

**Table 2. Genes/ESTs whose expression was altered by MnTBAP****INCREASES**

<b>GenBank</b>	<b>Gene name</b>	<b>SEB</b>	<b>MnTBAP</b>
NM_007393	actin, beta, cytoplasmic	4974	15129
AA050769		5243	13571
AA666984		4699	10896
W83919		3179	8197
AK011593	RIKEN cDNA 2610028J07 gene	3319	7684
AA261028		1873	6578
D19392		1501	5558
AA673180		2099	5021
W17821		2029	4903
BB208355	ESTs, Highly similar to A30583 T-cell receptor delta chain precu	1088	4313
AA675026		1305	4276
NM_018738	interferon gamma induced GTPase	1038	3894
BF782297	DNA segment, Chr 17, Wayne State University 92, expressed	1598	3880
NM_011306	retinoid X receptor beta	-2937	3702
NM_007446	amylase 1, salivary	1318	3316
C78133		1381	3267
NM_011900	mannose-P-dolichol utilization defect 1	1075	2720
C79741	expressed sequence C79741	1009	2348
AK009844	clathrin, light polypeptide (Lcb)	809	2273
AA021930		881	2238
BB464776	ESTs	673	2153
D32200	helix-loop-helix transcription factor	915	2102
NM_013489	CD84 antigen	623	2050
L00654	Mus musculus mast cell protease-7 gene, complete cds	852	2015
BC016105	Mus musculus, clone MGC:27690 IMAGE:4921222, mRNA, cor	621	2002
AK012951	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	727	1933
NM_010916	nescient helix loop helix 1	693	1881
L31532	bcl2-alpha	617	1827
C78753	3' similar to Mus musculus ORR1a transposon-like element, clo	554	1822
L31532	bcl2-alpha	561	1759
NM_019949	ubiquitin-conjugating enzyme 8	397	1757
BC020078	Mus musculus, Similar to RIKEN cDNA 1700066C05 gene, clon	477	1720
NM_019949	ubiquitin-conjugating enzyme 8	564	1686
NM_021305	SEC61, alpha subunit 2 (S. cerevisiae)	699	1593
NM_007930	ectodermal-neural cortex 1	296	1560
W91120		503	1549
BC024462	Mus musculus, similar to Unknown (protein for IMAGE:3610257	524	1541
NM_133977	transferrin	302	1485
NM_008380	inhibin beta-A	632	1443
M30441	M30441 Mouse intronless potassium channel gene MK3	597	1423
W41826	W41826 mc65f06.r1 Mus musculus cDNA, 5' end	551	1393
NM_019711	RNA binding motif, single stranded interacting protein 2	198	1355
NM_008714	Notch gene homolog 1, (Drosophila)	80	1348
ET61286	Mus musculus anti-DNA immunoglobulin heavy chain variable re	425	1339
W35783	W35783 mc15b07.r1 Mus musculus cDNA, 5' end	469	1331
L22181	L22181 Mouse N-formyl peptide chemotactic receptor gene, cor	439	1264
NM_011579	T-cell specific GTPase	303	1256
U12565	defensin-like gene 4C-4	382	1255

