candidate 1
0.57	1.33	0.79	BG072497	Trim24	Tripartite motif protein 24
2.27	1.62	1.46	BG071020	Tdp1	Tyrosyl-DNA phosphodiesterase 1
2.03	1.17	2.44	BG065592	Tcfcp2l3	Grainyhead-like 2

1.34	0.55	0.42	BG069294	Tcf19	Transcription factor 19
1.77	1.06	2.16	BG069533	Suv420h1	Suppressor of variegation 4-20 homolog 1
1.61	2.46	1.99	BG079034	Sphk2	Sphingosine kinase 2, transcript variant 1
1.02	1.07	0.19	BQ550430	Snrk	SNF related kinase
1.07	0.88	2.09	AA407331	Smad2	MAD homolog 2
0.66	0.90	1.12	BG085322	Slc30a7	Solute carrier family 30 , member 7
1.75	0.84	1.62	BG065899	Sh2bp1	SH2 domain binding protein 1
1.17	0.44	1.55	BQ552581	Serpina3g	Spi2 proteinase inhibitor mRNA, 3' end
1.21	0.97	0.90	BQ552557	Sec22l1	SEC22 vesicle trafficking protein-like 1
2.12	0.57	0.25	BG064641	Rpp14	Ribonuclease P 14 subunit
1.49	3.23	1.83	BG066731	Rnf3	Polycomb group ring finger 3
-0.71	-0.37	0.76	BG087385	Rad18	RAD18 homolog
3.01	0.32	1.61	BG066621	Pttg1ip	Pituitary tumor-transforming 1 interacting protein
0.27	2.10	1.62	BQ550679	Ptpn9	Protein tyrosine phosphatase, non-receptor type 9
1.49	2.05	1.73	BG065790	Ppp2r5e	MKIAA4006 protein
0.59	0.54	-0.13	BG072730	Ppgb	Protective protein for beta-galactosidase
0.47	0.45	1.12	BG080231	Pld2	Phospholipase D2
1.97	0.61	1.49	BG086437	Pkig	Protein kinase inhibitor, gamma
1.16	3.01	0.90	BG079995	Oraov1	Oral cancer overexpressed 1
1.81	0.79	1.13	BQ551869	Odz3	ODZ3
0.73	2.05	1.69	BG081608	Nup37	Nucleoporin 37
0.35	1.29	-0.25	BG063054	Nolc1	Nucleolar and coiled-body phosphoprotein 1
1.72	0.38	1.78	BG071156	Nin	Ninein
					Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent
2.11	2.78	2.75	BG066755	Nfatc2ip	2 interacting protein
2.05	1.01	1.19	BG085296	Nde1	Nuclear distribution gene E homolog 1
1.66	1.26	2.10	BG079815	Naalad2	N-acetylated alpha-linked acidic dipeptidase 2
0.34	0.31	0.51	BG068957	Mtus1	Mitochondrial tumor suppressor 1
0.68	1.15	1.39	BQ551264	Mpzl1	Myelin protein zero-like 1
0.35	0.96	1.61	BQ550599	Mpp5	Membrane protein, palmitoylated 5
1.39	1.30	1.82	BG078615	Mns1	Meiosis-specific nuclear structural protein 1
1.87	0.99	2.54	BG071031	Mmp7	Matrix metalloproteinase 7
1.46	0.97	2.08	BG078870	Mkrn1-ps1	Makorin, ring finger protein 1, pseudogene 1
1.89	1.41	1.05	BQ552370	Mga	MAX gene associated
1.14	1.82	1.81	BG065788	Map2k3	Mitogen activated protein kinase kinase 3
0.88	1.09	0.04	BG086554	Macf1	Microtubule-actin crosslinking factor
1.57	1.42	1.99	BG078875	Lzf	Leucine zipper domain protein

1.99	1.10	1.34	AA407765	Lyn	Yamaguchi sarcoma viral oncogene homolog
2.14	0.25	0.17	BG068242	LOC209387	Expressed sequence AI451617
0.47	0.44	1.68	BG069534	Lman2	Lectin, mannose-binding 2-like
1.20	0.25	2.24	BG081236	Lats1	Large tumor suppressor 1
0.80	2.25	1.58	BG082622	Il4ra	Interleukin 4 receptor, alpha
0.76	1.66	1.47	BG079889	Idi1	Isopentenyl-diphosphate delta isomerase
0.77	2.19	1.26	BG079012	Hnra1	Heterogeneous nuclear ribonucleoprotein A1
0.73	1.52	0.74	BG065104	Hmgb1	High mobility group box 1
0.30	0.56	0.47	BG066728	Hdgf	Hepatoma-derived growth factor
1.62	1.82	3.11	BG070049	H6pd	Hexose-6-phosphate dehydrogenase
0.44	2.82	1.18	BG066629	Gt(ROSA)26asSor	THUMP domain containing 3
1.68	1.75	1.26	BG069549	Grm5	Glutamate receptor, metabotropic 5
1.85	3.19	2.93	BG079093	Gltp	Glycolipid transfer protein
1.35	1.83	1.28	BQ551115	Ggps1	Geranylgeranyl diphosphate synthase 1
0.63	0.25	0.43	BG077096	Gcnt2	Glucosaminyl transferase 2, I-branching enzyme , transcript variant 2
0.32	1.46	1.99	BG082672	Fzd3	Frizzled homolog 3
0.87	1.67	1.21	BG071394	Fgfr1	Fibroblast growth factor receptor-like 1
1.37	1.60	1.08	BG084874	Fbxo3	F-box only protein 3
1.30	0.10	0.94	BG072695	Erh	Enhancer of rudimentary homolog
1.12	1.70	0.40	BG072453	Ephx1	Epoxide hydrolase 1, microsomal
2.67	2.44	2.11	BG066167	Eif4enif1	Eukaryotic translation initiation factor 4E nuclear import factor 1
0.18	1.16	0.83	BG069521	Efhd1	EF hand domain containing 1
1.68	0.74	1.27	BQ551978	Ebf3	Early B-cell factor 3
1.22	0.45	1.22	BQ550589	Dppa4	Developmental pluripotency associated 4 , transcript variant 1
0.82	1.44	1.08	BG079268	Dnajc11	DnaJ homolog, subfamily C, member 11
0.92	1.71	1.09	BG082508	D2Ertd750e	DNA segment, Chr 2, ERATO Doi 750, expressed
1.32	0.86	0.59	BG071679	D19Ertd678e	DNA segment, Chr 19, ERATO Doi 678, expressed
1.68	0.56	1.84	BG068599	D11Ertd461e	DNA segment, Chr 11, ERATO Doi 461, expressed
0.98	1.01	1.21	BG085306	Cox6c	Cytochrome c oxidase, subunit VIc
0.31	2.04	0.98	BG068207	Comtd1	Catechol-O-methyltransferase domain containing 1
0.17	0.78	1.64	BG068414	Col25a1	Procollagen, type XXV, alpha 1 , transcript variant 1
1.12	1.29	0.45	BQ552575	Chd9	Chromodomain helicase DNA binding protein 9
1.27	3.93	1.16	BG079080	C77032	Guanine nucleotide binding protein-like 3 , transcript variant 1
1.85	2.40	2.44	BG071124	C230072F16Rik	RIKEN cDNA C230072F16 gene
1.17	1.59	0.57	BQ551272	BC058638	Leucine zipper, down-regulated in cancer 1-like
0.55	0.60	1.05	BG066348	BC031407	GATA zinc finger domain containing 2A

