

Supplemental Material-Table 1. Apoptosis-related genes examined in the microarray experiments.

#	Accession	Gene Name	Gene Symbol	Present*
1	BF417479	24-dehydrocholesterol reductase	Dhcr24	Yes
2	NM_022225	5-hydroxytryptamine (serotonin) receptor 1B	Ets1	No
3	NM_030870	8-oxoguanine DNA-glycosylase 1	Ogg1	Yes
4	NM_020306	a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)	Adam17	Yes
5	NM_131911	acidic nuclear phosphoprotein 32 family, member B	Anp32b	Yes
6	NM_012912	activating transcription factor 3	Atf3	Yes
7	BM391471	activating transcription factor 5	Atf5	Yes
8	NM_019361	activity regulated cytoskeletal-associated protein	Arc	No
9	AI600029	activity-dependent neuroprotective protein	Adnp	Yes
10	NM_017155	adenosine A1 receptor	Adora1	No
11	AF228684	adenosine A2a receptor	Adora2a	Yes
12	NM_012896	adenosine A3 receptor	Adora3	No
13	NM_031006	adenosine deaminase, RNA-specific	Adar	Yes
14	AW523747	adhesion molecule with Ig like domain 2	Amigo2	Yes
15	U07126	adrenergic receptor, alpha 1a	Adra1c	No
16	AY057895	adrenergic receptor, beta 2	Adrb2	Yes
17	NM_012715	adrenomedullin	Adm	Yes
18	NM_134326	albumin	Alb	Yes
19	NM_022407	aldehyde dehydrogenase family 1, member A1	Aldh1a1	Yes
20	NM_012498	aldo-keto reductase family 1, member B4 (aldose reductase)	Akr1b4	Yes
21	NM_017196	allograft inflammatory factor 1	Aif1	Yes
22	NM_012493	alpha-fetoprotein	Afp	No
23	NM_012892	amiloride-sensitive cation channel 1, neuronal (degenerin)	Accn1	No
24	BM986220	amyloid beta (A4) precursor protein	App	Yes
25	NM_053957	amyloid beta (A4) precursor protein-binding, family B, member 3	Apbb3	Yes
26	U90829	amyloid beta precursor protein binding protein 1	Appbp1	Yes
27	NM_012502	androgen receptor	Ar	Yes
28	AF275151	androgen receptor-related apoptosis-associated protein CBL27	Cbl27	Yes
29	BI275292	angiopoietin 2	Angpt2	No
30	AA818262	angiopoietin-like 4	Angptl4	Yes
31	AF201331	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	Ace	Yes
32	BF552873	angiotensin II receptor, type 2	Agtr2	No
33	NM_031009	angiotensin receptor 1b	Agtr1b	No
34	NM_134432	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	Agt	Yes
35	AJ428573	ankyrin 3, epithelial	Ank3	Yes
36	L81174	ankyrin repeat domain 1 (cardiac muscle)	Ankrd1	Yes
37	NM_012904	annexin A1	Anxa1	Yes
38	NM_024155	annexin A4	Anxa4	Yes
39	NM_013132	annexin A5	Anxa5	Yes
40	BI275921	anterior pharynx defective 1a homolog (C. elegans)	Aph1a	No
41	NM_133400	apobec-1 complementation factor	Acf	No
42	J02582	apolipoprotein E	ApoE	Yes
43	NM_053720	apoptosis antagonizing transcription factor	Aatf	Yes
44	AI233249	apoptosis inhibitor 5 (predicted)	Api5_predicted	No
45	AW144082	Apoptosis, caspase activation inhibitor (predicted)	Aven_predicted	No
46	AA894233	apoptosis-inducing factor (AIF)-like mitochondrion-associated inducer of death (predicted)	Amid_predicted	Yes
47	BE116857	apoptotic chromatin condensation inducer 1	Acin1	Yes
48	AF218388	apoptotic peptidase activating factor 1	Apaf1	Yes
49	L07268	aquaporin 1	Aqp1	Yes
50	NM_019158	aquaporin 8	Aqp8	Yes
51	NM_031010	arachidonate 15-lipoxygenase	Alox15	Yes
52	BF285345	arrestin, beta 2	Arrb2	Yes
53	NM_013149	aryl hydrocarbon receptor	Ahr	Yes
54	NM_012780	aryl hydrocarbon receptor nuclear translocator	Arnt	No
55	NM_021590	aryl hydrocarbon receptor-interacting protein-like 1	Aip1	No
56	BI274345	ataxin 10	Atxn10	Yes
57	NM_058213	ATPase, Ca ⁺⁺ transporting, cardiac muscle, fast twitch 1	Atp2a1	Yes
58	J04024	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	Atp2a2	Yes
59	AY082609	ATP-binding cassette, sub-family B (MDR/TAP), member 1/ ATP-binding cassette, sub-family B (MDR/TAP), member 1A	Abcb1 /// Abcb1a	Yes
60	NM_017228	atrophin 1	Atn1	Yes
61	AI169001	autophagy-related 12 (yeast)	Atg12	Yes
62	AI406520	AXL receptor tyrosine kinase	Axl	Yes

63	NM_021752	baculoviral IAP repeat-containing 2	Birc2	Yes
64	NM_023987	baculoviral IAP repeat-containing 3	Birc3	Yes
65	AF304333	baculoviral IAP repeat-containing 4	Birc4	No
66	NM_022274	baculoviral IAP repeat-containing 5	Birc5	Yes
67	NM_031328	B-cell CLL/lymphoma 10	Bcl10	Yes
68	NM_016993	B-cell leukemia/lymphoma 2	Bcl2	Yes
69	NM_133416	B-cell leukemia/lymphoma 2 related protein A1	Bcl2a1	Yes
70	AI172204	B-cell receptor-associated protein 29	Bcap29	Yes
71	AI409930	B-cell receptor-associated protein 31	Bcap31	Yes
72	NM_017258	B-cell translocation gene 1, anti-proliferative	Btg1	Yes
73	BI288701	B-cell translocation gene 2, anti-proliferative	Btg2	Yes
74	NM_139258	Bcl2 modifying factor	Bmf	No
75	NM_053420	BCL2/adenovirus E1B 19 kDa-interacting protein 3	Bnip3	Yes
76	NM_080888	BCL2/adenovirus E1B 19 kDa-interacting protein 3-like	Bnip3l	Yes
77	NM_080897	BCL2/adenovirus E1B 19kDa-interacting protein 1	Bnip1	Yes
78	AI178277	BCL2/adenovirus E1B 19kDa-interacting protein 1, NIP2 (predicted)	Bnip2_predicted	Yes
79	NM_053812	BCL2-antagonist/killer 1	Bak1	Yes
80	BI280304	Bcl2-associated athanogene 1 (predicted)	Bag1_predicted	Yes
81	AI231792	Bcl2-associated athanogene 3	Bag3	Yes
82	BI282898	BCL2-associated athanogene 5	Bag5	No
83	AF279911	bcl2-associated death promoter	Bad	No
84	AI717547	BCL2-associated transcription factor 1	Bclaf1	Yes
85	AF235993	Bcl2-associated X protein	Bax	Yes
86	U72350	Bcl2-like 1	Bcl2l1	Yes
87	NM_053733	Bcl2-like 10	Bcl2l10	No
88	NM_022612	BCL2-like 11 (apoptosis facilitator)	Bcl2l11	Yes
89	AI227978	BCL2-like 12 (proline rich) (predicted)	Bcl2l12_predicted	Yes
90	AA892271	BCL2-like 13 (apoptosis facilitator) (predicted)	Bcl2l13_predicted	Yes
91	NM_021850	Bcl2-like 2	Bcl2l2	No
92	AF051093	Bcl-2-related ovarian killer protein	Bok	Yes
93	NM_053739	beclin 1 (coiled-coil, myosin-like BCL2-interacting protein)	Becn1	Yes
94	AI008680	benzodiazepine receptor, peripheral	Bzrp	Yes
95	NM_057130	BH3 interacting (with BCL2 family) domain, apoptosis agonist	Bid3	No
96	AF136282	BH3 interacting domain death agonist	Bid	Yes
97	AI177631	bifunctional apoptosis regulator	Bfar	Yes
98	NM_012827	bone morphogenetic protein 4	Bmp4	Yes
99	BE118651	bone morphogenic protein receptor, type II (serine/threonine kinase)	Bmpr2	Yes
100	AA851481	brain and reproductive organ-expressed protein	Bre	Yes
101	X67108	brain derived neurotrophic factor	Bdnf	Yes
102	AI169085	brain zinc finger protein	Zfp179	No
103	NM_017253	branched chain aminotransferase 1, cytosolic	Bcat1	Yes
104	NM_022622	BRCA1 associated RING domain 1	Bard1	No
105	BF404972	Breast cancer 1	Brcal	No
106	NM_012931	breast cancer anti-estrogen resistance 1	Bcar1	Yes
107	NM_134413	BTB (POZ) domain containing 14B	Btbd14b	No
108	NM_031334	cadherin 1	Cdh1	Yes
109	NM_019161	cadherin 22	Cdh22	Yes
110	AF061947	calcineurin binding protein 1	Cabin1	Yes
111	BM958511	calcium binding protein p22	Chp	Yes
112	AB070350	calcium binding protein p22 /// similar to calcium binding protein P22 (predicted) /// similar to calcium binding protein P22 (predicted)	RGD1565588_predicted /// RGD1564956_predicted Chp /// RGD1565588_predicted /// RGD1564956_predicted	Yes
113	BF404381	Calcium/calmodulin-dependent protein kinase II, alpha		No
114	NM_016996	calcium-sensing receptor	Casr	No
115	NM_019152	calpain 1	Capn1	Yes
116	NM_053295	calpastatin	Cast	Yes
117	NM_022399	calreticulin	Calr	Yes
118	NM_032462	Calsenilin, presenilin binding protein, EF hand transcription factor	Csen	Yes
119	NM_031017	cAMP responsive element binding protein 1	Creb1	No
120	NM_017334	cAMP responsive element modulator	Crem	Yes
121	NM_012784	cannabinoid receptor 1 (brain)	Cnr1	No
122	AW252112	carbonic anhydrase 11	Car11	Yes
123	BF281311	casein kinase 2, beta subunit	Csnk2b	Yes