NM_016660	high mobility group AT-hook 1	486	1222
NM_008795	PCTAIRE-motif protein kinase 3	213	1212
NM_007502	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide	522	1202
D00622	low density lipoprotein receptor-related protein associated protei	518	1193
BC017678	ral guanine nucleotide dissociation stimulator,-like 1	478	1191
ET61506	Mus musculus transcription factor Id1B (Id1B) mRNA, complete	223	1181
NM_007923	ELK4, member of ETS oncogene family	421	1181
C78246		319	1167
AK010554	guanine nucleotide binding protein (G protein), gamma transduc	466	1160
BC008989	Mus musculus, Similar to nuclear receptor subfamily 1, group D.	408	1152
AK018607	RIKEN cDNA 9130011E15 gene	361	1108
AK011557	RIKEN cDNA 2610025P08 gene	427	1094
AA061566		347	1058
W10082		393	1042
C78577	ESTs, Moderately similar to LPH RAT LACTASE-PHLORIZIN H	385	1034
NM_019781	peroxisomal biogenesis factor 14	49	1026
NM_133784	RIKEN cDNA 2310058J06 gene	260	985
AF263240	Down syndrome critical region homolog 1 (human)	416	979
BC017161	RIKEN cDNA 2010306G19 gene	306	961
BF120574	expressed sequence C81206	256	922
AA407599		358	884
M12815	Mouse T-cell receptor active gamma-chain V10.8B-J-C10.8 mR	382	884
BI658322	ESTs, Highly similar to T00361 hypothetical protein KIAA0678 [f	370	879
NM_010577	integrin alpha 5 (fibronectin receptor alpha)	241	790
AA080228		253	785
BF138536	EST X83313	289	773
D28530	protein tyrosine phosphatase, receptor type, S	210	752
NM_007795	cardiotrophin 1	110	721
NM_019759	dermatopontin	23	718
ET63482	Mus musculus synaptonemal complex protein 1 (Scp1) gene, e)	294	692
D50095	D50095 Mouse DNA for histamine H1 receptor, complete cds	125	685
AA409818	DNA segment, Chr 2, Wayne State University 58, expressed	227	685
X12729	Mouse (clone RAD11) T-cell receptor rearranged delta-chain mf	207	685
AF151110	constitutive photomorphogenic protein 1 (Arabidopsis)	179	683
M76987	Mouse alpha-globin transcription factor CP2 mRNA sequence	122	667
NM_030724	uridine-cytidine kinase 2	254	663
NM_030694	interferon induced transmembrane protein 3-like	286	660
AA104348		95	657
AK005205	RIKEN cDNA 2700089E24 gene	248	641
BC016230	Mus musculus, Similar to BCL2-associated athanogene 2, clone	254	639
AV254076	ESTs, Highly similar to T31099 myosin-RhoGAP protein, Myr 7	215	636
NM_008326	interferon inducible protein 1	145	629
NM_020009	FK506 binding protein 12-rapamycin associated protein 1	265	607
NM_011126	palate, lung, and nasal epithelium expressed transcript	255	594
NM_016757	WW domain binding protein 1	182	594
AJ278733	myosin, heavy polypeptide 4, skeletal muscle	238	588
NM_138600	DNA segment, Chr 18, Wayne State University 181, expressed	203	581
X96606	ovary testis transcribed	54	565
NM_010914	nuclear transcription factor-Y beta	229	564
NM_007855	dermis expressed 1	187	542
BI410554	DNA segment, Chr 16, ERATO Doi 36, expressed	107	529
NM_010313	guanine nucleotide binding protein, beta 5	189	523

NM_009605	adipocyte complement related protein of 30 kDa	179	522
J03458	filaggrin	133	519
ET61970	Mus musculus anti-DNA immunoglobulin light chain IgG, antibox	107	509
NM_017473	retinol dehydrogenase 7	61	504
NM_025946	RIKEN cDNA 2010100O12 gene	187	491
NM_026810	mutL homolog 1 (E. coli)	43	480
AK005067	calcium binding protein P22	193	472
W13112		77	464
ET61832	Mus musculus anti-DNA immunoglobulin heavy chain IgG mRNA,	161	450
BC026653	Mus musculus, clone IMAGE:4988271, mRNA, partial cds	190	441
NM_007996	ferredoxin 1	136	428
AK003407	RIKEN cDNA 1110004C05 gene	111	422
AA497657	ESTs	100	421
AK007743	RIKEN cDNA 1810041F13 gene	28	418
AK010101	RIKEN cDNA 2310068B06 gene	128	409
NM_016777	nuclear autoantigenic sperm protein (histone-binding)	150	394
BG067016	expressed sequence C80993	119	390
NM_008068	gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 6	155	383
AA120203		102	382
X69722	insulin receptor substrate 1	117	377
NM_018796	eukaryotic translation elongation factor 1 beta 2	156	370
NM_008363	interleukin 1 receptor-associated kinase	121	360
NM_011321	spermine binding protein	150	359
BF120858	neoplastic progression 3	62	340
AK011489	replication factor C (activator 1) 5 (36.5 kDa)	39	326
ET61617	Mus musculus 5E6 (5E6/Ly-49C) mRNA, complete cds.	129	312
M33467	dilute gene	124	311
ET61828	Mus musculus anti-DNA immunoglobulin heavy chain IgG mRNA,	110	305
NM_008706	NAD(P)H dehydrogenase, quinone 1	118	296
AK015641	Mus musculus adult male testis cDNA, RIKEN full-length enrich	33	295
NM_010107	ephrin A1	128	293
NM_016885	endomucin	25	282
AK011289	RIKEN cDNA 2310021G01 gene	116	279
ET61316	Mus musculus senescence marker protein-30 (SMP30) gene, p	112	276
AA015388		84	275
D19392		60	275
AK011097	RIKEN cDNA 2510042P03 gene	36	274
AK019543	RIKEN cDNA 4921528G01 gene	20	274
NM_027139	TAF9 RNA polymerase II, TATA box binding protein (TBP)-assoc	37	265
AK015640	RIKEN cDNA 4930487N19 gene	-31	258
AI036902	expressed sequence AI666798	109	255
NM_010390	histocompatibility 2, Q region locus 1	-21	253
ET62271	Mus musculus T cell receptor variable and J region mRNA, part	-96	243
AK012809	RIKEN cDNA 2810025E10 gene	85	239
AF453686	Mus musculus ELKL motif serine-threonine protein kinase 3 (En	66	234
NM_011314	serum amyloid A 2	94	233
NM_020047	tumor-associated calcium signal transducer 2	17	220
C80171	expressed sequence C80171	57	219
W54015		64	219
AA168759		38	213
BG966849	expressed sequence AW050213	-6	212
NM_011456	serine protease inhibitor 14	52	204