1.01	2.55	1.38	BG066773	B4galt6	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6
1.03	1.32	1.23	BG070349	B430306D02Rik	TAF1 RNA polymerase II, TATA box binding protein -associated factor
0.95	0.65	0.81	BG064502	AW544865	Expressed sequence AW544865
1.26	1.37	1.30	BG064252	AW494914	DEAH box polypeptide 57
0.88	2.55	2.48	BG066708	AU020772	Expressed sequence AU020772
1.43	1.62	0.81	BG066388	Atrx	Alpha thalassemia/mental retardation syndrome X-linked homolog
0.90	0.67	0.64	BG082324	Ascc1	Activating signal cointegrator 1 complex subunit 1
2.03	1.94	1.58	BG065639	Ap1gbp1	AP1 gamma subunit binding protein 1
1.58	0.47	1.84	BQ552281	Anxa6	Annexin A6
1.27	1.88	1.83	BQ550700	Ankrd28	Ankyrin repeat domain 28
0.95	1.36	2.07	BG079065	Adam15	A disintegrin and metallopeptidase domain 15
2.09	0.38	1.54	BQ550744	A030012M09Rik	RIKEN cDNA A030012M09 gene
1.07	1.91	1.35	BG065753	9130011E15Rik	RIKEN cDNA 9130011E15 gene
0.35	1.47	1.09	BQ551101	9030405D14Rik	RIKEN cDNA 9030405D14 gene
1.57	1.17	0.48	BQ551201	5830417I10Rik	RIKEN cDNA 5830417I10 gene
0.89	0.81	1.28	BQ552642	4930406H16Rik	RIKEN cDNA 4930406H16 gene
1.67	1.52	1.50	BQ551228	4632407F12Rik	RIKEN cDNA 4632407F12 gene
2.29	1.76	2.16	BG066120	4432411E13Rik	Hyperplastic discs protein
1.05	1.52	0.92	BG083609	425O18-1	CD320 antigen
1.06	0.41	0.87	BQ551334	3526402J09Rik	RIKEN cDNA 3526402J09 gene
0.72	2.07	1.64	BG066489	3300001M20Rik	MKIAA1153 protein
1.37	1.55	2.01	BG065616	1700022I11Rik	RIKEN cDNA 1700022I11 gene
-0.62	-0.41	0.45	BG066665	1700017B05Rik	RIKEN cDNA 1700017B05 gene
1.30	1.03	2.19	BG069904	1190005F20Rik	RIKEN cDNA 1190005F20 gene
2.03	1.08	1.88	BG068973	1110064P04Rik	RIKEN cDNA 1110064P04 gene
0.55	1.56	1.21	BG068171	1110005A23Rik	RIKEN cDNA 1110005A23 gene
0.52	3.30	1.72	BG066155	EST	
2.02	1.06	2.22	BG065992	EST	
2.03	-0.07	1.92	BG070515	EST	
1.72	1.20	2.33	C76156	EST	
0.66	1.70	0.87	BQ550977	EST	
1.66	1.45	2.02	BG065651	EST	
1.61	1.11	2.15	BG066527	EST	
2.45	2.95	1.29	BG068645	EST	

2.42	0.62	1.09	BQ551745	EST
0.77	0.67	0.94	BG079167	EST
1.46	2.30	1.26	BG079313	EST
1.02	1.85	1.15	BG069649	EST
0.23	1.13	0.94	BG070093	EST
1.34	2.36	1.61	BG068994	EST
0.53	1.29	0.63	BG063636	EST
0.86	0.67	1.84	BG083742	EST
3.14	0.51	2.54	BG068312	EST
2.26	1.23	1.63	AU023571	EST
1.95	0.64	2.09	BG078447	EST
2.67	0.69	2.31	BG063401	EST
1.74	0.22	1.88	BG066523	EST
1.84	1.24	2.14	BG070493	EST
2.05	0.91	2.17	BG064219	EST
2.98	0.76	2.34	BG066611	EST
1.44	0.47	2.09	BG070409	EST
1.68	0.93	1.78	BG065911	EST
1.35	1.73	2.12	BG066399	EST
3.02	1.77	2.21	BG065593	EST
1.98	2.71	2.22	BG065813	EST
2.11	0.90	1.82	BG065083	EST
1.19	2.59	2.60	BG065589	EST
1.32	0.90	1.78	BG067875	EST
1.76	1.49	2.21	BG071434	EST
1.95	0.57	1.84	AU040924	EST
1.18	1.56	1.76	AU014677	EST
1.21	0.85	1.95	BG063665	EST
0.84	1.13	1.63	BG063260	EST
2.14	1.77	1.88	C79973	EST
1.12	1.31	1.79	BG082228	EST
2.12	0.74	2.20	BG071134	EST
1.72	1.11	2.12	BG068428	EST
-0.61	1.64	-0.29	BG086711	EST
0.36	1.66	0.91	BG066831	EST
0.97	1.66	1.67	BG065371	EST
0.32	1.54	1.36	BG068069	EST

1.58	2.00	1.49	BG066122	EST
1.56	1.88	1.39	AU040661	EST
1.54	1.68	1.16	BG068983	EST
0.84	2.74	0.72	BG068899	EST
0.87	2.26	1.41	BG068902	EST
0.07	1.83	0.20	BQ552472	EST
1.15	3.04	1.80	BG069631	EST
0.49	1.62	0.39	BG065615	EST
1.53	1.76	1.17	AW544771	EST
1.16	1.03	1.52	BG066561	EST
0.74	0.31	0.85	BG068055	EST
1.58	0.42	0.93	AW546560	EST
1.52	-0.22	1.29	BG070618	EST
1.09	0.45	0.96	C80485	EST
0.98	0.86	1.50	BG064673	EST
1.86	0.45	1.48	BG073336	EST
1.54	1.01	1.07	BG072022	EST
1.94	1.11	1.37	BG065892	EST
1.88	1.31	1.30	BG065822	EST
1.67	0.88	1.02	BG066659	EST
1.69	0.10	0.98	BG065910	EST
1.50	0.47	0.80	BG072149	EST
0.41	1.06	0.83	BQ550401	EST
1.22	1.43	0.85	BG074021	EST
0.92	1.14	0.85	BG064947	EST
1.09	1.20	0.93	BG072204	EST
1.61	1.41	0.99	BG072441	EST
0.62	1.05	1.01	BG069522	EST
1.07	1.01	1.21	BG066530	EST
0.98	1.28	1.25	BG064716	EST
1.49	0.17	1.31	AU040439	EST
0.75	1.35	1.37	BG067162	EST
1.84	0.78	1.40	BG071522	EST
0.93	1.21	1.46	BG063834	EST
0.42	0.38	1.47	BG070769	EST
0.53	0.87	1.48	BQ552391	EST
0.94	0.42	-0.39	BG067939	EST

