

Supplementary Table 2. Protein identification details of cardiac protein targets of autoantibodies detected by 2-D Western Blot in serum of A.BY/SnJ mice

Label	Protein ID	Protein Name	Accession Number	Protein MW	pI	Peptide count	Protein score
AA_100	DESM	Desmin	IPI00130102	53334.00	5.21	41	885
AA_101	SYDC	Aspartyl-tRNA synthetase	IPI00122743	57081.17	6.07	31	497
AA_102	DESM	Desmin	IPI00130102	53334.00	5.21	28	658
AA_103	TRI72	PREDICTED: similar to tripartite motif protein 50	IPI00462157	52782.97	6.01	28	298
AA_104	SMYD1	Smyd1 protein	IPI00118495	56458.77	6.45	16	152
AA_104	SAM50	Sorting and assembly machinery component 50 homolog	IPI00221608	51930.36	6.48	22	281
AA_105	MYH6	Myosin heavy chain, cardiac muscle alpha isoform	IPI00129404	223426.47	5.57	32	227
AA_106	SAM50	SAM50-like protein CGI-51 homolog	IPI00221608	51930.36	6.48	20	358
AA_107	DESM	Desmin	IPI00130102	53334.00	5.21	29	494
AA_108	MYH6	Myosin heavy chain, cardiac muscle alpha isoform	IPI00129404	223426.47	5.57	34	188
AA_109	ODPX		IPI00222767	53965.23	7.63	20	449
AA_110	ATPB	ATP synthase beta chain, mitochondrial	IPI00468481	56265.46	5.19	25	709
AA_111	ATPB	ATP synthase beta chain, mitochondrial	IPI00468481	56265.46	5.19	12	265
AA_112	ODO2	Dihydrolipoyllysine-residue succinyltransferase component of 2- oxoglutarate dehydroge	IPI00134809	48963.48	9.11	19	447
AA_113	ODO2	Dihydrolipoyllysine-residue succinyltransferase component of 2- oxoglutarate dehydroge	IPI00134809	48963.48	9.11	20	329
AA_114	ALDH2	Aldehyde dehydrogenase, mitochondrial	IPI00111218	56501.75	7.53	25	254
AA_115	UQCR1	Ubiquinol-cytochrome-c reductase complex core protein I, mitochondrial	IPI00111885	52735.43	5.75	27	668
AA_116	GDIB	Splice Isoform 1 of Rab GDP dissociation inhibitor beta-2	IPI00122565	50504.69	5.93	29	342
AA_117	not identified						
AA_118	UQCR1	Ubiquinol-cytochrome-c reductase complex core protein I, mitochondrial	IPI00111885	52735.43	5.75	20	423
AA_119	ENOA	Alpha-enolase	IPI00462072	46980.17	6.36	18	212
AA_120	EF1G	Elongation factor 1-gamma	IPI00318841	49898.12	6.33	15	316