AK008264	inhibitor of DNA binding 1	22	203
BC005601	RIKEN cDNA 1110061A19 gene	80	197
NM_008939	protease, serine, 12 neurotrypsin, (motopsin)	79	187
AK012621	RIKEN cDNA 2700097O09 gene	60	185
NM_009888	complement component factor h	19	185
NM_008042	formyl peptide receptor-like 1	72	181
NM_026515	RIKEN cDNA 2810417H13 gene	49	177
W62058		39	175
AV297961	expressed sequence AA407887	68	172
BC006696	casein beta	65	166
NM_021516	MAP/microtubule affinity-regulating kinase 3	68	166
NM_013778	aldo-keto reductase family 1, member C13	43	160
BE572956	expressed sequence C81439	23	159
NM_009352	telomeric repeat binding factor 1	61	157
AA116410		19	153
AA138813		47	147
ET61833	Mus musculus anti-DNA immunoglobulin heavy chain IgG mRNA	6	145
AA419684		-32	140
AA140339		37	135
AA022064		46	131
NM_029814	RIKEN cDNA 2210412K09 gene	38	131
NM_053089	NMDA receptor-regulated gene 1	-2	124
W55727		-77	122
AK012326	RIKEN cDNA 2700038B03 gene	37	121
NM_013498	cAMP responsive element modulator	29	119
NM_023396	RIKEN cDNA 2410012A13 gene	-7	117
AK019451	eukaryotic translation initiation factor 1A	17	113
NM_008591	met proto-oncogene	-6	111
NM_013489	CD84 antigen	22	101
BG066461	expressed sequence C79246	42	101

#### DECREASES

Genbank	Gene Name	SEB	MnTBAP
W97321		13285	5110
AA072109		9858	3109
NM_010907	nuclear factor of kappa light chain gene enhancer in B-cells inhil	6159	3278
NM_013866	zinc finger protein 385	5894	2898
AK004554	actin-related protein 3 homolog (yeast)	5444	2628
NM_010365	general transcription factor II I	4978	2524
BC003707	SEC61, alpha subunit (S. cerevisiae)	4526	1210
BI653637	expressed sequence AI852829	4079	1939
M21050		3953	792
BC021473	CDP-diacylglycerol--inositol 3-phosphatidyltransferase (phospha	3838	1543
NM_019909	MHC (A.CA/J(H-2K-f) class I antigen	3634	1965
NM_008906	protective protein for beta-galactosidase	3219	1615
BB615967	ESTs, Weakly similar to ANK1 MOUSE ANKYRIN 1 [M.muscul	3195	1805
NM_018772	brain protein I3	2841	1247
NM_133937	RIKEN cDNA 6720456B07 gene	2793	1537
NM_008672	nucleosome assembly protein 1-like 4	2663	886