2.12	0.75	0.28	BG062938	EST	
0.43	1.22	0.21	BG064292	EST	
0.95	1.28	0.18	BQ550345	EST	
-2.33	-0.25	-1.40	BG075897	Zfx	Zinc finger protein X-linked
-0.62	0.02	-0.68	BG067234	Zfp422-rs1	Zinc finger protein 422, related sequence 1
-1.40	-1.27	-1.55	BG088701	Ypel5	Yippee-like 5
-2.22	-4.70	-2.18	BG075867	Wdr5b	WD repeat domain 5B
-1.64	-1.51	-1.30	BG080472	Wdr5	WD repeat domain 5
-1.10	-0.87	-2.51	BG080565	Wbscr21	Abhydrolase domain containing 11
-1.43	-1.47	-1.86	BG078001	Ube1x	Ubiquitin-activating enzyme E1, Chr X
-2.73	-0.35	-2.78	BG064620	Trmt1	TRNA 5-methylaminomethyl-2-thiouridylate methyltransferase
-2.62	-1.18	-1.68	BG067444	Trim46	Tripartite motif protein 46 , transcript variant 1
-1.28	-0.72	-2.26	BG088359	Tomm20	Translocase of outer mitochondrial membrane 20 homolog
-1.57	-0.94	-1.80	BG067399	Tmod2	Tropomodulin 2
-1.24	-1.27	-1.06	BG087083	Tde1	Tumor differentially expressed 1
-1.95	-1.23	-1.97	BG078075	Stag2	Stromal antigen 2
-1.49	-0.92	-1.23	AW538113	Slc25a19	Solute carrier family 25 , member 19
-1.86	-3.64	-1.78	BG065547	Sf3a3	Splicing factor 3a, subunit 3
-1.50	-1.01	-1.07	BG088179	Setdb1	SET domain, bifurcated 1
-1.64	-4.31	-1.91	BG070053	Serpina1e	Serine peptidase inhibitor, clade A, member 1e
-1.71	-0.68	-1.83	BG064675	Sdf4	Stromal cell derived factor 4
-1.48	-1.33	-0.45	BG088740	Sart3	Squamous cell carcinoma antigen recognized by T-cells 3
-1.54	-0.66	-1.31	BG087837	Ruvbl2	RuvB-like protein 2
-2.67	-1.78	-1.74	BG067455	Rps6kb1	Ribosomal protein S6 kinase, polypeptide 1
-1.46	-0.45	-1.29	BG087931	Rhoa	Ras homolog gene family, member A
-0.79	-0.79	-1.32	BG075399	Rbms3	RNA binding motif, single stranded interacting protein
-0.99	-0.28	-1.18	AW553963	Rbm19	RNA binding motif protein 19
-1.00	0.22	-0.86	BG085912	Rad50	RAD50 homolog
-0.66	-1.14	-0.99	BG074549	Rab35	RAB35, member RAS oncogene family
-3.33	-1.08	-0.60	BQ552156	Rab14	RAB14, member RAS oncogene family
-1.89	-0.32	-2.40	BG064866	Prps1	Phosphoribosyl pyrophosphate synthetase 1
-2.63	-0.06	-2.05	BG064798	Ppil2	Peptidylprolyl isomerase -like 2
-1.58	-1.82	-0.90	BG067355	Poll	Polymerase , lambda
-1.89	-0.72	-2.26	BG064799	Polg	Polymerase , gamma
-1.10	-1.17	-1.97	BG078107	Plp2	Proteolipid protein 2
-1.37	-0.56	-1.57	BG078775	Pias1	Protein inhibitor of activated STAT 1
-1.21	-0.89	-1.00	BG087909	Phka2	Phosphorylase kinase alpha 2

-1.08	-0.59	-0.92	BG075801	Phf1	PHD finger protein 1
-2.41	-0.21	-2.76	BG064642	Pcyt1a	Phosphate cytidyltransferase 1, choline, alpha isoform
-1.57	-1.53	-1.58	BG088487	Pcbp4	Poly binding protein 4
-2.62	-0.67	-2.63	BG064599	Pappa	Pregnancy-associated plasma protein A
-4.57	-3.19	-3.07	AW557129	Papola	Poly polymerase alpha
-0.94	-4.72	-1.66	BQ551813	Odz4	Odd Oz/ten-m homolog 4
-2.07	-0.61	-1.32	BG088180	Nf2	Neurofibromatosis 2
-0.47	-0.89	0.27	BG072955	Myo5a	Myosin Va
-2.43	-0.89	-1.02	BG074317	Mtus1	Mitochondrial tumor suppressor 1
-0.44	-0.76	-1.42	BG072800	MTERF	Mitochondrial transcription termination factor 1
-1.52	-0.75	-1.07	BG074344	Msln	Mesothelin
-1.14	-0.83	-0.93	BG080710	MGC65558	RIKEN cDNA 4933439C20 gene
-2.09	-0.53	-1.49	BG075896	Mfhas1	Malignant fibrous histiocytoma amplified sequence 1
-1.67	-1.78	-1.00	BQ551517	Meis1	Myeloid ecotropic viral integration site 1
-2.69	-1.00	-3.02	BG064664	Mbc2	Membrane bound C2 domain containing protein
-1.33	-0.03	-1.53	BG075866	Mad2l2	MAD2 mitotic arrest deficient-like 2
-2.57	-0.96	-1.47	BG067456	Lyzs	Lysozyme
-2.14	-0.38	-2.47	BG064854	Lrp2	Low density lipoprotein receptor-related protein 2 LRP2
-0.92	-0.92	-0.73	C81600	Lats1	Large tumor suppressor 1
-1.61	-0.88	-1.37	BG080488	Kns2	Kinesin 2 , transcript variant a
-1.11	-2.06	-0.99	BG064062	Klf4	Kruppel-like factor 4
-0.81	-1.09	-0.87	BG076207	Jmjd1c	MKIAA1380 protein
-1.32	-1.99	-1.31	BG080552	Insig1	Insulin induced gene 1
-0.70	-1.35	-1.28	BG075852	Inpp5a	Inositol polyphosphate-5-phosphatase A
-1.38	-0.65	-1.64	AW557873	Idb3	Inhibitor of DNA binding 3
-0.66	-1.04	-1.04	BG076176	Hspg2	Perlecan
-1.98	-2.23	-1.89	BG064250	Herc1	Hect (carboxyl terminus) domain and RCC1 -like domain 1
-1.15	-1.84	-1.29	BG080248	Hectd1	HECT domain containing 1
-1.93	-1.35	-2.08	BG063859	Hcfc1	Host cell factor C1
-0.94	-0.05	-1.22	BG072757	Gspt1	G1 to S phase transition 1
-2.20	-2.08	-1.15	BG075963	Gpihbp1	HBP1 mRNA for high density lipoprotein binding protein 1
-2.16	0.04	-0.97	BG067843	Gna14	Guanine nucleotide binding protein, alpha 14
-4.91	-4.70	-5.27	BG088251	Fmip	Fms interacting protein
-0.34	-1.20	-1.12	BG075855	Fchsd2	FCH and double SH3 domains 2
-1.34	-1.89	-1.84	BG064030	F3	Coagulation factor III
-1.63	-1.77	-1.75	BG067420	Elk4	ELK4, member of ETS oncogene family
-0.64	-2.04	-4.01	BG076103	Eif3s3	Eukaryotic translation initiation factor 3, subunit 3