AA_120	ENOA	Alpha-enolase	IPI00462072	46980.17	6.36	23	354
AA_121	PRS7	26S protease regulatory subunit 7	IPI00270326	52833.22	5.97	28	354
AA_122	Q9CXK3	Actin, alpha, cardiac	IPI00480406	41919.86	5.3	22	621
AA_123	NDUS2	NADH-ubiquinone oxidoreductase 49 kDa subunit, mitochondrial	IPI00128023	52591.65	6.52	29	374
AA_124	EFTU	Splice Isoform 1 of Elongation factor Tu, mitochondrial	IPI00274407	49476.97	7.23	29	753
AA_125	ODPA	Pyruvate dehydrogenase E1 component alpha subunit, somatic form, mitochondrial precurs	IPI00337893	43203.63	8.49	23	232
AA_126	Q9CXK3	Actin, alpha, cardiac	IPI00480406	41919.86	5.3	24	620
AA_127	Q9CXK3	Actin, alpha, cardiac	IPI00480406	41919.86	5.3	21	563
AA_128	Q9CXK3	Actin, alpha, cardiac	IPI00480406	41919.86	5.3	17	471
AA_129	SUCB1	Succinyl-CoA ligase [ADP-forming] beta-chain, mitochondrial	IPI00261627	50082.13	6.57	30	522
AA_130	Q3T9C9	Mitochondrial acyl-CoA thioesterase 1	IPI00653566	49625.73	6.88	18	388
AA_131	not identified						
AA_132	MANA	Mannose-6-phosphate isomerase	IPI00125807	46544.73	5.62	10	169
AA_133	ACADL	Long-chain specific acyl-CoA dehydrogenase, mitochondrial	IPI00119114	47877.49	8.53	19	241
AA_134	IVD	Isovaleryl-CoA dehydrogenase, mitochondrial	IPI00471246	46295.87	8.53	25	360
AA_135	TNNT2	Splice Isoform A1 of Troponin T, cardiac muscle	IPI00336918	34823.70	5.16	16	475
AA_136	TNNT2	Splice Isoform A1 of Troponin T, cardiac muscle	IPI00336918	34823.70	5.16	16	463
AA_137	NDUAA	NADH-ubiquinone oxidoreductase 42 kDa subunit, mitochondrial	IPI00116748	40577.73	7.63	15	309
AA_138	Q91W85	Acyl-Coenzyme A dehydrogenase, short chain Isoform 1 of Isocitrate dehydrogenase [NAD] subunit	IPI00331251	44861.10	8.68	18	450
AA_139	IDH3A	alpha, mitochondrial	IPI00459725	39613.06	6.27	15	182
AA_140	ARHL1	ADP-ribosylhydrolase like 1	IPI00221629	39859.53	5.62	14	126
AA_141	IDH3A	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precur	IPI00459725	39613.06	6.27	20	500
AA_142	IDH3A	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precur	IPI00459725	39613.06	6.27	20	523
AA_143	LDHB	L-lactate dehydrogenase B chain	IPI00229510	36417.99	5.7	24	491

AA_144	TPM1	Splice Isoform 1 of Tropomyosin 1 alpha chain	IPI00123316	32660.67	4.69	18	260
AA_145	ODPB	Pyruvate dehydrogenase E1 component beta subunit, mitochondrial	IPI00132042	38912.02	6.41	18	477
AA_146	MDHC	Malate dehydrogenase, cytoplasmic	IPI00336324	36323.05	6.16	14	406
AA_147	CLYBL	Citrate lyase beta subunit	IPI00153903	37494.77	8.76	15	255
AA_149	PHB	Prohibitin	IPI00133440	29801.90	5.57	6	38
AA_150	Q9JHW2	Nit protein 2	IPI00119945	30482.60	6.44	14	402
AA_151	NDUS3	NADH-ubiquinone oxidoreductase 30 kDa subunit, mitochondrial	IPI00121309	30188.54	6.4	15	490
AA_152	GDIR	Rho GDP-dissociation inhibitor 1	IPI00322312	23392.81	5.12	12	152
AA_153	GDIS	Rho GDP-dissociation inhibitor 2	IPI00122568	22836.49	4.97	7	218
AA_154	PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial	IPI00116192	28109.41	7.15	11	221
AA_16	Q9JHW2	Nit protein 2	IPI00119945	30482.60	6.44	14	214
AA_17	MYH6	Myosin-6	IPI00129404	223426.47	5.57	28	156
AA_18	MYH6	Myosin-6	IPI00129404	223426.47	5.57	24	81
AA_19	MYH6	Myosin-6	IPI00129404	223426.47	5.57	32	140
AA_20	MYH6	Myosin-6	IPI00129404	223426.47	5.57	22	112
AA_21	MYH6	Myosin-6	IPI00129404	223426.47	5.57	24	109
AA_22	ODO1	Oxoglutarate dehydrogenase	IPI00719841	115953.26	6.51	26	207
AA_23	Q5FW75	Actinin alpha 2	IPI00387557	103768.32	5.31	28	163
AA_24	MYH6	Myosin-6	IPI00129404	223426.47	5.57	28	84
AA_25	Q5FW75	Actinin alpha 2	IPI00387557	103768.32	5.31	31	219
AA_26	Q5FW75	Actinin alpha 2	IPI00387557	103768.32	5.31	31	191
AA_27	PDC6I	Splice Isoform 3 of Programmed cell death 6-interacting protein	IPI00323483	96698.51	6.15	26	201
AA_28	EF2	Elongation factor 2	IPI00466069	95121.84	6.42	27	227
AA_29	EF2	Elongation factor 2	IPI00466069	95252.88	6.41	35	338
AA_30	MYH6	Myosin-6	IPI00129404	223426.47	5.57	31	162
AA_31	MYH6	Myosin-6	IPI00129404	223426.47	5.57	22	108
AA_32	MYH6	Myosin-6	IPI00129404	223426.47	5.57	24	123
AA_33	MYH6	Myosin-6	IPI00129404	223426.47	5.57	21	91
AA_34	MYH6	Myosin-6	IPI00129404	223426.47	5.57	30	88