AA409750		2609	1154
NM_010286	glucocorticoid-induced leucine zipper	2597	1277
NM_007494	argininosuccinate synthetase 1	2569	1105
C77340	DNA segment, Chr 10, ERATO Doi 73, expressed	2549	1337
AJ131777	src-like adaptor protein	2430	627
BC011152	expressed sequence AW125446	2415	1304
NM_133206	zinc ring finger protein 1	2378	1299
NM_133697	RIKEN cDNA 1110003E01 gene	2350	1312
NM_011787	autocrine motility factor receptor	2207	1231
NM_023215	RIKEN cDNA 2500003M10 gene	2197	1181
BC024835	Mus musculus, clone IMAGE:5355658, mRNA	2184	725
NM_011390	solute carrier family 12, member 7	2087	184
NM_026552	actin related protein 2/3 complex, subunit 4 (20 kDa)	2012	923
NM_026145	RIKEN cDNA 4631401O15 gene	1983	1028
C78749	DNA segment, Chr 11, ERATO Doi 204, expressed	1981	789
NM_021538	coatamer protein complex, subunit epsilon	1944	1035
NM_013595	methyl-CpG binding domain protein 3	1849	913
BC024856	RIKEN cDNA 1700016A15 gene	1788	936
NM_030238	dynein, cytoplasmic, heavy chain 1	1765	820
AK011290	RIKEN cDNA 5730409F23 gene	1762	916
NM_025710	RIKEN cDNA 4430402G14 gene	1683	849
NM_030702	smt3-specific isopeptidase 1	1679	726
NM_018749	eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67 kI	1602	668
AK005267	RIKEN cDNA 1500016L11 gene	1578	808
AK003990	RIKEN cDNA 1110030L07 gene	1572	808
NM_015749	transcobalamin 2	1558	627
AK012154	phenylalanine-tRNA synthetase-like	1558	686
AK019874	RIKEN cDNA 5031419I10 gene	1554	337
BC004811	Mus musculus, clone IMAGE:3588242, mRNA, partial cds	1495	503
NM_023240	eukaryotic translation elongation factor 1 delta (guanine nucleoti	1495	345
BF180997	expressed sequence D18386	1484	676
NM_028784	RIKEN cDNA 1200014I03 gene	1457	829
W88176		1448	781
NM_011103	protein kinase C, delta	1446	740
NM_007406	adenylate cyclase 7	1409	764
NM_026219	RIKEN cDNA 2210415M14 gene	1336	651
AA415813	expressed sequence AA415813	1332	652
NM_010500	immediate early response 5	1283	722
NM_022310	heat shock 70kD protein 5 (glucose-regulated protein, 78kD)	1280	388
AA415488	expressed sequence AA415488	1279	651
NM_007932	endoglin	1274	635
NM_009279	signal sequence receptor, delta	1250	535
BC011391	upstream regulatory element binding protein 1	1246	584
NM_010286	glucocorticoid-induced leucine zipper	1232	476
NM_007948	excision repair cross-complementing rodent repair deficiency, $\alpha$	1219	590
NM_009048	RalBP1 associated Eps domain containing protein	1200	661
BC026689	Mus musculus, Similar to KIAA0310 gene product, clone IMAGE	1196	433
NM_026578	nucleolar protein family A, member 1 (H/ACA small nucleolar R1	1193	607
AA272183	ESTs, Highly similar to BAND 3 ANION EXCHANGE PROTEIN	1192	475
NM_021465	stromal antigen 2	1189	533
ET61635		1180	486
NM_138607	DNA segment, human DXS9928E	1151	505

NM_013671	superoxide dismutase 2, mitochondrial	1141	429
BC002196	RIKEN cDNA 2810442O16 gene	1140	335
BF532860	ESTs, Highly similar to E2BE RAT TRANSLATION INITIATION	1140	605
NM_011722	dynactin 6	1139	467
NM_017380	septin 9	1132	518
AW553439	ESTs, Weakly similar to A54602 microtubule-associated serine/	1113	507
U68543	immunoglobulin kappa chain variable 28 (V28)	1112	133
BI456439	expressed sequence AI854770	1103	503
BC011111	RIKEN cDNA 0610038P07 gene	1099	441
W57485		1089	555
NM_011738	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activa	1086	377
AK018452	RIKEN cDNA 8430430L24 gene	1084	424
AA146127		1081	543
BC027391	Mus musculus, clone MGC:36924 IMAGE:4945988, mRNA, cor	1078	517
BI150493	RIKEN cDNA 1810058I24 gene	1058	569
AK005213	RIKEN cDNA 1500011J06 gene	1055	558
AK005710	solute carrier family 25 (mitochondrial deoxynucleotide carrier),	1043	407
BG963836	expressed sequence AW558298	1032	570
NM_011368	src homology 2 domain-containing transforming protein C1	1025	554
NM_013850	ATP-binding cassette, sub-family A (ABC1), member 7	1022	92
BC017687	ubiquinol-cytochrome c reductase core protein 1	1020	327
BC007171	Mus musculus, clone MGC:7530 IMAGE:3492114, mRNA, com	1001	513
C78749	DNA segment, Chr 11, ERATO Doi 204, expressed	999	404
ET62534		988	537
AK014542	huntingtin interacting protein 1 related	975	327
W55037		970	524
NM_019479	hairy and enhancer of split 6, (Drosophila)	964	531
AF411100	RIKEN cDNA 4933424M23 gene	957	371
NM_026572	RIKEN cDNA 5730591C18 gene	953	-670
NM_028152	MMS19 (MET18 S. cerevisiae)-like	947	417
NM_008138	guanine nucleotide binding protein, alpha inhibiting 2	946	87
BC012408	calnexin	912	465
BC026492	Mus musculus, clone MGC:31579 IMAGE:4505095, mRNA, cor	907	507
W66763		897	51
NM_080461	zinc finger protein 358	891	446
BC006916	Mus musculus, clone MGC:11980 IMAGE:3601364, mRNA, cor	889	-459
AK012540	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activa	882	213
NM_026257	RIKEN cDNA 4930506L07 gene	874	341
BF144180	expressed sequence AA409944	863	465
NM_025888	RIKEN cDNA 2410004N11 gene	857	417
BC024870	RIKEN cDNA 2610306D21 gene	852	305
NM_018739	retinitis pigmentosa 9 homolog (human)	847	454
BC006897	expressed sequence AI606441	847	328
BI658479	expressed sequence AI465155	846	194
AK004929	RIKEN cDNA 1300007F04 gene	835	430
BI734501	expressed sequence AA414969	834	275
AF316548	zinc finger protein 148	832	386
AK014485	RIKEN cDNA 4432411E13 gene	825	388
NM_024289	oxysterol binding protein homolog 1	807	-335
NM_007828	death-associated kinase 3	795	433
NM_011803	core promoter element binding protein	792	349
NM_019772	small acidic protein	792	420

