

## Supplementary Data

SUPPLEMENTARY TABLE S1. PROTEINS IDENTIFIED FROM THE IMMUNOPRECIPITATION COMPLEX OF SIRT3

<i>Accession</i>	<i>#AAs</i>	<i>MW [kDa]</i>	<i>Calc. pI</i>	<i>Description</i>
IPI:IPI00110850.1	375	41.7	5.48	Actin
IPI:IPI00130280.1	553	59.7	9.19	ATP synthase subunit beta
IPI:IPI00319992.1	655	72.4	5.16	78 kDa glucose-regulated protein
IPI:IPI00308885.6	573	60.9	6.18	Isoform 1 of 60 kDa heat shock protein
IPI:IPI00468481.2	529	56.3	5.34	ATP synthase subunit alpha
IPI:IPI00407339.7	103	11.4	11.36	Histone H4
IPI:IPI00138691.6	168	19.7	8.43	Actin-related protein 2/3 complex subunit 4
IPI:IPI00229544.3	128	13.9	11.03	Histone H2A type 1-H
IPI:IPI00403810.2	449	49.9	5.10	Tubulin alpha-1C chain
IPI:IPI00110753.1	451	50.1	5.06	Tubulin alpha-1A chain
IPI:IPI00117348.4	451	50.1	5.06	Tubulin alpha-1B chain
IPI:IPI00230108.6	505	56.6	6.21	Protein disulfide-isomerase A3
IPI:IPI00114642.4	126	13.9	10.32	Histone H2B type 1-F/J/L
IPI:IPI00227930.3	126	13.9	10.32	Histone H2B type 1-H
IPI:IPI00129526.1	802	92.4	4.82	Endoplasmic
IPI:IPI01027670.1	37	4.5	10.40	5 kDa protein
IPI:IPI00467441.3	234	26.1	5.95	BTB/POZ domain-containing protein KCTD5
IPI:IPI00133522.2	509	57.0	4.88	Protein disulfide-isomerase
IPI:IPI00115627.4	418	47.3	5.88	Actin-related protein 3
IPI:IPI00129430.1	699	75.4	9.44	Splicing factor, proline- and glutamine-rich
IPI:IPI00323357.3	646	70.8	5.52	Heat shock cognate 71 kDa protein
IPI:IPI00117352.1	444	49.6	4.89	Tubulin beta-5 chain
IPI:IPI00987238.1	96	10.8	5.14	Protein S100-A11-like
IPI:IPI00123639.1	416	48.0	4.49	Calreticulin
IPI:IPI00850020.1	219	24.1	7.33	If kappa light chain (Fragment)
IPI:IPI00127841.3	298	32.9	9.73	ADP/ATP translocase 2
IPI:IPI00986015.1	432	47.2	6.71	Protein disulfide-isomerase A6-like
IPI:IPI01027291.1	94	10.7	6.51	11 kDa protein
IPI:IPI00459493.5	556	60.4	6.16	Isoform 1 of T-complex protein 1 subunit alpha
IPI:IPI00119478.1	352	39.5	5.14	Tropomodulin-3
IPI:IPI00759948.1	731	80.7	5.76	Isoform 2 of Gelsolin
IPI:IPI00875408.1	263	28.6	5.29	BTB/POZ domain-containing protein KCTD2
IPI:IPI00454008.1	504	55.7	8.46	Serine hydroxymethyltransferase
IPI:IPI00229845.3	637	72.6	6.42	Protein arginine N-methyltransferase 5
IPI:IPI00466069.3	858	95.3	6.83	Elongation factor 2
IPI:IPI00320217.9	535	57.4	6.40	T-complex protein 1 subunit beta
IPI:IPI00987580.1	164	18.0	6.68	Peptidyl-prolyl <i>cis-trans</i> isomerase
IPI:IPI00222546.5	128	14.7	9.19	60S ribosomal protein L22
IPI:IPI00123181.4	1960	226.2	5.66	Myosin-9
IPI:IPI00222228.5	538	58.2	8.25	Hypothetical protein
IPI:IPI00968349.1	334	36.6	7.44	NAD-dependent deacetylase sirtuin-3 isoform 3
IPI:IPI00462232.3	146	16.1	4.96	Myosin light polypeptide 6-like
IPI:IPI00124820.2	474	53.1	7.08	Coronin-1C
IPI:IPI00117705.2	441	49.0	5.83	Protein glycosyltransferase 48 kDa subunit
IPI:IPI00130391.1	246	26.1	4.94	Protease, serine, 1
IPI:IPI00113427.3	148	16.8	9.41	Lysozyme C-1
IPI:IPI00169870.6	617	71.0	7.28	Procollagen galactosyltransferase
IPI:IPI01027176.1	509	54.8	8.02	55 kDa protein
IPI:IPI00115564.5	298	32.9	9.72	ADP/ATP translocase 1
IPI:IPI00554929.3	724	83.2	5.03	Heat shock protein HSP 90-beta
IPI:IPI00225961.5	533	56.5	6.54	D-3-phosphoglycerate dehydrogenase
IPI:IPI00830215.1	324	35.7	7.40	Ig gamma-1 chain C region secreted form
IPI:IPI00831369.1	2092	244.1	5.44	MKIAA4049 protein
IPI:IPI00124771.1	357	39.6	9.26	Phosphate carrier protein
IPI:IPI00469268.5	548	59.5	5.62	T-complex protein 1 subunit theta
IPI:IPI00223713.5	212	21.3	11.00	Histone H1.2
IPI:IPI00224518.2	216	23.4	8.41	Ras-related protein Rab-5C