AA_35	MYH6	Myosin-6	IPI00129404	223426.47	5.57	25	92
AA_36	not identified						
AA_37	TRFE	Serotransferrin	IPI00139788	76673.72	6.94	43	609
AA_38	TRFE	Serotransferrin	IPI00139788	76673.72	6.94	26	178
AA_39	PLAK	Junction plakoglobin	IPI00229475	81748.78	5.75	16	90
AA_40	TRFE	Serotransferrin	IPI00139788	76673.72	6.94	42	631
AA_41	MYH6	Myosin-6	IPI00129404	223426.47	5.57	21	115
AA_42	MYH6	Myosin-6	IPI00129404	223426.47	5.57	22	106
AA_43	Q3TLV2	TRANSGLUTAMINASE 2, C POLYPEPTIDE	IPI00387333	77026.31	5.02	32	524
AA_44	NDUS1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	IPI00308882	79697.54	5.51	43	653
AA_45	RADI	Radixin	IPI00625672	68369.29	5.92		
AA_46	DNM1L	Isoform 3 of Dynamin-1-like protein	IPI00556781	77962.11	6.36	16	71
AA_47	not identified						
AA_48	NDUS1	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	IPI00308882	79697.54	5.51	32	365
AA_50	MYH6	Myosin-6	IPI00129404	223426.47	5.57	35	213
AA_51	MYH6	Myosin-6	IPI00129404	223426.47	5.57	25	99
AA_52	not identified						
AA_53	MYH6	Myosin-6	IPI00129404	223426.47	5.57	25	65
AA_54	MOES	Moesin	IPI00110588	67593.84	6.24	23	289
AA_55	GRP75	Stress-70 protein, mitochondrial	IPI00133903	73482.73	5.91	35	738
AA_56	GRP75	Stress-70 protein, mitochondrial	IPI00133903	73482.73	5.91	18	327
AA_57	PCCA	Propionyl-CoA carboxylase alpha chain, mitochondrial	IPI00330523	79871.10	6.83	40	556
AA_58	#NV	71 kDa protein	IPI00480560	70926.29	5.43	25	299
AA_59	ACS2L	Acetyl-coenzyme A synthetase 2-like, mitochondrial	IPI00469942	74575.79	6.51	25	458
AA_60	not identified						
AA_61	#NV	similar to heat shock protein 8	IPI00753407	76463.24	5.7	32	572
AA_62	ALBU	Serum albumin	IPI00131695	68647.71	5.75	22	445
AA_63	IMMT	Isoform 2 of Mitochondrial inner membrane protein	IPI00381412	82877.69	6.18	32	495

AA_64	IMMT	INNER MEMBRANE PROTEIN, MITOCHONDRIAL	IPI00381413	82365.43	6.26	19	121
AA_65	not identified						
AA_66	KNG1	Isoform LMW of Kininogen-1	IPI00129225	47867.60	5.74	16	246
AA_67	ALBU	Serum albumin	IPI00131695	68647.71	5.75	25	409
AA_68	DHSA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	IPI00230351	72539.17	7.06	33	443
AA_69	DHSA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	IPI00230351	72539.17	7.06	40	778
AA_70	MYH6	Myosin-6	IPI00129404	223426.47	5.57	26	99
AA_71	MYH6	Myosin heavy chain, cardiac muscle alpha isoform	IPI00129404	223426.47	5.57	36	390
AA_72	#NV	PREDICTED: similar to heat shock protein 8	IPI00753407	76463.24	5.7	31	775
AA_73	DHSA	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	IPI00230351	72539.17	7.06	37	567
AA_74	ODP2	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	IPI00153660	67902.67	8.81	25	499
AA_75	MYH6	Myosin-6	IPI00129404	223426.47	5.57	25	61
AA_76	MYH6	Myosin-6	IPI00129404	223426.47	5.57	24	89
AA_77	not identified						
AA_78	ODP2	Dihydrolipoamide acetyltransferase (EC 2.3.1.12) homolog	IPI00153660	67898.68	8.81	21	345
AA_79	EHD4	EH-domain containing protein 4	IPI00318671	61441.45	6.33	16	225
AA_80	#NV	222 kDa protein	IPI00122737	222236.98	5.61		
AA_81	MYH6	Myosin-6	IPI00129404	223426.47	5.57	24	158
AA_82	ETFD	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	IPI00121322	68047.61	7.34	24	552
AA_83	2AAA	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	IPI00310091	65149.89	5	28	427
AA_84	PGM1	Phosphoglucomutase-1	IPI00555140	61347.63	6.32	31	522
AA_85	ETFD	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	IPI00121322	68047.61	7.34	16	279
AA_86	PGM1	Phosphoglucomutase-1	IPI00555140	61347.63	6.32	33	446