NM_134002	expressed sequence AI463719	791	422
AK012944	U2 small nuclear ribonucleoprotein B	786	409
NM_024183	RIKEN cDNA 1300019H17 gene	783	414
BC004085	expressed sequence AA410158	782	394
AF075461	development and differentiation enhancing	778	366
NM_029780	v-raf-1 leukemia viral oncogene 1	770	35
AK005067	calcium binding protein P22	770	396
NM_018804	synaptotagmin 11	769	387
X15769		757	280
BG244345	ESTs, Weakly similar to FAN MOUSE PROTEIN FAN [M.muscu	752	342
NM_008220	hemoglobin, beta adult major chain	718	338
BC028520	RIKEN cDNA 2410012M21 gene	718	89
BC012039	RIKEN cDNA 1210001E11 gene	716	363
AK008434	RIKEN cDNA 2010204I15 gene	715	374
BF121623	ESTs, Weakly similar to KHL1_MOUSE Kelch-like protein 1 [M.i	708	262
BC027439	RIKEN cDNA 0710007A14 gene	703	137
BI156837	DNA segment, Chr 11, Brigham & Women's Genetics 0554 exp	694	371
NM_019702	Hbs1-like (S. cerevisiae)	694	-120
AK018785	RAS-like protein expressed in many tissues	688	358
NM_033072	DNA segment, Chr 10, Wayne State University 93, expressed	685	389
AK011462	RIKEN cDNA 2610019F03 gene	682	-144
NM_013916	Hoxa1 regulated gene	682	303
NM_026080	RIKEN cDNA 3110030K20 gene	678	321
BC018220	RIKEN cDNA 1810041M12 gene	673	233
NM_008672	nucleosome assembly protein 1-like 4	672	353
BG071922	DNA segment, Chr 6, ERATO Doi 365, expressed	671	285
NM_024226	reticulon 4	671	320
BF142489	expressed sequence AW212954	669	335
AK017878	RIKEN cDNA 5730589N07 gene	661	266
AA166502		660	326
BF135165	expressed sequence AI447560	660	-21
NM_013635	pantophysin	660	332
NM_009844	CD19 antigen	654	-253
AA098588		652	301
BI693493	expressed sequence AI447437	646	77
AK014325	RAE1 RNA export 1 homolog (S. pombe)	634	234
AK010171	RIKEN cDNA 1110064N10 gene	634	299
NM_019774	A kinase (PRKA) anchor protein 8	628	347
BG867519	expressed sequence AI843547	626	311
NM_133247	Vhlh-interacting deubiquitinating enzyme 1	626	314
AA155099		624	300
NM_009396	tumor necrosis factor, alpha-induced protein 2	621	337
AF374266	sterol regulatory element binding factor 1	620	-102
ET62993		616	318
AY007594	transcription factor 20	616	205
BC024910	RIKEN cDNA 1700016D08 gene	614	124
NM_010794	mannoside acetylglucosaminyltransferase 1	612	-180
X54327	M.musculus mRNA for glutamyl-tRNA synthetase	599	300
AK006556	RIKEN cDNA 1700030K07 gene	587	296
NM_025647	RIKEN cDNA 0610011D08 gene	583	296
BC003941	Mus musculus, Similar to zinc finger protein ANC_2H01, clone M	582	227
NM_008292	hydroxysteroid (17-beta) dehydrogenase 4	579	275