0.47	-0.12	-0.05	BG063097	Ehd1	MPAST1
-1.35	-1.64	-0.55	BG062947	E130307C13	Hypothetical protein E130307C13
-3.22	-2.24	-2.22	BG066834	E030041M21Rik	RIKEN cDNA E030041M21 gene
-1.09	-0.80	-0.94	BG075865	Dscr1I2	Down syndrome critical region gene 1-like 2
-1.23	-0.90	-1.51	BG087920	Dlst	Dihydrolipoamide S-succinyltransferase
-4.44	-6.54	-0.62	BQ552147	Dkk2	Dickkopf homolog 2
-2.38	-1.72	-2.03	BG080018	D8Erttd325e	DNA segment, Chr 8, ERATO Doi 325, expressed
-1.48	-1.37	-0.87	BG063307	D5Wsu178e	DNA segment, Chr 5, Wayne State University 178, expressed
					DNA segment, Chr 11, ERATO Doi 730, expressed , transcript variant 1
-1.37	-1.07	0.12	BG082899	D11Erttd730e	
-1.89	-1.35	-1.04	BG063108	D10Wsu93e	Methyl-CpG binding domain protein 6
-0.83	-2.69	-2.39	BG082948	Cul1	Cullin 1
-3.20	-1.96	-2.56	BG063848	Csh1	Chorionic somatomammotropin hormone 1
-1.01	-0.39	-0.75	BG075864	Col6a2	Procollagen, type VI, alpha 2
-1.46	-0.36	-1.39	BG078313	Cnot1	CCR4-NOT transcription complex, subunit 1
-2.32	-0.31	-1.38	BG074339	MKIAA0593	MKIAA0593 protein
-1.75	-1.85	-1.27	BG067357	Cnn1	Calponin 1
-0.79	-1.02	-1.29	BG079988	Ckmt1	Creatine kinase, mitochondrial 1, ubiquitous
-1.83	-1.27	-2.59	BG064644	Ceacam9	CEA-related cell adhesion molecule 9
-1.26	-0.99	-1.26	BG082990	Cdc42bpb	MKIAA1124 protein
-3.58	-3.37	-2.56	BG069986	Ccna2	Cyclin A2
-1.50	-0.43	-0.98	BG078772	Ccdc2	Coiled-coil domain containing 2
-1.93	-0.03	-0.93	BG075961	C030048B08Rik	RIKEN cDNA C030048B08 gene
-0.50	-1.05	-1.18	BG087065	Btrc	Beta-transducin repeat containing protein
-1.76	-0.59	-1.64	BG076130	BC063749	MKIAA1754 protein
-7.07	-7.35	-1.03	BG069923	BC002216	CDNA sequence BC002216
-0.64	-0.58	-0.16	BG075229	Atrnl1	Attractin like 1
-3.70	-3.08	-3.51	BG075876	Atp9a	ATPase, class II, type 9A
-1.05	-1.32	-1.02	C86857	Atp6v1c1	ATPase, H+ transporting, V1 subunit C, isoform 1
-1.07	-0.51	-1.38	BG088532	Arl10c	ADP-ribosylation factor-like 10C
-1.16	-1.31	-2.12	AW539206	Apg7l	Autophagy-related 7
-1.64	-1.16	-2.40	BG064654	Alg5	Asparagine-linked glycosylation 5 homolog
-0.47	-1.31	0.20	BG072945	Alcam	Activated leukocyte cell adhesion molecule
-2.54	-2.60	-3.29	BG079989	Alb1	Serum albumin
-0.99	-1.70	-1.75	BG064643	AI256711	Expressed sequence AI256711
-2.91	0.24	-1.25	BG080706	Acpl2	Acid phosphatase-like 2
-0.83	-1.01	-1.17	BG074711	A530057A03Rik	MFLJ00202 protein

-0.52	-1.78	-2.06	BG088481	A230072I16Rik	RIKEN cDNA A230072I16 gene
0.38	-0.47	0.16	BG063020	9330177P20Rik	Zinc finger protein 258
-1.01	-1.03	-1.45	BG064997	5830472M02Rik	RIKEN cDNA 5830472M02 gene
0.02	-1.26	0.35	BG067988	5031400M07Rik	RIKEN cDNA 5031400M07 gene
-0.26	0.00	-0.24	BG075087	4933427D14Rik	MKIAA0753 protein
-0.64	-0.19	-1.17	BG076170	4932417I16Rik	RIKEN cDNA 4932417I16 gene
-1.14	-2.04	-1.21	BG080463	4732460K03Rik	PEST-containing nuclear protein
-3.31	-1.25	-0.71	BG069932	4632404H22Rik	RIKEN cDNA 4632404H22 gene
-1.84	-1.29	-2.70	BG078065	2810475A17Rik	Transmembrane protein 48
-1.75	-2.12	-1.68	BG067546	2310067B10Rik	RIKEN cDNA 2310067B10 gene
-0.66	-0.40	-0.84	BQ552662	2310061A22Rik	Golgi transport 1 homolog B
-2.63	-0.98	-0.94	BQ551673	1810073N04Rik	RIKEN cDNA 1810073N04 gene
-1.46	-3.08	-2.76	AW557010	1700065A05Rik	RIKEN cDNA 1700065A05 gene
-1.38	-0.84	-0.95	AW552972	1300002A08Rik	RIKEN cDNA 1300002A08 gene
-0.57	-0.96	-1.06	BG087957	1110028E10Rik	Solute carrier family 44, member 2
-1.24	-1.17	-1.35	BG075409	1110007C02Rik	RIKEN cDNA 1110007C02 gene
-2.20	-2.32	-1.73	BG067378	EST	
-2.03	-1.67	-2.82	BG067204	EST	
0.28	-0.87	0.35	BG062932	EST	
-1.40	-1.40	-1.28	BG075804	EST	
-1.61	-1.25	-1.51	BG065393	EST	
-0.22	-0.16	-1.06	BQ551495	EST	
-1.38	-0.32	-0.82	BG087293	EST	
-0.96	-0.65	-0.22	BG068285	EST	
-1.79	-1.30	-1.26	BG080498	EST	
-2.03	-1.08	-1.22	BQ552379	EST	
0.14	-1.13	-0.99	BG075847	EST	
-0.69	-1.57	-0.80	BG067407	EST	
-0.17	-1.40	-1.25	BG077341	EST	
-1.92	-1.22	-1.98	BG074340	EST	
-1.08	-0.38	-2.17	BI076577	EST	
-1.67	-2.54	-2.63	BG066814	EST	
-1.37	-1.45	-1.93	BG074385	EST	
-1.28	-1.12	-1.56	BG075410	EST	
-2.34	-1.93	-2.47	BG069683	EST	
-3.52	-2.25	-2.16	BG067391	EST	
-1.20	-1.83	-2.71	BG067561	EST	