AA_87	EHD1	EH domain-containing protein 1	IPI00126083	60564.63	6.35	25	189
AA_88	PGM5	PhosPhoglucomutase 5	IPI00269750	62180.67	6.77	27	372
AA_89	MYH6	Myosin-6	IPI00129404	223426.47	5.57	25	125
AA_90	PDIA3	Protein disulfide isomerase associated 3	IPI00230108	56642.68	5.88	26	360
AA_91	TBA2	Tubulin alpha-2 chain	IPI00117348	50119.60	4.94	20	210
AA_92	FIBB	Fibrinogen beta chain	IPI00279079	54717.69	6.68	16	191
AA_93	COR1A	Coronin-1A	IPI00323600	50956.91	6.05	19	245
AA_94	DLDH	DIHYDROLIPOYL DEHYDROGENASE	IPI00331564	54564.32	7.25	19	241
AA_95	MYH6	Myosin heavy chain, cardiac muscle alpha isoform	IPI00129404	222891.34	5.63	13	87
AA_96	DLDH	Dihydrolipoyl dehydrogenase, mitochondrial	IPI00115569	54178.13	7.97	16	175
AA_97	TBB5	Tubulin beta-5 chain	IPI00117352	49638.97	4.78	30	488
AA_98	not identified						
AA_99	ATPB	ATP synthase beta chain, mitochondrial	IPI00468481	56265.46	5.19	28	755
AB_100	not identified						
AB_101	not identified						
AB_102	not identified						
AB_103	not identified						
AB_104	not identified						
AB_105	not identified						
AB_16	EF2	Elongation factor 2	IPI00466069	95121.84	6.42	43	621
AB_17	ACON	Aconitate hydratase, mitochondrial	IPI00116074	85410.02	8.08	41	809
AB_18	ACON	Aconitate hydratase, mitochondrial	IPI00116074	85410.02	8.08	38	743
AB_19	ACON	Aconitate hydratase, mitochondrial	IPI00116074	85410.02	8.08	39	739
AB_20	TRFE	Serotransferrin	IPI00139788	76673.72	6.94	49	794
AB_21	TRFE	Serotransferrin	IPI00139788	76673.72	6.94	47	724
AB_22	Q3TB39	Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A h	IPI00223092	82591.41	9.24	40	713
AB_23	MOES	Moesin	IPI00110588	67593.84	6.24	40	438
AB_24	IMMT	Isoform 2 of Mitochondrial inner membrane protein	IPI00381412	82877.69	6.18	38	866