124	NM_057138	CASP8 and FADD-like apoptosis regulator	Cflar	Yes
125	D85899	caspase 1	Casp1	Yes
126	NM_130422	caspase 12	Casp12	Yes
127	AF136231	caspase 2	Casp2	Yes
128	BM387008	caspase 3, apoptosis related cysteine protease	Casp3	Yes
129	NM_053736	caspase 4, apoptosis-related cysteine peptidase	Casp4	Yes
130	NM_031775	caspase 6	Casp6	Yes
131	BF283754	caspase 7	Casp7	Yes
132	1369262_at	caspase 8	Casp8	Yes
133	BF282281	caspase 8 associated protein 2 (predicted)	Casp8ap2_predicted	Yes
134	AF262319	caspase 9	Casp9	Yes
135	NM_022303	caspase recruitment domain family, member 9	Card9	No
136	AI136555	castration induced prostatic apoptosis-related protein 1	Cipar1	Yes
137	NM_022597	cathepsin B	Ctsb	Yes
138	NM_134334	cathepsin D	Ctsd	Yes
139	AI548979	cationic trypsinogen	LOC286911	No
140	NM_024125	CCAAT/enhancer binding protein (C/EBP), beta	Cebpb	Yes
141	1368813_at	CCAAT/enhancer binding protein (C/EBP), delta	Cebpd	Yes
142	NM_021744	CD14 antigen	Cd14	Yes
143	NM_017079	CD1d1 antigen	Cd1d1	Yes
144	NM_012830	CD2 antigen	Cd2	Yes
145	NM_013121	CD28 antigen	Cd28	No
146	1389997_at	CD3 antigen, epsilon polypeptide (predicted)	Cd3e_predicted	Yes
147	AI044631	CD3 antigen, gamma polypeptide	Cd3g_predicted	No
148	D30795	CD38 antigen	Cd38	Yes
149	AF065147	CD44 antigen	Cd44	Yes
150	NM_019295	CD5 antigen	Cd5	No
151	NM_012523	CD53 antigen	Cd53	Yes
152	NM_013069	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	Cd74	Yes
153	NM_031755	CEA-related cell adhesion molecule 1	Ceacam1	Yes
154	U23056	CEA-related cell adhesion molecule 1 /// CEA-related cell adhesion molecule 10	Ceacam1 /// Ceacam10	Yes
155	BF284899	cell death-inducing DNA fragmentation factor, alpha subunit-like effector A (predicted)	Cidea_predicted	Yes
156	L24388	cell division cycle 2 homolog (S.pombe)-like 1	Cdc2	No
157	AI059933	Cell division cycle 25 homolog A (S. cerevisiae)	Cdc2	No
158	NM_023026	centaurin, gamma 1	Ceng1a	No
159	NM_031530	chemokine (C-C motif) ligand 2	Ccl2	Yes
160	NM_031116	chemokine (C-C motif) ligand 5	Ccl5	Yes
161	BE095824	chemokine (C-C motif) ligand 6	Ccl6	Yes
162	AA945737	chemokine (C-X-C motif) receptor 4	Cxcr4	Yes
163	AI012221	chloride intracellular channel 1	Clc1	Yes
164	NM_012829	cholecystokinin	Cck	Yes
165	NM_012832	cholinergic receptor, nicotinic, alpha polypeptide 7	Chrna7	No
166	AI171615	chromosome segregation 1-like (S. cerevisiae) (predicted)	Cse11_predicted	No
167	NM_013092	chymase 1, mast cell	Cma1	Yes
168	AA957183	Citron	Cit	No
169	BG673439	claudin 11	Cldn11	Yes
170	AF314657	clusterin	Clu	Yes
171	NM_012950	coagulation factor II (thrombin) receptor	F2r	Yes
172	NM_013057	coagulation factor III	F3	Yes
173	BM389673	cofilin 1, non-muscle	Cfl1	Yes
174	AF092207	coiled-coil domain containing 5	Ccdc5	Yes
175	U00620	colony stimulating factor 2 (granulocyte-macrophage)	Csf2	No
176	NM_130825	comparative gene identification transcript 94	Cgi94	No
177	NM_032060	complement component 3a receptor 1	C3ar1	Yes
178	NM_053619	complement component 5, receptor 1	C5r1	Yes
179	AA819870	complement component 8, beta polypeptide (mapped)	C8b	No
180	NM_057146	complement component 9	C9	No
181	AW916366	COP9 (constitutive photomorphogenic) homolog, subunit 3 (Arabidopsis thaliana)	Cops3	No
182	NM_031019	corticotropin releasing hormone	Crh	No
183	AW433973	craniofacial development protein 1	Cfdp1	Yes
184	U47922	crystallin, alpha A	Cryaa	No
185	NM_012935	crystallin, alpha B	Cryab	Yes
186	AF090695	CUG triplet repeat, RNA binding protein 2	Cugbp2	Yes
187	BI284428	cullin 1 (predicted)	Cul1_predicted	Yes
188	BI295890	cullin 2 (predicted)	Cul2_predicted	No
189	BI285751	cullin 3 (predicted)	Cul3_predicted	No

190	NM_022683	cullin 5	Cul5	Yes
191	X64589	cyclin B1	Ccnb1	Yes
192	AW913890	cyclin E	Ccne	No
193	NM_080885	cyclin-dependent kinase 5	Cdk5	Yes
194	NM_053891	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	Cdk5r1	No
195	H31766	cyclin-dependent kinase 9 (CDC2-related kinase)	Cdk9	Yes
196	AI010427	cyclin-dependent kinase inhibitor 1A	Cdkn1a	Yes
197	AI013919	cyclin-dependent kinase inhibitor 1C (P57)	Cdkn1c	Yes
198	AF474976	cyclin-dependent kinase inhibitor 2A	Cdkn2a	No
199	AI409867	cystatin B	Cstb	Yes
200	BG666933	cystatin C	Cst3	Yes
201	NM_031327	cysteine rich protein 61	Cyr61	Yes
202	NM_023965	cytochrome b-245, beta polypeptide	Cybb	Yes
203	NM_012839	cytochrome c, somatic	Cycs	Yes
204	NM_012840	cytochrome c, testis	Cyct	No
205	NM_012840	cytochrome c, testis /// phosphodiesterase 11A	Cyctpd11	No
206	X00469	cytochrome P450, family 1, subfamily a, polypeptide 1	Cyp1a1	Yes
207	NM_031543	cytochrome P450, family 2, subfamily e, polypeptide 1	Cyp2e1	Yes
208	BF285068	cytokine induced apoptosis inhibitor 1	Ciapin1	Yes
209	BI298817	Cytotoxic granule-associated RNA binding protein 1	Tia1	Yes
210	AI169146	D4, zinc and double PHD fingers family 2 (predicted)	Dpf2_predicted	Yes
211	AI408110	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19	Ddx19	Yes
212	BM389310	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41 (predicted)	Ddx41_predicted	No
213	BI285645	death associated protein 3	Dap3	Yes
214	AA818353	death associated protein kinase 1 (predicted)	Dapk1_predicted	Yes
215	NM_031800	death effector domain-containing	Dedd	Yes
216	NM_022526	death-associated protein	Dap	Yes
217	NM_022546	death-associated protein kinase 3	Dapk3	Yes
218	AI013627	defender against cell death 1	Dad1	Yes
219	NM_080482	deleted in bladder cancer chromosome region candidate 1 (human)	Dbccr	No
220	NM_012841	deleted in colorectal carcinoma	Dcc	No
221	NM_013097	deoxyribonuclease I	Dnase1	No
222	AF178975	deoxyribonuclease II	Dnase2	Yes
223	NM_053907	deoxyribonuclease I-like 3	LOC681124	No
224	NM_022531	desmin	Des	Yes
225	BE110572	diablo homolog (Drosophila)	Diablo	No
226	AI236726	DNA fragmentation factor, alpha subunit	Dffa	No
227	NM_053362	DNA fragmentation factor, beta subunit	Dffb	No
228	NM_024134	DNA-damage inducible transcript 3	Ddit3	Yes
229	NM_080906	DNA-damage-inducible transcript 4	Ddit4	Yes
230	BI282224	DnaJ (Hsp40) homolog, subfamily A, member 3	LOC294513	No
231	BM384926	DnaJ (Hsp40) homolog, subfamily B, member 1 (predicted)	Dnajb1_predicted	Yes
232	NM_012699	DnaJ (Hsp40) homolog, subfamily B, member 9	Dnajb9	Yes
233	BI285682	DnaJ (Hsp40) homolog, subfamily C, member 7	Dnajc7	Yes
234	BF406540	DnaJ (Hsp40) related, subfamily B, member 13	Dnajb13	No
235	L12407	dopamine beta hydroxylase	Dbh	No
236	NM_012547	dopamine receptor 2	Drd2	No
237	M35077	dopamine receptor D1A	Drd1a	No
238	BE110108	dual specificity phosphatase 1	Dusp1	No
239	AI172067	dual specificity phosphatase 22 (predicted)	Dusp22_predicted	Yes
240	U23438	dual specificity phosphatase 4	Dusp4	No
241	NM_133578	dual specificity phosphatase 5	Dusp5	Yes
242	NM_053883	dual specificity phosphatase 6	Dusp6	Yes
243	L24562	dynamain 2	Dnm2	Yes
244	NM_053319	dynein light chain LC8-type 1	Dynll1	Yes
245	NM_012551	early growth response 1	Egr1	Yes
246	AF115249	endothelial differentiation, sphingolipid G-protein-coupled receptor, 8	Edg8	No
247	NM_023090	endothelial PAS domain protein 1	Epas1	No
248	NM_053596	endothelin converting enzyme 1	Ece1	Yes
249	AB023896	endothelin converting enzyme-like 1	Ecel1	No
250	X57764	endothelin receptor type B	Ednrb	Yes
251	BI291645	engulfment and cell motility 3, ced-12 homolog (C. elegans)	Elmo3	Yes
252	NM_012842	epidermal growth factor	Egfr	No
253	M37394	epidermal growth factor receptor	Egfr	Yes
254	AF187818	epidermal growth factor receptor /// peptidase D (mapped)	Egfr /// Pepd_mapped	Yes
255	BF564277	epilepsy, progressive myoclonic epilepsy, type 2 gene alpha	Epme	No