-1.29	-1.78	-1.61	AW557442	EST
-1.68	-1.47	-1.59	BG067201	EST
-2.06	-2.24	-2.20	BG066825	EST
-1.34	-0.83	-1.79	BG073093	EST
-1.16	-1.32	-1.97	AW536084	EST
-0.87	-2.62	-1.98	BG063953	EST
-2.79	-1.27	-2.02	BG078783	EST
-1.81	-1.16	-1.80	BI076824	EST
-1.05	-2.28	-1.75	AW538866	EST
-0.73	-1.04	-1.97	BG064787	EST
-0.70	-4.18	-1.10	BG064944	EST
-0.69	-2.29	-1.48	BG064011	EST
-0.99	-1.54	-1.17	BI076786	EST
-0.91	-2.00	-0.53	AW557243	EST
-1.08	-1.76	-1.11	AW546939	EST
-0.86	-1.50	-1.30	AW544531	EST
-2.58	-0.26	-1.02	BG075952	EST
-1.93	0.34	-1.06	BG072733	EST
-1.60	-1.08	-1.20	BG067157	EST
-0.92	-0.02	-0.86	BG076194	EST
-1.15	-0.75	-1.31	AW557840	EST
-1.35	-0.86	-1.18	AW557899	EST
0.30	-0.55	-0.26	BG068363	EST
-1.40	-0.46	-1.46	BG075339	EST
-1.43	-1.05	-1.35	BG074374	EST
-0.58	-0.77	-1.33	BG076380	EST
-1.35	-1.08	-1.24	AW555179	EST
-1.38	-1.19	-1.19	AW543498	EST
-1.39	-0.22	-1.19	AW554900	EST
-1.07	-0.31	-1.14	AW554541	EST
-0.57	-0.86	-1.04	AW555717	EST
-0.64	-0.72	-1.02	BG073655	EST
-0.33	-0.98	-1.00	BG088706	EST
-0.75	-0.94	-1.00	AW556995	EST
-0.68	-0.33	-0.91	BG073160	EST
-1.09	-0.86	-0.90	BG075822	EST
-1.18	-0.92	-0.90	AW547864	EST

-0.96	-1.06	-0.88	BG073267	EST
-1.40	-1.36	-0.81	BG068274	EST
-0.93	-1.00	-0.73	BG075669	EST
-0.79	-1.25	-0.71	AW556499	EST
-1.45	-1.00	-0.59	BG074289	EST
-0.51	-0.61	-0.48	AW557368	EST
-0.96	-1.05	-0.34	BG076308	EST
-0.35	-0.37	-0.23	BG088286	EST
0.84	0.23	-0.22	BG066920	EST
1.02	-0.40	0.41	AU023080	EST

CEREBELLUM

Z-ratio	Z-ratio	Z-ratio	Acc	Symbol	Name
CR-6M-F/M	CR-16M-F/M	CR-24M-F/M			
0.75	0.92	-0.60	BQ550314	Yeats4	YEATS domain containing 4
0.29	0.62	-0.34	BG070995	Slc35e3	Solute carrier family 35, member E3
0.69	0.91	0.17	BQ551051	Prune	Prune homolog
0.88	3.87	1.91	BQ551635	Ppp2r5e	MKIAA4006 protein
0.17	3.11	2.16	BQ551521	Phip	Ndrp mRNA for neuronal differentiaion related protein
0.16	1.12	2.05	BQ550069	Irs3	Insulin receptor substrate 3
1.34	0.81	1.14	BQ552002	BC057079	CDNA sequence BC057079
2.76	3.60	2.86	BG076053	Apbb2	Amyloid beta precursor protein-binding, family B, member 2
0.07	2.32	2.04	BG076712	A2m	Alpha-2-macroglobulin
4.69	2.85	2.23	BQ551363	9330182L06Rik	RIKEN cDNA 9330182L06 gene
4.48	1.35	2.40	BG070181	8430423A01Rik	JC7
0.37	1.04	2.02	BQ550807	6430596G11Rik	Premature mRNA for mKIAA1722 protein
2.01	1.94	2.11	BQ552166	EST	
3.76	4.72	4.25	BG069837	EST	
1.15	1.68	1.22	BG064527	EST	
-0.69	-1.27	-0.55	BG087064	Rpl35a	Ribosomal protein L35a
					Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent
-0.92	-1.37	-0.80	BG066755	Nfatc2ip	2 interacting protein
-1.19	-1.16	-1.19	BG071516	Guk1	Guanylate kinase 1
					ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit
-0.30	-1.16	-0.40	BG073437	Atp5b	

-0.27	-3.03	-2.19	BG066146	EST
-0.43	-1.78	-0.35	BG086382	EST

STRIATUM

Z-ratio	Z-ratio	Z-ratio	Acc	Symbol	Name
CR-6M-F/M	CR-16M-F/M	CR-24M-F/M			
-0.11	2.66	1.64	BQ552684	EST	
1.27	0.85	0.90	BQ551985	EST	
-0.03	-0.55	-0.18	BQ550357	Tpr	Translocated promoter region
-0.50	-2.06	-1.79	BG073458	Top2b	Topoisomerase II beta
-1.42	-1.78	-0.98	BG063207	Sh3bgrl2	SH3 domain binding glutamic acid-rich protein like 2
-0.91	-2.78	-0.98	BG069793	Pcd10	Programmed cell death 10
0.52	-1.37	-0.47	BG081608	Nup37	Nucleoporin 37
0.68	-0.15	-0.39	BG069218	LOC384077	PREDICTED: Mus musculus Unknown
					Eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked
-2.58	-2.00	-0.30	BG069770	Eif2s3y	
-1.10	-1.52	-1.63	BG065510	2810421I24Rik	RIKEN cDNA 2810421I24 gene
-0.51	-0.76	-1.72	BQ550237	1500031L02Rik	RIKEN cDNA 1500031L02 gene
-0.50	-0.76	-0.14	BG070876	1110007C24Rik	Transmembrane protein 57

SPINAL CORD

Z-ratio	Z-ratio	Z-ratio	Acc	Symbol	Name
CR-6M-F/M	CR-16M-F/M	CR-24M-F/M			
0.64	0.08	-0.08	BG085958	Wwp2	Ribosomal protein S26
1.55	0.58	0.74	BG078505	Snta1	Syntrophin, acidic 1
6.22	2.39	-0.05	BG087385	Rad18	RAD18 homolog
1.00	0.68	1.00	BG077050	Prp19	PRP19/PSO4 homolog
-0.22	1.14	0.74	C80566	Plrg1	Pleiotropic regulator 1, PRL1 homolog
0.35	0.43	1.37	BG072249	Park2	Parkin
0.09	-0.21	0.32	BG062953	Nola1	Nucleolar protein family A, member 1
0.10	-0.65	0.89	BG068957	Mtus1	Mitochondrial tumor suppressor 1
0.33	-0.67	1.03	BQ552279	Foxp1	Forkhead box P1