		Succinate dehydrogenase [ubiquinone] flavoprotein					
AB_25	DHSA	subunit, mitochondrial	IPI00230351	72539.17	7.06	32	592
AB_26	EHD4	EH-domain containing 4-KJR (Fragment)	IPI00318671	61612.54	6.33	32	471
		Very-long-chain specific acyl-CoA dehydrogenase,					
AB_27	ACADV	mitochondrial	IPI00119203	70953.79	8.91	40	851
		Electron transfer flavoprotein-ubiquinone					
AB_28	ETFD	oxidoreductase, mitochondrial	IPI00121322	68047.61	7.34	29	604
AB_29	PGM1	Phosphoglucomutase-1	IPI00555140	61347.63	6.32	26	362
AB_30	KPYM	Pyruvate kinase isozyme M2	IPI00407130	57966.07	7.18	35	546
AB_31	KPYM	Pyruvate kinase isozyme M2	IPI00407130	57966.07	7.18	29	333
AB_32	DLDH	Dihydrolipoyl dehydrogenase, mitochondrial	IPI00115569	54178.13	7.97	21	487
AB_33	DLDH	DIHYDROLIPOYL DEHYDROGENASE	IPI00331564	54564.32	7.25	10	105
AB_34	EF1A2	Elongation factor 1-alpha 2	IPI00119667	50422.31	9.11	18	278
AB_35	DLDH	Dihydrolipoyl dehydrogenase, mitochondrial	IPI00115569	54178.13	7.97	21	487
		Succinyl-CoA:3-ketoacid-coenzyme A transferase 1,					
AB_36	SCOT	mitochondrial	IPI00132653	55953.00	8.73	20	425
AB_37	ATPA	ATP synthase subunit alpha, mitochondrial	IPI00130280	59715.59	9.22	36	795
AB_38	ATPA	ATP synthase subunit alpha, mitochondrial	IPI00130280	59715.59	9.22	36	813
AB_39	ATPA	ATP synthase subunit alpha, mitochondrial	IPI00130280	59715.59	9.22	36	795
AB_40	SMYD1	Smyd1 protein	IPI00118495	56458.77	6.45	20	174
AB_41	ATPA	ATP synthase subunit alpha, mitochondrial	IPI00130280	59715.59	9.22	36	795
AB_42	ATPA	ATP synthase subunit alpha, mitochondrial	IPI00130280	59715.59	9.22	34	655
		PREDICTED: similar to Glutamate dehydrogenase 1,					
AB_43	#NV	mitochondrial (GDH) isoform	IPI00753095	54184.54	7.66	26	603
AB_44	EF1A2	Elongation factor 1-alpha 2	IPI00119667	50422.31	9.11	18	278
		NADH dehydrogenase [ubiquinone] flavoprotein 1,					
AB_45	NDUV1	mitochondrial	IPI00130460	50801.72	8.51	28	598
AB_46	ENOB	Beta-enolase	IPI00228548	46864.26	6.81	29	561
AB_47	ECHB	Trifunctional enzyme subunit beta, mitochondrial	IPI00115607	51584.51	9.43	31	547
		Isoform Cytoplasmic of Fumarate hydratase,					
AB_48	FUMH	mitochondrial	IPI00759940	50034.68	7.75	20	472

AB_49	FUMH	Isoform Cytoplasmic of Fumarate hydratase, mitochondrial	IPI00759940	50034.68	7.75	16	399
AB_50	FUMH	Isoform Cytoplasmic of Fumarate hydratase, mitochondrial	IPI00759940	50034.68	7.75	23	511
AB_51	ODPA	Pyruvate dehydrogenase E1 component alpha subunit, somatic form, mitochondrial precurs	IPI00337893	43203.63	8.49	30	507
AB_52	EFTU	Isoform 1 of Elongation factor Tu, mitochondrial	IPI00274407	49476.97	7.23	28	780
AB_53	#NV	Isoform 1 of Isocitrate dehydrogenase [NADP], mitochondrial	IPI00798455	58734.79	8.56	32	372
AB_54	KCRS	Creatine kinase, sarcomeric mitochondrial	IPI00120076	47443.32	8.64	28	601
AB_55	Q3TIT9	Acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	IPI00653158	41803.44	8.33	26	511
AB_56	UQCR2	Ubiquinol-cytochrome-c reductase complex core protein 2, mitochondrial	IPI00119138	48205.01	9.26	19	430
AB_57	UQCR2	Ubiquinol-cytochrome-c reductase complex core protein 2, mitochondrial	IPI00119138	48205.01	9.26	16	465
AB_58	ACADL	Long-chain specific acyl-CoA dehydrogenase, mitochondrial	IPI00119114	47877.49	8.53	22	371
AB_59	ACADL	Long-chain specific acyl-CoA dehydrogenase, mitochondrial	IPI00119114	47877.49	8.53	27	454
AB_60	PGK1	Phosphoglycerate kinase 1	IPI00230002	44521.98	8.02	16	267
AB_61	ACADM	Medium-chain specific acyl-CoA dehydrogenase, mitochondrial	IPI00134961	46451.62	8.6	27	533
AB_62	IVD	Isovaleryl-CoA dehydrogenase, mitochondrial	IPI00471246	46295.87	8.53	20	225
AB_63	KCRM	Creatine kinase M-type	IPI00127596	43017.80	6.58	29	627
AB_64	THIL	Acetyl-CoA acetyltransferase, mitochondrial	IPI00154054	44787.34	8.71	18	222
AB_65	AATM	Aspartate aminotransferase, mitochondrial	IPI00117312	47381.21	9.13	27	567
AB_66	THIL	Acetyl-CoA acetyltransferase, mitochondrial	IPI00154054	44787.34	8.71	17	259
AB_67	not identified						
AB_68	IDH3G	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial	IPI00109169	42758.17	9.17	16	484
AB_69	ALDOA	Fructose-bisphosphate aldolase A	IPI00221402	39200.23	8.39	26	535
AB_70	AATC	Aspartate aminotransferase, cytoplasmic	IPI00230204	46071.44	6.75	27	599