256	NM_017001	erythropoietin	Epo	No
257	AA866269	Estrogen receptor 1	Esr1	No
258	AF042058	estrogen receptor 2 beta	Esr2b	No
259	BF398331	estrogen receptor-binding fragment-associated gene 9	Ebag9	Yes
260	AI412114	etoposide induced 2.4 mRNA	Ei24	Yes
261	NM_012660	eukaryotic translation elongation factor 1 alpha 2	Eef1a2	Yes
262	AI600237	eukaryotic translation elongation factor 1 epsilon 1 (predicted)	Eef1e1_predicted	Yes
263	NM_053950	eukaryotic translation initiation factor 2B, subunit 4 delta	Eif2b4	Yes
264	NM_053974	eukaryotic translation initiation factor 4E	Eif4e	Yes
265	BI283681	eukaryotic translation initiation factor 5A	Eif5a	Yes
266	BM388758	excision repair cross-complementing rodent repair deficiency, complementation group 3	Erc3	Yes
267	D13374	expressed in non-metastatic cells 1	Nme1	No
268	AI385371	extra spindle poles like 1 (S. cerevisiae) (predicted)	Esp1_predicted	Yes
269	NM_080895	Fas apoptotic inhibitory molecule	Faim	Yes
270	AF044201	Fas apoptotic inhibitory molecule 2	Faim2	No
271	NM_080891	Fas death domain-associated protein	Daxx	Yes
272	NM_012908	Fas ligand (TNF superfamily, member 6)	Faslg	Yes
273	AI227743	Fas-activated serine/threonine kinase	Fastk	Yes
274	NM_130406	Fas-associated factor 1	Faf1	Yes
275	NM_053843	Fc receptor, IgG, low affinity III /// Fc gamma receptor II beta	Fcgr3 /// LOC498276	Yes
276	AA999104	Feminization 1 homolog b (C. elegans) (predicted)	Fem1_predicted	No
277	NM_019305	fibroblast growth factor 2	Fgf2	No
278	NM_130817	fibroblast growth factor 3	Fgf3	No
279	AB079673	fibroblast growth factor 4	Fgf4	No
280	NM_133286	fibroblast growth factor 8	Fgf8	No
281	S54008	Fibroblast growth factor receptor 1	Fgfr1	Yes
282	NM_053429	fibroblast growth factor receptor 3	Fgfr3	Yes
283	AA893484	fibronectin 1	Fn1	Yes
284	AI103600	Filamin C, gamma (actin binding protein 280) (predicted)	Fln1_predicted	Yes
285	AF040256	folate hydrolase	Folh1	No
286	M36804	follicle stimulating hormone beta	Fshb	No
287	NM_012561	follistatin	Fst	Yes
288	BI295511	forkhead box O1A	Foxo1a	Yes
289	AI231684	forkhead box O3a (predicted)	Foxo3a_predicted	Yes
290	NM_012953	fos-like antigen 1	Fos1	No
291	NM_012954	fos-like antigen 2 /// FBJ osteosarcoma oncogene B	Fosl2 /// Fosb	Yes
292	NM_017181	fumarylacetoacetate hydrolase	Fah	Yes
293	BE108192	G1 to S phase transition 1	Gspt1	Yes
294	NM_033237	galanin	Gal	Yes
295	NM_019172	galanin receptor 2	Galr2	No
296	NM_053840	gamma-glutamyltransferase 1	Ggt1	Yes
297	NM_019281	gap junction membrane channel protein alpha 9	Gja9	No
298	NM_053388	gap junction membrane channel protein beta 6	Gja6	No
299	NM_012849	gastrin	Gast	No
300	AA945758	gb:AA945758 /DB_XREF=gi:3105674 /DB_XREF=EST201257 /CLONE=RLUAS87 /FEA=EST /CNT=13 /TID=Rn.7908.1 /TIER=Stack /STK=8 /UG=Rn.7908 /UG_TITLE=ESTs	NS	No
301	AI230220	gb:AI230220 /DB_XREF=gi:3814107 /DB_XREF=EST226915 /CLONE=REMCT79 /FEA=EST /CNT=9 /TID=Rn.24381.1 /TIER=Stack /STK=7 /UG=Rn.24381 /UG_TITLE=ESTs, Moderately similar to MLE3 RAT MYOSIN LIGHT CHAIN 3, SKELETAL MUSCLE ISOFORM (R.norvegicus)	NS	No
302	BF555051	gb:BF555051 /DB_XREF=gi:11664781 /DB_XREF=UI-R-E0-cg-f-04-0-UI.r1 /CLONE=UI-R-E0-cg-f-04-0-UI /FEA=EST /CNT=3 /TID=Rn.65517.1 /TIER=ConsEnd /STK=1 /UG=Rn.65517 /UG_TITLE=ESTs, Weakly similar to VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (R.norvegicus)	NS	No
303	BM384229	gb:BM384229 /DB_XREF=gi:18184282 /DB_XREF=UI-R-DZ0-cks-c-03-0-UI.s1 /CLONE=UI-R-DZ0-cks-c-03-0-UI /FEA=EST /CNT=12 /TID=Rn.14615.1 /TIER=Stack /STK=11 /UG=Rn.14615 /UG_TITLE=ESTs, Highly similar to TRA2 MOUSE TNF RECEPTOR ASSOCIATED FACTOR 2 (M.musculus)	NS	No
304	J02582	gb:J02582 /DB_XREF=gi:202957 /FEA=DNA_2 /CNT=1 /TID=Rn.64667.1 /TIER=ConsEnd /STK=0 /UG=Rn.64667 /UG_TITLE=Rat apolipoprotein E gene, complete cds /DEF=Rat apolipoprotein E gene, complete cds	NS	No
305	BI285576	gelsolin	Gsn	Yes
306	NM_021669	ghrelin precursor	Ghrl	No
307	NM_019139	glial cell line derived neurotrophic factor	Gdnf	No
308	BF281741	glioma tumor suppressor candidate region gene 2	Gltscr2	Yes
309	NM_012728	glucagon-like peptide 1 receptor	Glp1r	Yes
310	BI283882	glucose phosphate isomerase	Gpi	Yes
311	NM_017006	glucose-6-phosphate dehydrogenase X-linked	G6pdx	Yes
312	U08259	glutamate receptor, ionotropic, NMDA2C	Grin2c	No
313	NM_017010	glutamate receptor, ionotropic, N-methyl D-aspartate 1	Grin1	No