0.52	0.98	0.39	BG073691	Fip111	FIP1 like 1
1.32	0.74	1.37	BG077082	Fbxl5	F-box and leucine-rich repeat protein 5
1.33	-0.98	0.59	BG076418	ElaC2	ElaC homolog 2
0.42	0.64	0.74	BG071244	Ehd3	EH-domain containing protein 2
0.25	0.30	0.31	BG063097	Ehd1	MPAST1
0.82	-0.19	0.32	BG077091	D11ErtD333e	DNA segment, Chr 11, ERATO Doi 333, expressed
0.84	1.66	0.63	BG070738	Chst12	Carbohydrate sulfotransferase 12
0.98	1.00	1.39	BG063043	B230333C21Rik	RIKEN cDNA B230333C21 gene
1.02	1.53	1.28	BG067721	6720407G21Rik	Ring finger protein 170
0.73	0.54	1.11	BG088856	5730555F13Rik	RIKEN cDNA 5730555F13 gene , transcript variant 1
0.43	0.65	1.43	BG084366	2810452K22Rik	RIKEN cDNA 2810452K22 gene
0.13	2.23	-0.29	BG070141	EST	
1.48	0.50	0.84	BG067365	EST	
2.03	-0.05	1.06	BG068991	EST	
16.80	4.97	2.55	BG072479	EST	
1.42	-0.06	1.71	BG063042	EST	
3.20	1.11	0.70	BG071757	EST	
0.39	0.92	1.33	BG071590	EST	
1.40	0.39	0.94	C85066	EST	
0.17	0.36	0.88	BG071255	EST	
-0.82	-0.83	-1.23	BG076505	Trim62	Tripartite motif-containing 62
-1.45	-0.50	-0.76	BG075406	Tex10	Testis expressed gene 10
-0.42	-0.01	-0.87	BG074984	Sfpq	Splicing factor proline/glutamine rich
-0.26	-0.03	0.10	BG068853	Ppil4	Peptidylprolyl isomerase -like 4
-0.14	0.45	-0.11	BG068996	Pik3r1	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1
-0.37	-1.85	-1.89	BG081195	Phf3	PHD finger protein 3
-0.11	-0.62	-1.11	BG075177	Myst3	MYST histone acetyltransferase 3
-1.10	-1.01	-1.51	BG076618	Mtpn	Myotrophin
					UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-
8.39	-3.39	-5.61	BQ552161	Galnt4	acetylgalactosaminyltransferase 4
-1.91	-1.11	-1.45	BG075495	Eml4	Echinoderm microtubule associated protein like 4
-2.58	-0.88	-2.02	BG068185	Cenpc1	Centromere autoantigen C1
-1.37	-0.47	-1.28	AU022477	Bid	BH3 interacting domain death agonist
-1.75	-1.05	-1.21	BQ550449	2810423E13Rik	RIKEN cDNA 2810423E13 gene
-0.57	-0.22	-1.06	BG068104	EST	
-3.22	-1.41	-2.33	BG067107	EST	
-0.60	-5.24	-5.61	BQ551454	EST	

-0.23	0.63	-0.23	BG074890	EST
-0.95	-0.23	-1.20	BG086541	EST

TableS5d. Age-responsive genes that were reverted by CR in males compared to females

Notes. Blue color represents reversion of upregulated AAGs; Red color represents reversion of downregulated AAG.

24M-M-hippo-AAGs reverted by CR

Z-ratio	Z-ratio	Acc	Symbol	Name
24M-M-CR/Ad	AD-M-24M/16M			
-2.43	2.73	BG070986	Zfp609	Zinc finger protein 609
-1.95	2.08	BG069366	Upf2	UPF2 regulator of nonsense transcripts homolog
0.00	1.65	BQ552073	Ufd1l	Ubiquitin fusion degradation 1 like
-1.64	1.79	BG065688	Uba52	Ubiquitin A-52 residue ribosomal protein fusion product 1
-2.40	1.61	BG068016	Trerf1	Transcriptional regulating factor 1
-2.13	2.06	BG065592	Tcfcp2l3	Grainyhead-like 2
-1.65	2.31	BG065895	Stard13	Serologically defined colon cancer antigen 13
-2.56	2.23	C79706	Stam2	Signal transducing adaptor molecule 2
-2.10	1.73	BG071865	Srrm1	Serine/arginine repetitive matrix 1
-1.74	1.52	BG084414	Sp100-rs1	Sp100-rs1 mRNA, partial sequence
-2.24	2.16	BG070178	Snrp1c	U1 small nuclear ribonucleoprotein 1C
-2.21	1.83	BG066686	Sfxn2	Sideroflexin 2
-1.99	2.18	BG073529	Rnh1	Ribonuclease/angiogenin inhibitor 1
-1.71	2.12	BG082484	Rgs12	Regulator of G-protein signaling 12
-3.41	2.85	BG082817	Rb1	Retinoblastoma 1
-2.01	2.02	C76941	Ranbp5	RAN binding protein 5
-1.97	2.03	BG071194	Rab27a	RAB27A, member RAS oncogene family
-1.72	2.02	BG070824	Pzp	Pregnancy zone protein
-1.65	1.83	BG068625	Prdm10	PR domain containing 10
-1.54	1.77	BQ550137	Ppp1r7	Protein phosphatase 1, regulatory subunit 7
-1.71	1.90	BG068321	Pgm2	Phosphoglucomutase 2
-2.10	1.67	BG078872	Pfkfb2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
-1.71	1.65	BG066651	Pcca	Propionyl-Coenzyme A carboxylase, alpha polypeptide
-1.55	1.75	BG075119	Paplg	Poly polymerase gamma
-1.74	1.91	BG083198	Paip2	Polyadenylate-binding protein-interacting protein 2
-2.11	2.19	BG068751	Olf75-ps1	V1 olfactory receptor protein
-2.09	1.70	BG085034	Nup160	Nucleoporin 160
-2.12	2.25	BG067163	Nrp1	Neuropilin 1
-1.99	1.85	BG071222	Nhlrc2	NHL repeat containing 2
-2.06	1.57	BG064588	Nfat5	Nuclear factor of activated T-cells 5
-3.12	2.64	BG079049	MGC60818	Similar to hypothetical protein FLJ20397

-2.41	2.53	BG070588	Map1lc3b	Microtubule-associated protein 1 light chain 3 beta
-1.77	2.02	AU017683	Ltbr	Lymphotoxin B receptor
-1.59	1.69	BG066247	Lmo7	LIM domain only 7
-1.93	1.77	C76424	Lhfpl2	Lipoma HMGIC fusion partner-like 2
-2.16	2.05	BQ551582	Lass6	Longevity assurance homolog 6
-1.67	1.89	BG063499	Ktn1	Kinectin 1
-1.81	2.04	AU040688	Kpna4	Karyopherin alpha 4
-2.08	1.70	BG070797	Kctd4	Potassium channel tetramerisation domain containing 4
-1.62	1.50	AU043124	Gna13	Guanine nucleotide binding protein, alpha 13
-2.47	1.81	BG079093	Gltp	Glycolipid transfer protein
-2.07	2.08	BG066451	Ggps1	Geranylgeranyl diphosphate synthase 1
-1.90	1.77	BG065915	Etv6	Ets variant gene 6
-2.29	2.43	BG069356	Epb4.115	Erythrocyte protein band 4.1-like 5
-1.91	1.93	BQ550267	Ep400	E1A binding protein p400
-1.88	2.28	BQ550786	Eif4g1	Eukaryotic translation initiation factor 4, gamma 1
-3.32	2.39	BQ550597	Dub2a	Deubiquitinating enzyme 2A
-2.14	1.85	BG072223	Dst	Bpag1-e mRNA for bullous pemphigoid antigen 1-e
-2.99	2.49	BG081778	Dock4	MKIAA0716 protein
-2.46	1.95	BG066942	Dnmt3b	DNA cytosine methyltransferase 3b6
-2.36	2.30	BG065928	Dlg7	Discs, large homolog 7
-1.71	2.02	BG066896	Depdc6	DEP domain containing 6
-2.29	1.90	BG075447	Denr	Density-regulated protein
-3.25	2.06	BG069143	D230005D02Rik	RIKEN cDNA D230005D02 gene
-1.70	1.93	BG084134	Chst10	Carbohydrate sulfotransferase 10
-2.47	2.07	BG065916	Cdc14a	CDC14 cell division cycle 14 homolog A
-2.13	2.53	BG065918	Catna1	Catenin , alpha 1
-1.92	1.68	BG073814	C330023F11Rik	Saccharopine dehydrogenase
-2.47	2.59	BQ552246	C130032J12Rik	RIKEN cDNA C130032J12 gene
-1.71	1.78	BG069361	Brp16	Brain protein 16
-1.76	2.87	BG068715	Bhc80	PHD finger protein 21A
-2.50	2.41	BG070203	B3gnt1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1
-1.99	1.75	BG066708	AU020772	Expressed sequence AU020772
-2.12	1.74	BG065780	Atp6v0a2	ATPase, H+ transporting, lysosomal V0 subunit a isoform 2
-4.10	3.60	BG083351	Arhgap6	Rho-type GTPase-activating protein rhoGAPX-1
-1.99	1.82	BG070913	Ankrd25	Ankyrin repeat domain 25
-1.61	1.58	AU042892	9230106F14Rik	ATP-binding cassette, sub-family B (MDR/TAP), member 5
-1.71	2.36	BG070516	5730421E18Rik	RIKEN cDNA 5730421E18 gene