NM_008577	solute carrier family 3 (activators of dibasic and neutral amino a	572	-611
AK012120	RIKEN cDNA 2610511I23 gene	568	322
NM_026175	RIKEN cDNA 1200014H24 gene	565	248
BC016637	Mus musculus, general transcription factor IIB, clone MGC:6859	562	-181
AK012358	ring finger protein 2	559	82
NM_133948	expressed sequence AU015605	555	268
AK004894	RIKEN cDNA 1300004C08 gene	552	-1083
NM_026519	RIKEN cDNA 2610318K02 gene	543	303
W64698		542	288
NM_134012	expressed sequence AA408199	540	-205
NM_025859	RIKEN cDNA 2310008D22 gene	539	217
W50532		539	250
BF158662	DNA segment, Chr 7, ERATO Doi 373, expressed	537	269
NM_007622	chromobox homolog 1 (Drosophila HP1 beta)	535	198
NM_019502	fractured callus expressed transcript 1	532	256
NM_028221	expressed sequence AI596259	530	50
AK012726	DNA segment, Chr 3, Wayne State University 161, expressed	530	176
NM_011740	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activa	521	263
BC013716	heat shock factor 1	520	252
AA024320		519	-67
BC025618	Mus musculus, Similar to ATPase, Na+/K+ transporting, alpha 1	517	28
NM_021537	serine/threonine kinase 25 (yeast)	513	245
NM_019489	peptidylprolyl isomerase E (cyclophilin E)	509	281
BG861930	ESTs, Weakly similar to ROA2 MOUSE HETEROGENEOUS NI	507	124
NM_134054	RIKEN cDNA 1110002B05 gene	502	169
W85397		496	226
AK017321	RIKEN cDNA 5430419M09 gene	486	262
BB500071	expressed sequence AA408306	486	257
M77167	activating transcription factor 2	486	136
AF332052	expressed sequence AW538652	486	265
AK005756	RIKEN cDNA 1700008C22 gene	483	237
AK008985	RIKEN cDNA 2210419D22 gene	481	262
BF164652	RIKEN cDNA 1110029L11 gene	481	128
BF682388	expressed sequence AI317193	479	189
AA087332		477	231
BI106830	expressed sequence AI450346	474	45
NM_009897	creatine kinase, mitochondrial 1, ubiquitous	472	129
NM_010926	neighbor of Cox4	462	261
BC028325	G1 to phase transition 1	460	223
BC020156	Mus musculus, Similar to hypothetical gene MGC1127, clone M	458	238
NM_020587	splicing factor, arginine/serine-rich 4 (SRp75)	458	-437
NM_009287	stromal interaction molecule 1	457	-98
NM_025936	RIKEN cDNA 2610011N19 gene	455	204
NM_009125	spinocerebellar ataxia 2 homolog (human)	455	141
AK020739	DNA segment, Chr 9, Wayne State University 149, expressed	454	-149
BC009147	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 16	453	252
BC026459	small EDRK-rich factor 2	447	212
NM_009722	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	446	30
BC008232	Mus musculus, clone IMAGE:2647796, mRNA	440	184
BG067008	DNA segment, Chr 2, ERATO Doi 52, expressed	438	205
X15052	neural cell adhesion molecule 1	434	94
NM_026602	breast carcinoma amplified sequence 2	433	154



NM_026329	polymerase (RNA) II (DNA directed) polypeptide G	432	196
AK010310	RIKEN cDNA 4930588A18 gene	430	-50
BC020098	RIKEN cDNA 1190006A08 gene	429	233
NM_053092	lysyl-tRNA synthetase	426	134
AK016482	toll interacting protein	423	224
X66091	M.musculus ASF mRNA	416	140
AA408365	expressed sequence AA408365	412	212
AU021596	RIKEN cDNA 9430029A22 gene	410	221
AV216117	ESTs	408	221
BC008638	Mus musculus, Similar to aspartyl-tRNA synthetase, clone MGC	407	192
NM_009984	cathepsin L	406	152
BF160184	expressed sequence C77286	403	228
AK004661	RIKEN cDNA 1200009B18 gene	402	215
X53176	integrin alpha 4	398	104
NM_021420	serine/threonine kinase 4	395	203
BF180997	expressed sequence D18386	394	-55
BI408480	expressed sequence AA407055	391	119
ET62761		391	40
AK012540	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activa	378	176
NM_025927	mitochondrial ribosomal protein L45	376	44
BG246296	EST AA408648	374	171
AK009476	RIKEN cDNA 2310022K01 gene	373	199
BC025146	uridine monophosphate kinase	362	34
NM_130885	nucleolar protein C7	359	168
D00925		354	165
AA117905		350	-265
AK012154	phenylalanine-tRNA synthetase-like	348	-634
NM_009444	trans-golgi network protein 2	347	-59
BC025597	Mus musculus, Similar to calcium/calmodulin-dependent protein	345	113
AB021860	activator of basal transcription	344	137
NM_011244	retinoic acid receptor, gamma	342	109
BG092263	ESTs, Weakly similar to TLM MOUSE TLM PROTEIN [M.muscul	341	-5
NM_009498	vesicle-associated membrane protein 3	337	54
NM_009101	Harvey rat sarcoma oncogene, subgroup R	335	42
AK017688	RIKEN cDNA 5730469M10 gene	334	-74
AF325921	SWI/SNF related, matrix associated, actin dependent regulator	331	171
U46956		330	146
NM_025647	RIKEN cDNA 0610011D08 gene	330	126
BG174161	DNA segment, Chr 8, ERATO Doi 69, expressed	328	157
NM_010796	macrophage galactose N-acetyl-galactosamine specific lectin	326	137
NM_009443	trans-golgi network protein 1	326	176
NM_133347	RIKEN cDNA 2810477H02 gene	322	61
NM_021714	WW domain binding protein 11	317	-151
W29523	DNA segment, Chr 8, Brigham & Women's Genetics 1112 expre	316	169
BC017639	ATPase, Ca <sup>++</sup> transporting, ubiquitous	313	170
NM_008637	nudix (nucleoside diphosphate linked moiety X)-type motif 1	309	143
BC002040	RIKEN cDNA 0610009H04 gene	303	-331
AA163967		303	10
NM_019479	hairy and enhancer of split 6, (Drosophila)	302	-172
NM_008847	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	302	101
NM_008898	P450 (cytochrome) oxidoreductase	301	149
NM_019491	v-ral simian leukemia viral oncogene homolog A (ras related)	296	91