314	AF001423	glutamate receptor, ionotropic, N-methyl D-aspartate 2A	Grin2a	No
315	M91562	glutamate receptor, ionotropic, N-methyl D-aspartate 2B	Grin2b	No
316	NM_017011	glutamate receptor, metabotropic 1	Gria2bm1	No
317	M92075	glutamate receptor, metabotropic 2	Grm2	No
318	AW522430	glutamate receptor, metabotropic 3	Grm3	No
319	NM_022202	glutamate receptor, metabotropic 8	Gria2bm8	No
320	J05181	glutamate-cysteine ligase, catalytic subunit	Gclc	Yes
			Qars ///	
321	BG380882	glutaminyl-tRNA synthetase /// similar to glutaminyl-tRNA synthetase (predicted)	RGD1562301_predicted	Yes
322	NM_022278	glutaredoxin 1 (thioltransferase)	Glrx1	Yes
323	S41066	glutathione peroxidase 1	Gpx1	Yes
324	NM_017165	glutathione peroxidase 4	Gpx4	Yes
325	NM_017013	glutathione-S-transferase, alpha type2	Gsta2	Yes
326	X02904	glutathione-S-transferase, pi 1 /// glutathione S-transferase, pi 2	Gstp1 /// Gstp2	Yes
327	NM_017008	glyceraldehyde-3-phosphate dehydrogenase /// (predicted)	Gapdh	Yes
			RGD1564351_predicted	
328	BF287444	glycogen synthase kinase 3 beta	Gsk3b	No
329	AI103970	glyoxylase 1	Glo1	Yes
330	BM391371	goliath	LOC652955	Yes
331	NM_031038	gonadotropin releasing hormone receptor	Gnrhr	No
332	NM_012767	gonadotropin-releasing hormone 1	Gnrh1	No
333	M34097	granzyme B	Gzmb	Yes
334	U57063	granzyme G	Gzmg	No
335	NM_019282	gremlin 1 homolog, cysteine knot superfamily (Xenopus laevis)	Grem1	Yes
336	NM_024127	growth arrest and DNA-damage-inducible 45 alpha	Gadd45a	Yes
337	BI287978	growth arrest and DNA-damage-inducible 45 beta	Gadd45b	Yes
338	AI599423	growth arrest and DNA-damage-inducible 45 gamma	Gadd45g	Yes
339	NM_057100	growth arrest specific 6	Gas6	Yes
340	X62853	Growth factor receptor bound protein 2	Grb2	Yes
341	V01238	growth hormone 1	Gh1	No
342	AI170771	growth hormone receptor	Ghr	Yes
343	U94321	growth hormone secretagogue receptor	Gshr	No
344	NM_024356	GTP cyclohydrolase 1	Gch	Yes
345	BM389208	GTPase, IMAP family member 4	Gimap4	Yes
346	M12672	guanine nucleotide binding protein, alpha inhibiting 2	Gnai2	Yes
347	BE117491	guanine nucleotide binding protein, alpha q polypeptide	Gnaq	Yes
348	BM390519	GULP, engulfment adaptor PTB domain containing 1	Gulp1	Yes
349	BG379941	Harvey rat sarcoma viral (v-Ha-ras) oncogene homolog	Hras	Yes
350	NM_012966	heat shock 10 kDa protein 1 (chaperonin 10)	Hspe1	Yes
351	AI236601	heat shock 105kDa/110kDa protein 1	Hsph1	Yes
352	NM_031970	heat shock 27kDa protein 1	Hspb1	Yes
			Hspa1a ///	
353	NM_031971	heat shock 70kD protein 1A /// heat shock 70kD protein 1B (mapped)	Hspa1b_mapped	Yes
354	BI278231	heat shock 70kD protein 1B (mapped)	Hspa1b_mapped	Yes
355	M14050	heat shock 70kDa protein 5 (glucose-regulated protein)	Hspa5	Yes
356	BI282281	heat shock 70kDa protein 9A (predicted)	Hspa9a_predicted	Yes
357	AI237389	heat shock 90kDa protein 1, beta	Hspcb	Yes
358	NM_022229	heat shock protein 1 (chaperonin)	Hspd1	Yes
359	BG671521	heat shock protein 1, alpha	Hspca	Yes
360	AF077354	heat shock protein 4	Hspa4	Yes
361	NM_012580	heme oxygenase (decycling) 1	Hmox1	Yes
362	NM_013185	hemopoietic cell kinase	Hck	Yes
363	1387701_at	hepatocyte growth factor	Hgf	Yes
364	NM_012734	hexokinase 1	Hk1	Yes
365	NM_012735	hexokinase 2	Hk2	Yes
366	BG378885	high mobility group AT-hook 1	Hmga1	Yes
367	BE107162	high mobility group box 1	Hmgb1	Yes
368	AF275734	high mobility group box 1 /// similar to High mobility group protein 1 (HMG-1) (predicted)	Hmgb1 /// RGD1562312_predicted	Yes
			Hdac1_predicted	Yes
369	AI180339	histone deacetylase 1 (predicted)	Hdac3	Yes
370	NM_053448	histone deacetylase 3	Hdac5	Yes
371	BF403027	histone deacetylase 5	Bat3	Yes
372	NM_053609	HLA-B-associated transcript 3		
373	M37568	homeo box C8 (mapped)	Hoxc8_mapped	No
374	BM392321	homeodomain interacting protein kinase 2 (predicted)	Hipk2_predicted	Yes
375	NM_031787	homeodomain interacting protein kinase 3	Hipk3	Yes
376	AB003726	homer homolog 1 (Drosophila)	Homer1	No

377	NM_053523	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	Herpud1	Yes
378	BE111733	hormone-regulated proliferation associated protein 20	Hrpap20	Yes
379	AW253339	huntingtin interacting protein 1	Hip1	Yes
380	U18650	Huntington disease gene homolog	Hdh	Yes
381	NM_019371	hypothetical gene supported by NM_019371	LOC497816	Yes
382	BM390522	hypothetical gene supported by NM_130426	LOC497808	Yes
383	H31665	hypoxia induced gene 1	Hig1	Yes
384	NM_024359	hypoxia inducible factor 1, alpha subunit	Hif1a	Yes
385	BI282904	hypoxia up-regulated 1	Hyou1	Yes
386	AI176519	immediate early response 3	Ier3	Yes
387	AI411947	immunoglobulin heavy chain 1a (serum IgG2a)	Igh-1a	Yes
388	NM_023973	indoleamine-pyrrole 2,3 dioxygenase	Indo	No
389	NM_012590	inhibin alpha	Inha	No
390	NM_017128	inhibin beta-A	Inhba	No
391	NM_013060	inhibitor of DNA binding 2	Id2	Yes
392	AF000942	inhibitor of DNA binding 3	Id3	Yes
393	NM_053355	inhibitor of kappaB kinase beta	Ikbkb	Yes
394	J05510	inositol 1,4,5-triphosphate receptor 1	Itrp1	Yes
395	NM_019311	inositol polyphosphate-5-phosphatase D	Inppd5	No
396	NM_019129	insulin 1	Igf2bp1	No
397	NM_032074	insulin receptor substrate 3	Irs3	Yes
398	M15481	insulin-like growth factor 1	Igf1	Yes
399	NM_052807	insulin-like growth factor 1 receptor	Igf1r	Yes
400	NM_031511	insulin-like growth factor 2	Igf2	Yes
401	NM_012588	insulin-like growth factor binding protein 3	Igfbp3	Yes
402	BF282337	integral membrane protein 2B	Itm2b	Yes
403	NM_017022	integrin beta 1 (fibronectin receptor beta)	Itgb1	Yes
404	NM_133409	integrin linked kinase	Ilk	Yes
405	NM_019127	interferon beta 1, fibroblast	Ifnb1f	No
406	AF010466	interferon gamma	Ifng	No
407	NM_012591	interferon regulatory factor 1	Irf1	Yes
408	NM_017019	interleukin 1 alpha	Il1a	Yes
409	NM_031512	interleukin 1 beta	Il1b	Yes
410	L02926	interleukin 10	Il10	No
411	AF347936	interleukin 11 receptor, alpha chain 1	Il11ra1	Yes
412	NM_053828	interleukin 13	Il13	No
413	AF015718	interleukin 15	Il15	Yes
414	AJ222813	interleukin 18	Il18	Yes
415	NM_013163	interleukin 2 receptor, alpha chain	Il2ra	Yes
416	NM_013195	interleukin 2 receptor, beta chain	Il2rb	Yes
417	NM_031513	interleukin 3	Il6	No
418	X16058	interleukin 4	Il4	No
419	NM_012589	interleukin 6	Il6	Yes
420	AF367210	interleukin 7	Il7	Yes
421	BF405951	Interleukin-1 receptor-associated kinase 4 (predicted)	Irak4_predicted	No
422	1388184_at	isoprenylcysteine carboxyl methyltransferase	Icmt	Yes
423	NM_031514	Janus kinase 2	Jak2	Yes
424	BE096021	Jun D proto-oncogene	Jund1	No
425	BI288619	Jun oncogene	Jun	Yes
426	NM_021836	Jun-B oncogene	Junb	Yes
427	NM_012696	kininogen 1 /// K-kininogen /// similar to alpha-1 major acute phase protein prepeptide	Kng1 /// LOC25087	Yes
428	NM_031135	Kruppel-like factor 10	Klf10	Yes
429	BM385790	Kruppel-like factor 2 (lung) (predicted)	Klf2_predicted	Yes
430	NM_053394	Kruppel-like factor 5	Klf5	Yes
431	NM_053902	kynureninase (L-kynurenine hydrolase)	Kynu	No
432	NM_012594	Lactalbumin, alpha	Lalba	No
433	NM_019904	lectin, galactose binding, soluble 1	Lgals1	Yes
434	NM_031832	lectin, galactose binding, soluble 3	Lgals3	Yes
435	NM_022582	lectin, galactose binding, soluble 7	Lgals7	Yes
436	NM_031048	leukemia inhibitory factor receptor	Lifr	Yes
437	NM_031727	LIM motif-containing protein kinase 1	Limk1	Yes
438	NM_130741	lipocalin 2	Lcn2	Yes
439	BF289368	lipopolysaccharide binding protein	Lbp	Yes
440	BI284739	LPS-induced TN factor	Litaf	Yes
441	AA874924	lymphocyte antigen 86 (predicted)	Ly86_predicted	Yes
442	AI137137	lymphocyte protein tyrosine kinase (mapped)	Lck_mapped	Yes