-2.17	2.36	BG068399	4930432O21Rik	RIKEN cDNA 4930432O21 gene
-1.75	1.61	BQ550610	4930403O06Rik	Transmembrane and coiled-coil domains 1
-2.22	1.84	BG071581	2810047L02Rik	RIKEN cDNA 2810047L02 gene
-1.66	1.75	BG071462	2810006K23Rik	RIKEN cDNA 2810006K23 gene
-1.75	1.63	BG065667	2700094F01Rik	RIKEN cDNA 2700094F01 gene
-2.07	2.55	BQ552100	2510027N19Rik	Non-SMC element 1 homolog
-1.96	1.89	BG067748	1810049O03Rik	Leucine rich repeat containing 8 family, member E
-1.80	1.51	BG071214	1810037I17Rik	RIKEN cDNA 1810037I17 gene
-1.80	2.07	BG063492	1110064N10Rik	Brix domain containing 2
-1.86	2.16	BG070867	0610011F06Rik	RIKEN cDNA 0610011F06 gene
-4.50	3.65	BG068075	EST	
-1.87	2.39	BG063092	EST	
-3.26	3.53	BG066339	EST	
-2.38	2.04	BG068670	EST	
-2.10	2.02	BG066683	EST	
-2.21	2.46	BG070561	EST	
-1.59	1.62	BG066362	EST	
-1.69	1.61	BG073476	EST	
-2.24	2.27	BG073795	EST	
-1.64	1.70	BG071455	EST	
-1.58	1.68	BQ550972	EST	
-2.22	2.29	BG070967	EST	
-1.63	1.76	BG068999	EST	
-1.89	1.80	BG071141	EST	
-2.01	2.03	BG071864	EST	
-2.17	1.82	BG068126	EST	
-2.22	2.19	BG070879	EST	
-1.90	2.41	AU016579	EST	
-3.61	2.70	BG065945	EST	
-1.67	2.09	AU046252	EST	
-1.89	2.35	BG066119	EST	
-3.74	4.02	BG068090	EST	
-2.12	1.88	C76711	EST	
-1.64	1.77	BG076725	EST	
-2.91	2.56	BG066276	EST	
-1.54	1.87	BG074626	EST	
-2.26	2.04	BG065989	EST	

-1.64	1.90	BG070466	EST
-2.18	2.15	BG083442	EST
-1.78	1.55	BG069343	EST
-2.17	1.69	BG067568	EST
-2.48	2.95	BG070970	EST
-3.59	3.50	BG066177	EST
-2.96	3.06	BG068752	EST
-2.72	2.04	BG081225	EST
-1.63	1.72	BG071937	EST
-1.51	1.65	BG066591	EST
-1.74	1.69	BG065924	EST
-4.45	3.80	BG068086	EST
-3.13	2.43	BG066300	EST
-1.58	1.70	BG066640	EST
-2.37	2.29	BG068668	EST
-2.28	1.80	BG075437	EST
-1.83	1.88	BG072304	EST
-1.98	1.66	BG071862	EST
-1.82	2.19	BG071170	EST
-2.08	1.54	C86319	EST
-2.52	1.78	BG066611	EST
-3.29	2.73	BG069141	EST
-1.71	1.68	BG067639	EST
-1.89	2.03	C78903	EST
-3.00	2.48	BG068189	EST
-2.12	1.69	BG070808	EST
-2.12	2.08	BG067603	EST
-3.44	3.24	BG065894	EST
-3.27	2.49	BG066288	EST
-2.78	1.86	C79740	EST
-1.70	2.19	BG076914	EST
-1.56	1.84	BG071263	EST
-2.31	1.69	BG070776	EST
-2.27	1.90	BG068312	EST
-2.75	2.54	BG065888	EST
-2.52	1.75	BG069005	EST
-1.64	2.03	BG072805	EST

-2.33	2.03	BG067308	EST	
-1.65	1.52	BG066912	EST	
-3.42	2.64	BG068775	EST	
-2.96	2.08	AU024687	EST	
-2.24	1.76	BG071206	EST	
-2.06	1.62	BG071153	EST	
-3.00	1.77	BG068682	EST	
1.61	-1.69	BG064042	Ywhag	3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
1.74	-1.93	BG069786	Ywhab	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
1.84	-1.57	BG086722	Uchl1	Ubiquitin carboxyl-terminal hydrolase PGP9.5
2.23	-1.65	BG078439	Trap1	TNF receptor-associated protein 1
1.93	-1.67	BG063877	Timm17a	Translocator of inner mitochondrial membrane 17a
1.56	-1.87	BG080816	Tgfb1i4	TSC22-related inducible leucine zipper 1b
2.08	-1.98	BG073668	Tfb1m	Transcription factor B1, mitochondrial
2.05	-1.62	BG063180	Tbrg4	Transforming growth factor beta regulated gene 4
2.30	-1.96	BG066777	Suhw4	Suppressor of hairy wing homolog 4
1.76	-1.64	BG077105	Spnb2	Spectrin beta 2
1.67	-1.54	BG074398	Sparcl1	SPARC-like 1
1.60	-1.64	BG063782	Smurf2	SMAD specific E3 ubiquitin protein ligase 2
1.58	-1.74	BG065166	Skb1	SKB1 homolog
1.68	-1.91	BG078617	Sf3b2	Splicing factor 3b, subunit 2
2.04	-2.15	BG069819	Setbp1	SET binding protein 1
1.51	-1.56	AW539298	Sars1	Seryl-aminoacyl-tRNA synthetase 1
1.73	-2.02	BG064438	Rod1	ROD1 regulator of differentiation 1 , transcript variant 1
1.81	-1.51	BG073320	Rga	Recombination activating gene 1 gene activation
1.64	-1.77	BG077488	Psemb4	Proteasome subunit, beta type 4
1.99	-2.09	BG078451	Ppia	Peptidylprolyl isomerase A
2.19	-2.51	BG065409	Pla2g6	Phospholipase A2, group VI
1.90	-1.78	AW557879	Pdzk1	Hydrophilic CFTR-binding protein CAP70
1.88	-2.06	BG078326	Pck2	Phosphoenolpyruvate carboxykinase 2
2.04	-2.41	BG078151	Oxsr1	Oxidative-stress responsive 1
1.68	-1.73	BG085840	Olfm1	Olfactomedin 1
1.51	-1.74	BG080961	Mdh1	Malate dehydrogenase 1, NAD
2.29	-1.76	BG063871	Mars2	Methionine-tRNA synthetase 2
1.58	-1.95	BG078449	Lnk	Linker of T-cell receptor pathways