NM_033080	DNA segment, Chr 7, Roswell Park 2 complex, expressed	293	113
BC003300	ATP-binding cassette, sub-family F (GCN20), member 2	292	-33
NM_011334	chloride channel 4-2	289	102
AK004765	zinc finger protein 263	287	71
NM_023526	RIKEN cDNA 2400004O09 gene	287	53
NM_009147	SEC23A ( <i>S. cerevisiae</i> )	287	137
AK005891	RIKEN cDNA 1700012B15 gene	284	149
BC025821	<i>Mus musculus</i> , clone MGC:37860 IMAGE:5100400, mRNA, cor	280	71
NM_133874	RIKEN cDNA 4833432B22 gene	279	143
BC019806	<i>Mus musculus</i> , clone MGC:30933 IMAGE:4018387, mRNA, cor	277	147
NM_026172	2,4-dienoyl CoA reductase 1, mitochondrial	277	154
AK004820	protease, serine, 15	277	-536
NM_032396	kringle containing transmembrane protein	275	140
BB628221	expressed sequence R75565	274	-39
W97919		272	-232
NM_031168	interleukin 6	270	98
AK014175	RIKEN cDNA 3110043O21 gene	267	135
NM_011431	U5 small nuclear ribonucleoprotein 116 kDa	264	-455
AF263240	Down syndrome critical region homolog 1 (human)	263	-55
NM_023813	calcium/calmodulin-dependent protein kinase II, delta	262	43
NM_009320	solute carrier family 6 (neurotransmitter transporter, taurine), me	261	102
BC013538	RIKEN cDNA 2010320B01 gene	260	-151
AK010307	RIKEN cDNA 2310039H15 gene	259	-44
BC006645	<i>Mus musculus</i> , Similar to alpha 1,2-mannosidase, clone IMAGE	257	69
NM_010585	inositol 1,4,5-triphosphate receptor 1	251	76
BC027432	<i>Mus musculus</i> , clone IMAGE:3982770, mRNA, partial cds	249	89
BG977089	expressed sequence C76907	245	116
NM_011317	KH domain containing, RNA binding, signal transduction associ	244	81
BG298004	EST AA407874	243	34
NM_080633	aconitase 2, mitochondrial	241	66
ET61288		240	56
NM_010264	nuclear receptor subfamily 6, group A, member 1	238	116
AK004285	RIKEN cDNA 1110057K04 gene	235	6
BC013719	RIKEN cDNA 2610313E07 gene	235	49
AI592192	RIKEN cDNA 5830431A10 gene	235	-170
AA067335		234	38
NM_026369	actin related protein 2/3 complex, subunit 5 (165 kDa)	233	-155
AK013856	<i>Mus musculus</i> 12 days embryo head cDNA, RIKEN full-length e	233	108
BC025036	<i>Mus musculus</i> , Similar to ligatin, clone IMAGE:4982955, mRNA	230	73
NM_007760	carnitine acetyltransferase	227	85
AK013955	RIKEN cDNA 3110001K13 gene	226	92
NM_134151	expressed sequence AL024047	224	51
AV280509	ESTs	223	99
NM_138743	RIKEN cDNA 1190017O12 gene	223	109
BC002178	enoyl Coenzyme A hydratase, short chain, 1, mitochondrial	222	29
NM_008448	kinesin family member 5B	219	78
NM_031999	transmembrane 7 superfamily member 1	217	48
NM_025791	RIKEN cDNA 0610006I08 gene	216	-69
NM_009984	cathepsin L	214	44
BF608270	expressed sequence AA408125	214	-36
AK003758	RIKEN cDNA 1110017N23 gene	214	106
AK018153	RIKEN cDNA 6330409N04 gene	210	-6