443	AI012109	lymphocyte specific 1	Lsp1	Yes
444	NM_080769	lymphotoxin A	Lta	No
445	NM_053538	lysosomal-associated protein transmembrane 5	Laptm5	Yes
446	NM_031051	macrophage migration inhibitory factor	Mif	Yes
447	NM_024352	Macrophage stimulating 1 (hepatocyte growth factor-like)	Mst1	Yes
448	NM_019191	MAD homolog 2 (Drosophila)	Smad2	Yes
449	AA997679	MAD homolog 3 (Drosophila)	Smad3	Yes
450	NM_019275	MAD homolog 4 (Drosophila)	Smad4	Yes
451	AW521447	MAD homolog 7 (Drosophila)	Madh7	Yes
452	NM_053585	MAP-kinase activating death domain	Madd	Yes
453	U65656	matrix metalloproteinase 2	Mmp2	Yes
454	NM_031055	matrix metalloproteinase 9	Mmp9	Yes
455	BI289109	max binding protein (predicted)	Mnt_predicted	Yes
456	AW143154	megakaryoblastic leukemia (translocation) 1 (predicted)	Mkl1_predicted	Yes
457	NM_053409	melanoma antigen, family D, 1	Maged1	Yes
458	AF411318	metallothionein 1a	Mt1a	Yes
459	NM_053307	methionine sulfoxide reductase A	Msrb2	No
460	BI281702	microtubule-associated protein 1b	Map1b	Yes
461	BE107978	microtubule-associated protein tau /// hypothetical gene supported by NM_017212	Mapt /// LOC497674	Yes
462	BG665132	mitochondrial carrier homolog 1 (C. elegans)	Mtch1	Yes
463	AA943734	mitochondrial protein, 18 kDa	MGC94604	Yes
464	BG378230	mitochondrial ribosomal protein S30 (predicted)	Mrps30_predicted	Yes
465	NM_053842	mitogen activated protein kinase 1	Mapk1	Yes
466	NM_012806	mitogen activated protein kinase 10	Mapk10	No
467	AW254190	mitogen activated protein kinase 14	Mapk14	Yes
468	AF155236	mitogen activated protein kinase 3	Mapk3	Yes
469	NM_053777	mitogen activated protein kinase 8 interacting protein	Mapk8ip	Yes
470	D13341	mitogen activated protein kinase kinase 1	Map2k1	Yes
471	D14592	mitogen activated protein kinase kinase 2	Map2k2	Yes
472	NM_053887	mitogen activated protein kinase kinase kinase 1	Map3k1	Yes
473	NM_013055	mitogen activated protein kinase kinase kinase 12	Map3k12	No
474	AI146037	Mitogen activated protein kinase kinase kinase 7 (predicted)	Map3k7_predicted	Yes
475	AI575972	Mitogen-activated protein kinase 8 interacting protein 2	Mapk8ip2	No
476	NM_017322	mitogen-activated protein kinase 9	Mapk9	Yes
477	BI281589	mitogen-activated protein kinase kinase kinase 11	Map3k11	Yes
478	NM_053847	mitogen-activated protein kinase kinase kinase 8	Map3k8	Yes
479	D00688	monoamine oxidase A	Maoa	Yes
480	NM_012982	msh homeo box homolog 2 (Drosophila)	Msx2	No
481	NM_053337	Msx-interacting-zinc finger	Miz1	Yes
482	BI274326	mucin 1, transmembrane	Muc1	Yes
483	BM391100	mucin 4	Muc4	No
484	NM_031053	mutL homolog 1 (E. coli) /// hypothetical gene supported by NM_031053	Mlh1 /// LOC497834	Yes
485	NM_021837	myc-like oncogene, s-myc protein	Mycs	No
486	NM_012798	myelin and lymphocyte protein, T-cell differentiation protein	Mal	No
487	BF281184	myeloblastosis oncogene-like 2 (predicted)	Mybl2_predicted	No
488	NM_012603	myelocytomatosis viral oncogene homolog (avian)	Myc	Yes
489	AI172056	myeloid cell leukemia sequence 1	Mcl1	Yes
490	BI284349	myeloid differentiation primary response gene 116	Myd116	Yes
491	AI236590	myeloid differentiation primary response gene 88	Myd88	Yes
492	NM_030860	myocyte enhancer factor 2D	Mef2d	No
493	J02679	NAD(P)H dehydrogenase, quinone 1	Nqo1	Yes
494	NM_053683	NADPH oxidase 1	Noxa1	No
495	AI178285	NCK-associated protein 1	Nckap1	Yes
496	NM_031069	NEL-like 1 (chicken)	Nell1	Yes
497	NM_012610	nerve growth factor receptor (TNFR superfamily, member 16)	Ngfr	No
498	NM_053401	nerve growth factor receptor (TNFRSF16) associated protein 1	Ngfrap1	Yes
499	BM388972	nerve growth factor, beta (mapped)	Norb	No
500	U02323	neuregulin 1	Nrg1	No
501	NM_023968	neuropeptide Y receptor Y2	Npy2r	No
502	NM_021589	neurotrophic tyrosine kinase, receptor, type 1	Ntrk1	No
503	NM_031073	neurotrophin 3	Ntf3	Yes
504	AI598730	neurotrophin receptor associated death domain	Nradd	Yes
505	NM_053734	neutrophil cytosolic factor 1	Ncf1	Yes
506	BI285459	nicastrin	Ncstn	Yes
507	L12562	nitric oxide synthase 2, inducible	Nos2	Yes
508	AJ011116	nitric oxide synthase 3, endothelial cell	Nos3	Yes