AB_71	#NV	Tumor-related protein	IPI00126635	42167.65	8.76	19	158
AB_72	Q91W85	Acyl-Coenzyme A dehydrogenase, short chain	IPI00331251	44861.10	8.68	19	474
AB_73	G3P	Glyceraldehyde-3-phosphate dehydrogenase	IPI00273646	35656.17	8.45	22	515
AB_74	MDHM	Malate dehydrogenase 2, NAD	IPI00331590	35588.76	8.93	25	747
AB_75	G3P	Glyceraldehyde-3-phosphate dehydrogenase	IPI00273646	35656.17	8.45	16	286
AB_76	ALDR	Aldose reductase	IPI00223757	35578.41	6.79	18	457
AB_77	ANXA2	Annexin A2	IPI00468203	38520.80	7.53	24	616
AB_78	FHL2	Four and a half LIM domains protein 2	IPI00118205	32050.53	7.31	31	498
AB_79	HCDH	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial	IPI00121105	34441.88	8.76	18	376
AB_80	VDAC1	Isoform Mt-VDAC1 of Voltage-dependent anion-selective channel protein 1	IPI00230540	30736.57	8.62	22	681
AB_81	CLYBL	Citrate lyase beta subunit	IPI00153903	37494.77	8.76	13	227
AB_81	ETFA	ELECTRON TRANSFER FLAVOPROTEIN SUBUNIT ALPHA, MITOCHONDRIAL	IPI00607901	35015.55	8.77	12	190
AB_82	ETFA	ELECTRON TRANSFER FLAVOPROTEIN SUBUNIT ALPHA, MITOCHONDRIAL	IPI00607901	35015.55	8.77	24	573
AB_83	ETFA	Electron transferring flavoprotein, alpha polypeptide	IPI00607901	35015.55	8.77	16	552
AB_84	Q8C2Q8	ATP SYNTHASE, H+ TRANSPORTING, MITOCHONDRIAL F1 COMPLEX, GAMMA POLYPEPTIDE 1	IPI00750074	30236.80	8.86	15	492
AB_85	Q8C253	Lectin, galactose binding, soluble 3	IPI00224486	27397.50	8.57	10	343
AB_86	ETFB	Electron transfer flavoprotein subunit beta	IPI00121440	27474.94	8.29	16	581
AB_87	Q8QZV3	Dodecenoyl-Coenzyme A delta isomerase	IPI00331692	32229.80	9.12	18	323
AB_88	PGAM2	Phosphoglycerate mutase 2	IPI00230706	28808.84	8.65	15	297
AB_89	DHSB	Succinate dehydrogenase [ubiquinone] iron-sulfur protein, mitochondrial	IPI00338536	31792.89	8.96	14	160
AB_90	MYH6	Myosin-6	IPI00129404	223426.47	5.57	18	65
AB_91	UCRI	Ubiquinol-cytochrome c reductase iron-sulfur subunit, mitochondrial	IPI00133240	29349.20	8.91	14	335
AB_92	NIPS2	Protein NipSnap2	IPI00115827	32911.85	9.31	11	179
AB_93	ES1	ES1 protein homolog, mitochondrial	IPI00133284	28072.78	9	12	299

AB_94	VDAC1	Isoform Mt-VDAC1 of Voltage-dependent anion-selective channel protein 1	IPI00230540	30736.57	8.62	12	152
AB_95	ATPO	ATP synthase O subunit, mitochondrial	IPI00118986	23348.74	10	10	108
AB_96	not identified						
		NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6					
AB_97	NDUB6		IPI00341322	15505.02	9.79	10	96
AB_98	not identified						
AB_99	H2B1K	Histone H2B type 1-K	IPI00265768	13911.57	10.31	13	221

AA spots in pI range 4-7

AB spots in pI range 6-11