AK007344	RIKEN cDNA 1810005K14 gene	208	68
NM_011847	DnaJ (Hsp40) homolog, subfamily B, member 6	202	-597
BC019407	RIKEN cDNA 9430098E02 gene	200	84
NM_019718	ADP-ribosylation-like 3	194	-138
NM_052973	nuclear autoantigen	193	21
NM_007465	baculoviral IAP repeat-containing 3	192	10
BG070774	ESTs	190	0
ET61622		188	-301
NM_021463	phosphoribosyl pyrophosphate synthetase 1	185	-73
NM_011192	proteasome (prosome, macropain) 28 subunit, 3	185	-59
AK011391	RIKEN cDNA 2610014F08 gene	184	-27
C80692	expressed sequence C80692	183	100
NM_013687	t-complex protein 11	183	70
AK018685	RIKEN cDNA 9130422G05 gene	180	-73
AK005100	RIKEN cDNA 1500001M20 gene	178	56
BC021355	RIKEN cDNA 2310044F10 gene	176	57
NM_007658	cell division cycle 25 homolog A ( <i>S. cerevisiae</i> )	176	84
W29523	DNA segment, Chr 8, Brigham & Women's Genetics 1112 exprc	175	73
NM_007697	close homolog of L1	173	45
BC021494	expressed sequence AA589382	165	90
AB060650	Mus musculus mRNA for small GTPase Tc10, complete cds	163	72
C76261	ESTs	159	51
W42399		159	38
NM_009537	YY1 transcription factor	158	-355
NM_025578	mitochondrial ribosomal protein S25	156	8
BG078902	expressed sequence C76294	155	58
AK021172	RIKEN cDNA C330002I19 gene	151	-1
AK012994	RIKEN cDNA 2810405F18 gene	151	63
BC010211	expressed sequence AW495282	151	46
AK013880	asparaginyl-tRNA synthetase	150	-211
NM_010389	histocompatibility 2, O region beta locus	148	-43
BC026761	RIKEN cDNA 4930421J07 gene	148	70
NM_031494	Zinc finger protein 275	147	-8
NM_009982	cathepsin C	147	59
NM_009624	adenylate cyclase 9	146	51
NM_024258	ubiquitin specific protease 16	146	38
NM_018743	putative lysophosphatidic acid acyltransferase	145	-112
X13588		143	-123
BC025572	Mus musculus, Similar to hypothetical protein, clone MGC:1925	142	2
NM_026438	RIKEN cDNA 2010317E03 gene	142	-168
BC013717	Mus musculus, eukaryotic translation termination factor 1, clone	141	-296
AA414957	ESTs, Weakly similar to I49130 reverse transcriptase - mouse [I	141	37
NM_009454	ubiquitin-conjugating enzyme E2E 3, UBC4/5 homolog (yeast)	139	73
BC017514	RIKEN cDNA 2600013G09 gene	138	-437
AF090190	kinesin heavy chain member 1B	136	60
AK013291	RIKEN cDNA 2810442I22 gene	136	23
BG066342	ESTs	136	6
W49913		135	-154
AF356522	dynein, axon, heavy chain 8	135	-135
NM_018764	protocadherin 7	134	17
NM_021522	ubiquitin specific protease 14	133	1
NM_016812	Btg3 associated nuclear protein	131	22

C76438	DNA segment, Chr 10, ERATO Doi 17, expressed	131	-88
W51132		129	-18
NM_134151	expressed sequence AL024047	127	54
BG293664	expressed sequence AI181996	126	-281
NM_011895	solute carrier family 35 (CMP-sialic acid transporter), member 1	125	53
AK013334	DNA segment, Chr 1, Wayne State University 40, expressed	124	-239
NM_138599	DNA segment, Chr 16, Wayne State University 109, expressed	123	27
NM_133806	expressed sequence AA420407	121	-23
M16395		119	-108
NM_009427	transducer of ErbB-2.1	118	66
NM_009034	retinol binding protein 2, cellular	117	22
BB051001	ESTs	115	18
NM_133968	RIKEN cDNA 0610007H10 gene	114	-73
AA021692		113	54
BC026459	small EDRK-rich factor 2	113	-35
NM_019800	acid phosphatase 6, lysophosphatidic	112	-184
AK012196	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	112	-276
BC027404	Mus musculus, Similar to hypothetical protein FLJ20244, clone I	107	-193
BC006595	Mus musculus, Similar to NDRG family, member 4, clone MGC:	107	-39
NM_011757	zinc finger proliferation 1	106	-15
BC027747	RAD23b homolog (S. cerevisiae)	104	-149
NM_016706	coilin	103	-77
NM_011561	thymine DNA glycosylase	103	18
NM_018813	cleavage and polyadenylation specificity factor 3	102	-33
BF101775	DNA segment, Chr 5, Wayne State University 31, expressed	101	-54
AA061002		101	13
BC022140	Mus musculus, clone IMAGE:5101040, mRNA, partial cds	100	30