509	NM_053507	non-metastatic cell expressed protein 3	Nme3	Yes
510	BF389398	Notch gene homolog 1 (Drosophila)	Notch1	Yes
511	AI011448	Notch gene homolog 2 (Drosophila)	Notch2	Yes
512	NM_020087	Notch gene homolog 3 (Drosophila)	Notch3	No
513	BG377358	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	Nfatc4	No
514	AA858801	nuclear factor of kappa light chain gene enhancer in B-cells 1, p105	Nfkb1	Yes
515	AW672589	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, alpha	Nfkbia	Yes
516	NM_030867	nuclear factor of kappa light chain gene enhancer in B-cells inhibitor, beta	Nfkbib	Yes
517	NM_012991	nuclear pore associated protein	Npap60	No
518	NM_021745	nuclear receptor subfamily 1, group H, member 4	Nr1h4	No
519	NM_052980	nuclear receptor subfamily 1, group I, member 2	Nrc1i2	No
520	NM_017323	nuclear receptor subfamily 2, group C, member 2	Nrc2c2	No
521	AY066016	nuclear receptor subfamily 3, group C, member 1	Nr3c1	Yes
522	NM_013131	nuclear receptor subfamily 3, group C, member 2	Nr3c2	Yes
523	NM_024388	nuclear receptor subfamily 4, group A, member 1	Nr4a1	Yes
524	NM_031628	nuclear receptor subfamily 4, group A, member 3	Nr4a3	Yes
525	NM_022799	nuclear ubiquitous casein kinase and cyclin-dependent kinase substrate	Nucks	Yes
526	NM_053516	nucleolar protein 3 (apoptosis repressor with CARD domain)	Nol3	Yes
527	NM_012992	nucleophosmin 1	Npm1	Yes
528	J04943	nucleophosmin 1 /// similar to Nucleophosmin (NPM) (Nucleolar phosphoprotein B23) (Numatrin)	Npm1 /// LOC300303	Yes
529	BI286040	nucleoporin 62	Nup62	Yes
530	NM_133525	Nucleoside 2-deoxyribosyltransferase domain containing protein RGD620382	RGD620382	No
531	NM_012861	O-6-methylguanine-DNA methyltransferase	Mgmt	Yes
532	L20684	opioid receptor, mu 1	Oprl1	No
533	NM_133585	optic atrophy 1 homolog (human)	Opa1	Yes
534	NM_053288	orosomucoid 1	Orm1	Yes
535	NM_130402	osteoclast inhibitory lectin	Ocil	No
536	NM_133306	oxidized low density lipoprotein (lectin-like) receptor 1	Oldlr1	Yes
537	NM_019210	p21 (CDKN1A)-activated kinase 3	Pak3	No
538	NM_053289	pancreatitis-associated protein	Pap	Yes
539	NM_017044	parathyroid hormone	Pth	No
540	BI281756	Parkinson disease (autosomal recessive, early onset) 7	Park7	Yes
541	BG673589	paxillin	Pxn	Yes
542	AI009656	PEF protein with a long N-terminal hydrophobic domain	Peflin	Yes
543	BI291292	peptidylprolyl isomerase C	Ppic	Yes
544	AA957342	peptidylprolyl isomerase D (cyclophilin D)	Ppid	Yes
545	U68544	peptidylprolyl isomerase F (cyclophilin F)	Ppif	Yes
546	NM_017330	perforin 1 (pore forming protein)	Prf1	Yes
547	NM_017169	peroxiredoxin 2	Prdx2	Yes
548	NM_013196	peroxisome proliferator activated receptor alpha	Ppara	No
549	U75918	Peroxisome proliferator activated receptor delta	Ppard	Yes
550	NM_013124	peroxisome proliferator activated receptor gamma	Pparg	Yes
551	AI598971	PERP, TP53 apoptosis effector (predicted)	Perp_predicted	Yes
552	NM_021657	PH domain and leucine rich repeat protein phosphatase	Phlpp	Yes
553	NM_031606	phosphatase and tensin homolog	Pten	Yes
554	NM_053923	phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide	Pik3ca	No
555	BI290699	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	Pik3ca	Yes
556	D64048	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1	Pik3r1	Yes
557	NM_022185	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 2	Pik3r2	Yes
558	AI232697	phosphatidylserine receptor	Ptdsr	Yes
559	AI454840	Phosphodiesterase 1A, calmodulin-dependent	Pde1a	No
560	AF327906	phosphodiesterase 1B, Ca2+calmodulin dependent	Pde1b	No
561	NM_022958	phosphoinositide-3-kinase, class 3	Pik3c3	Yes
562	NM_133551	phospholipase A2, group IVA (cytosolic, calcium-dependent)	Pla2g4a	Yes
563	U51898	phospholipase A2, group VI	Pla2g6	Yes
564	U69550	phospholipase D1	Pld1	Yes
565	BE112895	phosphoprotein enriched in astrocytes 15	Pea15	Yes
566	NM_053491	plasminogen	Plg	No
567	NM_013151	plasminogen activator, tissue	Plat	Yes
568	NM_013085	plasminogen activator, urokinase	Plau	Yes
569	AF007789	plasminogen activator, urokinase receptor	Plaur	Yes
570	BE100812	platelet derived growth factor, alpha	Pdgfa	Yes
571	BM392366	platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit	Pafah1b2	Yes
572	AI009219	Pleckstrin homology domain containing, family A member 5	Plekha5	Yes
573	NM_017180	pleckstrin homology-like domain, family A, member 1	Phlda1	Yes
574	NM_012760	pleiomorphic adenoma gene-like 1	Plagl1	Yes

575	AB019366	poly (ADP-ribose) glycohydrolase	Parp1	No
576	NM_013063	poly (ADP-ribose) polymerase family, member 1	Parp1	Yes
577	NM_017141	polymerase (DNA directed), beta	Polb	Yes
578	AW531224	polymerase (RNA) II (DNA directed) polypeptide A (mapped)	Polr2a_mapped	Yes
579	AW435212	potassium channel, subfamily K, member 3	Kcnk3	No
580	NM_053405	potassium channel, subfamily K, member 9	Kcnk9	No
581	NM_013186	potassium voltage gated channel, Shab-related subfamily, member 1	Kcnb1	Yes
582	BM385544	presenilin 1	Psen1	Yes
583	AB004454	presenilin 2	Psen2	Yes
584	AI232272	presenilin enhancer 2 homolog (C. elegans)	Psenen	Yes
585	BI278802	prion protein	Prnp	Yes
586	U05989	PRKC, apoptosis, WT1, regulator	Pawr	Yes
587	BI285575	procollagen, type 1, alpha 1	Col1a1	Yes
588	BE108058	procollagen, type XVIII, alpha 1	Col18a1	Yes
589	AI599419	Progesterone receptor	Pgr	No
590	AI704628	programmed cell death 2	Pdcd2	Yes
591	NM_022265	programmed cell death 4	Pdcd4	Yes
592	BF408447	programmed cell death 5 (predicted)	Pdcd5_predicted	Yes
593	BI296393	programmed cell death 6 (predicted)	Pdcd6_predicted	Yes
594	BE328942	programmed cell death 6 interacting protein	Pdcd6ip	Yes
595	AF262320	programmed cell death 8	Pdcd8	Yes
596	AI013847	programmed cell death protein 7 (predicted)	Pdcd7_predicted	Yes
597	BI282863	prohibitin	Phb	Yes
598	NM_012629	prolactin	Prl	No
599	L48060	prolactin receptor	Prlr	No
600	BI290159	proline-serine-threonine phosphatase-interacting protein 1 (predicted)	Pstpip1_predicted	Yes
601	NM_138857	prominin 2	Prom2	No
602	NM_031644	prostaglandin D2 synthase 2	Ptgds2	Yes
603	U03389	prostaglandin-endoperoxide synthase 2	Ptgs2	Yes
604	AI600136	protease, serine, 25	Prss25	Yes
605	NM_031978	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	Psm1	Yes
606	NM_130430	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	Psm9	Yes
607	NM_012803	protein C	Prc	No
608	AI639478	protein disulfide isomerase associated 2 (predicted)	Pdia2_predicted	No
609	NM_017319	protein disulfide isomerase associated 3	Pdia3	Yes
610	BF415343	protein kinase C, alpha	Prkca	Yes
611	X04440	protein kinase C, beta 1	Prkcb1	Yes
612	NM_133307	protein kinase C, delta	Prkcd	Yes
613	AA799421	protein kinase C, epsilon	Prkce	Yes
614	1370197_a_at	protein kinase C, zeta	Prkcz	Yes
615	NM_019142	protein kinase, AMP-activated, alpha 1 catalytic subunit	Prkaa1	Yes
616	NM_023991	protein kinase, AMP-activated, alpha 2 catalytic subunit	Prkaa2	Yes
617	NM_013012	protein kinase, cGMP-dependent, type II	Prkg2	No
618	BF400782	protein kinase, DNA activated, catalytic polypeptide (predicted)	Prkdc_predicted	Yes
619	NM_019335	Protein kinase, interferon-inducible double stranded RNA dependent	Prkr	Yes
620	NM_031527	protein phosphatase 1, catalytic subunit, alpha isoform	Ppp1ca	Yes
621	NM_013065	protein phosphatase 1, catalytic subunit, beta isoform	Ppp1cb	Yes
622	NM_022676	protein phosphatase 1, regulatory (inhibitor) subunit 1A	Ppp1rA	No
623	AI172276	protein phosphatase 1, regulatory (inhibitor) subunit 2	Ppp1r2	Yes
624	AB023634	protein phosphatase 1F (PP2C domain containing)	Ppm1f	Yes
625	BF408792	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	Ppp2ca	Yes
626	NM_017040	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	Ppp2cb	Yes
627	AA800669	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform	Ppp2r1a	Yes
628	1373959_at	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform	Ppp2r1b	Yes
629	AI717081	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	Ppp2r2a	Yes
630	BE113127	Protein phosphatase 3, catalytic subunit, alpha isoform	Ppp3ca	Yes
631	NM_031729	protein phosphatase 5, catalytic subunit	Ppp5c	Yes
632	U06230	protein S (alpha)	Pros1	No
633	U69109	protein tyrosine kinase 2 beta	Ptk2b	Yes
634	NM_012637	protein tyrosine phosphatase, non-receptor type 1	Ptpn1	Yes
635	AI172465	Protein tyrosine phosphatase, non-receptor type 11	Ptpn11	Yes
636	NM_053908	protein tyrosine phosphatase, non-receptor type 6	Ptpn6	Yes
637	M10072	protein tyrosine phosphatase, receptor type, C	Ptprc	Yes
638	NM_022925	protein tyrosine phosphatase, receptor type, Q /// hypothetical gene supported by NM_022925;	Ptprq	No
639	AI178772	prothymosin alpha	Ptma	Yes