1.56	-1.73	BG069785	Limd1	LIM domains containing 1
1.92	-1.92	BG069796	Klhl2	Kelch-like 2, Mayven
2.02	-1.57	BG077103	Jarid1a	Jumonji, AT rich interactive domain 1A
2.31	-2.27	AW544628	Itgb1	Integrin beta 1
2.01	-2.10	BG069832	Inpp5e	Inositol polyphosphate-5-phosphatase E
1.85	-2.15	BG069762	Il7	Interleukin 7
2.04	-1.57	BG078349	Igf2bp1	Insulin-like growth factor 2, binding protein 1
2.68	-2.18	AU023208	Gna14	Guanine nucleotide binding protein, alpha 14
2.59	-2.40	BG082755	E130209G04Rik	Ubiquitin protein ligase E3 component n-recognin 2
1.94	-1.80	BG067844	Dscaml1	Clone cDSL-19 Down syndrome cell adhesion molecule-like protein
2.26	-1.96	BG069855	Crip3	Cysteine-rich protein 3 , transcript variant TLP-B
2.13	-2.30	BG064770	Cct5	Chaperonin subunit 5
2.44	-2.12	BG076617	Calm1	Calmodulin 1
1.89	-1.62	BG064703	C330018L13Rik	U box domain containing 5
1.56	-1.55	BG078474	Brd8	Bromodomain containing 8
2.00	-1.79	BG077446	Braf	Braf transforming gene
2.19	-1.77	BG065113	Bcat1	Branched chain aminotransferase 1, cytosolic , transcript variant 2
2.48	-1.83	BG086439	Anxa2	Annexin A2
1.92	-1.76	BG077184	AI413782	Expressed sequence AI413782
1.99	-1.92	BG072752	Actg1	Actin, gamma, cytoplasmic 1
1.80	-2.11	BG063815	Acate2	Acyl-CoA thioesterase 9
1.77	-1.90	BG088856	5730555F13Rik	RIKEN cDNA 5730555F13 gene , transcript variant 1
2.41	-2.41	BG069820	5330431K02Rik	RIKEN cDNA 5330431K02 gene
2.44	-2.39	BG064832	4930542G03Rik	RIKEN cDNA 4930542G03 gene
3.45	-1.60	BG068558	4732496O08Rik	RIKEN cDNA 4732496O08 gene
2.20	-1.84	BG078092	2700083B06Rik	Interferon stimulated exonuclease gene 20-like 1
2.59	-2.60	BG069808	2410129E14Rik	RIKEN cDNA 2410129E14 gene
1.69	-1.50	AW538352	2310075A12Rik	RIKEN cDNA 2310075A12 gene
2.23	-1.84	BG065173	1700022N24Rik	Ring finger protein 185
1.60	-2.08	BG063865	1300002F13Rik	ERBB receptor feedback inhibitor 1
2.02	-2.02	AA408475	EST	
1.84	-1.73	BG064100	EST	
1.94	-1.85	BG065476	EST	
1.70	-1.90	BG078410	EST	
2.38	-2.10	BG082743	EST	
1.73	-1.63	BG077186	EST	
1.92	-1.65	BG077162	EST	

1.86	-1.50	BG086430	EST
1.81	-1.79	BG078495	EST
1.53	-1.63	AW538866	EST
2.03	-1.60	BG063139	EST
2.46	-2.36	BG065115	EST

24M-F-hippo-AAGs reverted by CR

Z-ratio	Z-ratio	Acc	Symbol	Name
24M-F-CR/Ad	AD-F-24M/16M			
-2.26	3.06	BG064443	EST	
2.00	-2.22	BG064166	Wdfy3	MKIAA0993 protein
1.54	-2.31	C80870	C130002K18Rik	RIKEN cDNA 2610207I05 gene (2610207I05Rik), mRNA
2.30	-2.58	BG070143	5730596K20Rik	RIKEN cDNA 5730596K20 gene (5730596K20Rik), mRNA
2.40	-2.60	BG065852	Rcor1	REST corepressor 1 (Rcor1), mRNA
				Histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>) (Hira), transcript variant 1, mRNA
1.57	-1.94	BG079103	Hira	
2.60	-1.91	BG077912	EST	
2.55	-2.29	BG069038	EST	
2.00	-1.87	BG066604	EST	
1.69	-1.59	BG066523	EST	
1.51	-2.15	AU014963	EST	
1.62	-2.28	BG063486	EST	

TableS7a

Age-associated cortex genes common between the present study and previous mouse (Lee, et. al.) and human (Lu, et. al.) studies.

Gene Symbol	Gene Name
GFAP	Glial fibrillary acidic protein
ICAM2	Intercellular adhesion molecule 2
NDRG1	N-myc downstream regulated gene 1
VIM	Vimentin
FRAP1	FK506 binding protein 12-rapamycin associated protein 1

Notes. Red color represents upregulation; blue color represents downregulation.

TableS7b

Genes significantly affected by aging in the present study and the study of Lee et. al.

Acc	Symbol	Name
C76805	MyI4	Myosin, light polypeptide 4 (MyI4)
BQ551034	Bmp8b	Bone morphogenetic protein 8b (Bmp8b)
AW537663	Gspt1	G1 to S phase transition 1 (Gspt1)
BG077751	Phb	Prohibitin (Phb)
BG087410	Cd9	CD9 antigen (Cd9)
BG066498	Ppp1r2	Protein phosphatase 1, regulatory (inhibitor) subunit 2 (Ppp1r2)
BG073175	Tcf1	Transcription factor-like 1
AW544994	Limk1	LIM-domain containing, protein kinase (Limk1)
BG064965	Mtif2	Mitochondrial translational initiation factor 2 (Mtif2)

Notes. Red color represents upregulation; blue color represents downregulation.

TableS7c

Cerebellar genes significantly affected by aging in the present study and the study of Lee et. al.

Acc	Symbol	Name
BG065086	Usp46	Ubiquitin specific peptidase 46 (Usp46)
BG064918	Smarca4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
BG083256#	Tgfr3	Transforming growth factor, beta receptor III
BG070287*	Igh-6	Immunoglobulin heavy chain 6 (heavy chain of IgM)
AA409376*	Nfya	Nuclear transcription factor-Y alpha
BG081585*	Pigf	Phosphatidylinositol glycan, class F
BQ551960	Nos3	Nitric oxide synthase 3, endothelial cell (Nos3)
BG077611	Ctsz	Cathepsin Z

Note: # which shown the aging patten 4 in our aging dataset. * which represents the aging pattern 6 in our datasets
Red color represents upregulation; blue color represents downregulation.

TableS7d

Comparison of regulated genes between the mouse cortex and human cortex aging data.

Symbol	Name
Cacnb2	Calcium channel, voltage-dependent, beta 2 subunit (Cacnb2)
Gabrb3	Gamma-aminobutyric acid (GABA-A) receptor, subunit beta 3 (Gabrb3)
Ep400	E1A binding protein p400
Mef2c	Myocyte enhancer factor 2C
Rbbp4	Retinoblastoma binding protein 4 (Rbbp4)
Calm3	Calmodulin III (Calm3)
Txnip	Thioredoxin interacting protein
Plxnb1	PlexinB1
Pik3c2a	Phosphatidylinositol 3-kinase, C2 domain containing, alpha polypeptide (Pik3c2a)

Notes. Red color represents upregulation; blue color represents downregulation.