640	NM_017034	proviral integration site 1	Pim1	Yes
641	BI294798	PTK2 protein tyrosine kinase 2	Ptk2	Yes
642	AF231010	purinergic receptor P2X, ligand-gated ion channel, 1	P2rx1	Yes
643	AF020757	purinergic receptor P2X, ligand-gated ion channel, 2	P2rx2	No
644	NM_019256	purinergic receptor P2X, ligand-gated ion channel, 7	P2rx7	No
645	NM_017255	purinergic receptor P2Y, G-protein coupled 2	P2ry2	Yes
646	BI282953	PYD and CARD domain containing	Pycard	Yes
647	NM_013018	RAB3A, member RAS oncogene family	Rab3a	Yes
648	U70777	rabaptin, RAB GTPase binding effector protein 1	Rabep1	Yes
649	AJ249986	Rap guanine nucleotide exchange factor (GEF) 1	Rapgef1	Yes
650	AF002251	Ras association (RalGDS/AF-6) domain family 5	Rassf5	Yes
651	AF081196	RAS guanyl releasing protein 1	Rasgrp2	No
652	AI408053	ras homolog gene family, member A	Rhoa	Yes
653	NM_022542	ras homolog gene family, member B	Rhob	Yes
654	NM_013135	RAS p21 protein activator 1	Rasa1	Yes
655	BF414025	Ras-induced senescence 1	Ris1	No
656	AA799542	Ras-related C3 botulinum toxin substrate 1	Rac1	Yes
657	AF036537	receptor-interacting serine-threonine kinase 3	Ripk3	Yes
658	NM_012641	regenerating islet-derived 1	Reg1	No
659	L20869	regenerating islet-derived 3 gamma	Reg3g	No
660	NM_031546	regucalcin	Rgn	Yes
661	AJ299017	ret proto-oncogene	Ret	Yes
662	AF051335	reticulon 4	Rtn4	Yes
663	AI178012	retinoblastoma 1	Rb1	Yes
664	NM_031094	retinoblastoma-like 2	Rbl2	Yes
665	NM_031528	retinoic acid receptor, alpha	Rara	Yes
666	BF419646	retinoic acid receptor, beta	Rarb	Yes
667	BI285959	retinoid X receptor alpha	Rxra	Yes
668	AI408677	Rho GDP dissociation inhibitor (GDI) alpha	Arhgdia	Yes
669	NM_031098	Rho-associated coiled-coil forming kinase 1	Rock1	No
670	NM_013022	Rho-associated coiled-coil forming kinase 2	Rock2	Yes
671	NM_022510	ribosomal protein L4	Rpl4	Yes
672	BI282255	ribosomal protein S5	Rps5	Yes
673	M57428	ribosomal protein S6 kinase, polypeptide 1	Rps6kb1	Yes
674	AI179991	ring finger protein 34	Rnf34	Yes
675	AA858518	ring finger protein 7 (predicted)	Rnf7_predicted	Yes
676	AI175966	Rous sarcoma oncogene	Src	Yes
677	BF403180	Runt related transcription factor 2	Runx2	No
678	NM_012618	S100 calcium-binding protein A4	S100a4	Yes
679	NM_013191	S100 protein, beta polypeptide	S100b	Yes
680	AA850867	sarcoglycan, gamma (dystrophin-associated glycoprotein)	Sgcg	Yes
681	NM_031541	scavenger receptor class B, member 1	Scarb1	Yes
682	BI294932	SCF apoptosis response protein 1	LOC499941	Yes
683	NM_053687	schlafen 3	Slfn3	Yes
684	BF394953	SDA1 domain containing 1	Sdad1	Yes
685	NM_019364	sec1 family domain containing 1	Scfd1	Yes
686	AF220608	secreted frizzled-related protein 4	Sfrp4	No
687	AB001382	secreted phosphoprotein 1	Spp1	Yes
688	NM_017310	sema domain, Ig domain, short basic domain, secreted, (semaphorin) 3A	Sema3a	No
689	BI299759	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (predicted)	Sema6a_predicted	No
690	NM_133291	seminal vesicle antigen-like 2	Sval2	No
691	M25590	seminal vesicle protein 4	Svp4	No
692	BG663093	sequestosome 1	Sqstm1	Yes
693	NM_012620	serine (or cysteine) peptidase inhibitor, clade E, member 1	Serpine1	Yes
694	NM_021696	serine (or cysteine) proteinase inhibitor, clade B, member 2	Serpine2	No
695	AA944455	serine incorporator 3	Serinc3	Yes
696	NM_133392	serine/threonine kinase 17b (apoptosis-inducing)	Stk17b	Yes
697	NM_019349	serine/threonine kinase 2	Stk2	No
698	NM_031735	serine/threonine kinase 3 (STE20 homolog, yeast)	Stk3	Yes
699	AF388527	Serpine1 mRNA binding protein 1	Serbp1	Yes
700	NM_017170	serum amyloid P-component	Apcs	No
701	NM_019232	serum/glucocorticoid regulated kinase	Sgk	Yes
702	NM_080905	seven in absentia 1A	Siah1a	Yes
703	NM_134457	seven in absentia 2	Siah2	No
704	NM_012650	sex hormone binding globulin	Shbg	No
705	BF284481	SH3-domain GRB2-like B1 (endophilin)	Sh3glb1	Yes

706	AF255888	SH3-domain kinase binding protein 1	Sh3kbp1	Yes
707	BF550890	sialophorin	Spn	Yes
708	NM_032612	signal transducer and activator of transcription 1	Stat1	Yes
709	BI285863	signal transducer and activator of transcription 3	Stat3	Yes
710	NM_017064	signal transducer and activator of transcription 5A	Stat5a	Yes
711	AI177626	signal transducer and activator of transcription 5B	Stat5b	Yes
712	BE110607	similar to apoptosis related protein APR-3; p18 protein (predicted)	RGD1311605_predicted	Yes
713	BF396386	similar to cell division cycle and apoptosis regulator 1 (predicted)	RGD1560358_predicted	Yes
714	BI296385	similar to chemokine (C-X-C motif) ligand 16	Cxcl16	Yes
715	BI294745	similar to livin inhibitor of apoptosis isoform beta (predicted)	RGD1562883_predicted	No
716	NM_021846	similar to MAP/microtubule affinity-regulating kinase 4 (MAP/microtubule affinity-regulating kinase like 1) (predicted)	RGD1561096_predicted	Yes
717	AA848545	similar to programmed cell death 10	MGC72992	Yes
718	BF282636	similar to RIKEN cDNA 1700023M03	RGD1305457	Yes
719	AW254416	Similar to TGF-beta induced apoptosis protein 12 (predicted)	RGD1308916_predicted	No
720	AA946199	snail homolog 1 (Drosophila)	Snai1	Yes
721	X89383	SNF related kinase	Snrk	No
722	NM_012647	sodium channel, voltage-gated, type 2, alpha 1 polypeptide	Scn2a	No
723	NM_013178	sodium channel, voltage-gated, type IV, alpha polypeptide	Scn4a	No
724	BI284218	solute carrier family 2 (facilitated glucose transporter), member 1	Slc2a1	Yes
725	NM_017102	solute carrier family 2 (facilitated glucose transporter), member 3	Slc2a3	Yes
726	NM_017223	solute carrier family 20, member 2	Slc20a2	Yes
727	BG666999	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	Slc25a4	Yes
728	NM_017206	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	Slc6a6	Yes
729	NM_053442	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 /// synaptic Ras GTPase activating protein 1 homolog (rat)	Slc7a8 /// Syngap1	Yes
730	U04933	solute carrier family 8 (sodium/calcium exchanger), member 1	Slc7a8 /// Syngap1	No
731	NM_133522	somatostatin receptor 3 /// hypothetical gene supported by NM_133522	SSTR	No
732	BI275248	Son cell proliferation protein	Son	Yes
733	NM_017221	sonic hedgehog homolog (Drosophila)	Shh	No
734	NM_012655	Sp1 transcription factor	Sp1	Yes
735	AB049572	sphingosine kinase 1	Sphk1	Yes
736	BM386306	sphingosine kinase 2	Sphk2	Yes
737	AI169638	sphingosine-1-phosphate phosphatase 1	Sgpp1	Yes
738	U53883	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	ST8sia2	No
739	AY083159	Stam binding protein	Stamp	Yes
740	BM386683	stanniocalcin 1	Stc1	Yes
741	NM_022230	stanniocalcin 2	Stc2	Yes
742	NM_017166	stathmin 1	Stmn1	Yes
743	AF335281	STEAP family member 3	Steap3	Yes
744	AI235465	steroid sensitive gene 1	Ssg1	Yes
745	AI009817	succinate dehydrogenase complex, subunit C, integral membrane protein	Sdhc	Yes
746	NM_134378	sulfatase 1	Sdhc	No
747	NM_017050	superoxide dismutase 1	Sod1	Yes
748	BG671549	superoxide dismutase 2, mitochondrial	Sod2	Yes
749	NM_058208	suppressor of cytokine signaling 2	Socs2	Yes
750	NM_053565	suppressor of cytokine signaling 3	Socs3	Yes
751	BM390864	survival motor neuron domain containing 1	Snmnc1	Yes
752	AI170385	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	Smarca2	Yes
753	BE329013	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	Smarca4	Yes
754	NM_053442	synaptic Ras GTPase activating protein 1 homolog (rat)	Syngap1	No
755	NM_013026	syndecan 1	Sdc1	Yes
756	AA946430	synovial apoptosis inhibitor 1, synoviolin	Syvn1	Yes
757	NM_019169	synuclein, alpha	Snc1	No
758	BG671061	tachykinin 1	Tac1	No
759	BM392226	TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor (predicted)	Taf10_predicted	Yes
760	NM_133615	TAF9-like RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa	Taf9l	Yes
761	AI228250	Tax1 (human T-cell leukemia virus type I) binding protein 1	Tax1bp1	Yes
762	AA957545	T-box 3	Tbx3	Yes
763	AB029495	TCF3 (E2A) fusion partner	Tfpt	Yes
764	AF247818	telomerase reverse transcriptase	Tert	No
765	NM_019381	testis enhanced gene transcript	Tegt	Yes
766	NM_133396	testis-specific kinase 2	Tesk2	Yes
767	AA943723	THAP domain containing, apoptosis associated protein 3 (predicted)	Thap3_predicted	Yes
768	NM_053800	thioredoxin 1	Txn1	Yes
769	AA800180	thioredoxin 2	Txn2	Yes
770	BM390196	thioredoxin domain containing 5 (predicted)	Txndc5_predicted	Yes

771	BF555110	thioredoxin-like 1	Txn1l	Yes
772	BM384228	THO complex 1	Thoc1	Yes
773	AA998057	thymoma viral proto-oncogene 1	Akt1	Yes
774	AI105076	Thymoma viral proto-oncogene 2	Akt2	Yes
775	NM_031575	thymoma viral proto-oncogene 3	Akt3	Yes
776	AI145313	thymus cell antigen 1, theta	Thy1	No
777	NM_012888	thyroid stimulating hormone receptor	Tshr	No
778	AI101391	Tial1 cytotoxic granule-associated RNA binding protein-like 1 (mapped)	Tial1	No
779	NM_053819	tissue inhibitor of metalloproteinase 1	Timp1	Yes
780	NM_021989	tissue inhibitor of metalloproteinase 2	Timp2	Yes
781	NM_012886	Tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	Timp3	Yes
782	AI104533	titin	Ttn	Yes
783	BI287742	TM2 domain containing 1 (predicted)	Tm2d1_predicted	Yes
784	BM389034	TNF receptor-associated protein 1	Trap1	Yes
785	BM386846	TNFRSF1A-associated via death domain	Tradd	Yes
786	AF057025	toll-like receptor 4	Tlr4	Yes
787	AI012419	Transcribed locus	NS	No
788	AW533194	Transcribed locus	NS	No
789	AI104523	Transcribed locus	NS	No
790	AW251860	transcription factor 7, T-cell specific (predicted)	Tcf7_predicted	Yes
791	NM_031326	transcription factor A, mitochondrial	Tfam	Yes
792	BI284455	transcription factor Pur-beta	pur-beta	Yes
793	NM_133317	transducer of ErbB-2.1	Tob1	Yes
794	M58040	transferrin receptor	Tfrc	Yes
795	BI297236	Transformation related protein 53 inducible nuclear protein 1	Trp53inp2	No
796	AJ277449	transformation related protein 63	Trp63	No
797	NM_012671	transforming growth factor alpha	Tgfa	Yes
798	AW254561	transforming growth factor beta regulated gene 4	Tbrg4	Yes
799	1370082_at	transforming growth factor, beta 1	Tgfb1	Yes
800	BF420705	transforming growth factor, beta 2	Tgfb2	Yes
801	NM_012775	transforming growth factor, beta receptor 1	Tgfr1	Yes
802	BI275994	transglutaminase 2, C polypeptide	Tgm2	Yes
803	AB015231	transient receptor potential cation channel, subfamily V, member 1	Trpv1	No
804	NM_023970	transient receptor potential cation channel, subfamily V, member 4 /// transient receptor potential cation channel, subfamily V, member 1	Trpv4	No
805	AB020967	tribbles homolog 3 (Drosophila)	Trib3	Yes
806	NM_080903	tripartite motif protein 63	Trim63	Yes
807	AI104913	tropomodulin 1	Tmod1	Yes
808	NM_031345	TSC22 domain family 3	Tsc22d3	Yes
809	BI285434	tubulin, alpha 1 /// tubulin, alpha 6 /// similar to Tubulin alpha-2 chain (Alpha-tubulin 2) (predicted)	Tuba1 /// Tuba6	Yes
810	BI285434	tubulin, gamma 1	Tubg1	Yes
811	AA819227	tumor necrosis factor (TNF superfamily, member 2)	Tnf	Yes
812	BF283688	tumor necrosis factor ligand superfamily member 12	Tnfsf12	Yes
813	NM_012870	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	Tnfrsf11b	Yes
814	BI303379	tumor necrosis factor receptor superfamily, member 12a	Tnfrsf12a	Yes
815	AI169601	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)	Tnfrsf14	Yes
816	NM_013091	tumor necrosis factor receptor superfamily, member 1a	Tnfrsf1a	Yes
817	NM_013049	tumor necrosis factor receptor superfamily, member 4	Tnfrsf4	No
818	AW433947	tumor necrosis factor receptor superfamily, member 5	Tnfrsf5	Yes
819	NM_139194	Tumor necrosis factor receptor superfamily, member 6	Tnfrsf6	No
820	BM387084	tumor necrosis factor superfamily, member 5-induced protein 1 (predicted)	Tnfsf5ip1_predicted	Yes
821	AY009504	tumor protein p53	Tp53	Yes
822	NM_053867	tumor protein, translationally-controlled 1	Tpt1	Yes
823	BG057543	tumor rejection antigen gp96 (predicted)	Tra1_predicted	Yes
824	AI234654	tumor susceptibility gene 101	Tsg101	Yes
825	NM_013052	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	Ywhah	Yes
826	NM_019376	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	Ywhag	Yes
827	BF281342	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	Ywhaq	Yes
828	AI228292	tyrosine hydroxylase	Th	No
829	AI407490	tyrosyl-tRNA synthetase	Yars	Yes
830	NM_053747	Ubiquilin 1	Ubqln1	Yes
831	BI276086	Ubiquitin specific protease 7 (herpes virus-associated)	Usp7	Yes
832	BI296848	ubiquitination factor E4B, UFD2 homolog (S. cerevisiae) (predicted)	Ube4b_predicted	Yes
833	AI102437	ubiquitin-like 1 (sentrin) activating enzyme E1B	Uble1b	Yes
834	AF159706	unc-13 homolog B (C. elegans)	Unc13b	No
835	NM_022206	unc-5 homolog A (C. elegans)	Unc5a	No

836	NM_022207	unc-5 homolog B (C. elegans)	Unc5b	No
837	BM388453	uncharacterized protein family UPF0227 member RGD1359682	RGD1359682	Yes
838	U30789	upregulated by 1,25-dihydroxyvitamin D-3	Txnip	Yes
839	NM_053864	valosin-containing protein	Vcp	Yes
840	AF080594	vascular endothelial growth factor A	Vegfa	Yes
841	NM_012759	vav 1 oncogene	Vav1	Yes
842	NM_021687	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	ErbB4	No
843	NM_017003	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	ErbB2	No
844	NM_012555	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	Ets1	No
845	NM_031140	vimentin	Vim	Yes
846	AF268467	voltage-dependent anion channel 1	Vdac1	No
847	NM_012639	v-raf-1 murine leukemia viral oncogene homolog 1	Raf1	Yes
848	BF283772	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	Rela	Yes
849	NM_022548	wild-type p53-induced gene 1	Wig1	Yes
850	NM_031534	Wilms tumor 1	Wt1	No
851	NM_031590	WNT1 inducible signaling pathway protein 2	Wisp2	Yes
852	BI300732	WW domain-containing oxidoreductase (predicted)	RGD1565791_predicted	No
853	BI282111	Y box protein 1 related, pseudogene 3 /// similar to nuclease sensitive element binding protein 1 (predicted) /// Y box protein 1	RGD1560265_predicted /// Ybx1	No
854	NM_031615	zinc finger protein 148	Zfp148	Yes
855	BE109605	zinc finger protein 162	Zfp162	Yes
856	BE111799	Zinc finger protein 346 (predicted)	Zfp346_predicted	No
857	BM392399	zinc finger protein 622	Zfp622	Yes
858	AA819804	Zinc finger protein 91	Zfp91	Yes
859	BI289543	zinc finger, MYND domain containing 11	Zmynd11	Yes
860	AI317860	zinc responsive protein ZD7	LOC474154	Yes

* Signal detected above background for gene probeset in 20% or more of the chips.