(continued)

SUPPLEMENTARY TABLE S1 (CONTINUED)

<i>Accession</i>	<i>#AAs</i>	<i>MW [kDa]</i>	<i>Calc. pI</i>	<i>Description</i>
IPI:IPI00318841.4	437	50.0	6.74	Elongation factor 1-gamma
IPI:IPI00798571.2	929	103.1	8.02	Isoform 2 of SCY1-like protein 2
IPI:IPI00229475.1	745	81.7	6.14	Junction plakoglobin
IPI:IPI00119618.1	591	67.2	4.64	Calnexin
IPI:IPI00808433.1	260	29.5	6.02	Isoform 2 of Fatty acyl-CoA reductase 1
IPI:IPI00331516.4	660	72.4	4.44	Isoform E2 of Drebrin
IPI:IPI00114819.3	342	36.9	5.27	Methylosome protein 50
IPI:IPI00131674.3	247	26.4	7.93	Trypsinogen 7
IPI:IPI00130920.2	2464	270.1	4.83	Microtubule-associated protein 1B
IPI:IPI00131695.3	608	68.6	6.07	Serum albumin
IPI:IPI00309035.2	608	68.5	6.46	Protein glycosyltransferase subunit 1
IPI:IPI00515398.1	1976	228.9	5.54	Myosin-10
IPI:IPI00845858.1	201	22.2	6.96	Isoform 2 of dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex
IPI:IPI00127406.1	741	84.9	6.23	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3
IPI:IPI00320850.3	717	79.3	7.83	Methylcrotonoyl-CoA carboxylase subunit alpha
IPI:IPI00119020.1	222	25.1	5.97	Charged multivesicular body protein 2a
IPI:IPI00126943.1	465	54.1	7.34	Serine/threonine-protein kinase 38
IPI:IPI00918500.1	737	84.4	6.89	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
IPI:IPI00317289.8	460	52.2	7.69	Isoform 2 of dynactin subunit 4
IPI:IPI00875833.2	977	105.7	7.02	Monofunctional C1-tetrahydrofolate synthase
IPI:IPI00227865.1	1938	223.1	5.47	Isoform 2 of myosin-11
IPI:IPI00754386.4	464	54.1	6.54	ERO1-like protein alpha
IPI:IPI00944068.1	580	64.6	5.64	Peptidyl-prolyl <i>cis-trans</i> isomerase FKBP10 isoform 2
IPI:IPI00381682.1	313	34.9	9.35	Solute carrier family 35 member E3
IPI:IPI00119581.2	327	34.3	10.24	rRNA 2'-O-methyltransferase fibrillar
IPI:IPI00750260.1	1174	126.4	4.65	Isoform 2 of fibulin-2
IPI:IPI00753815.3	2472	284.4	5.33	Isoform 1 of spectrin alpha chain
IPI:IPI00307837.6	462	50.1	9.01	Elongation factor 1-alpha 1
IPI:IPI00380009.2	699	78.1	6.90	Isoform 3 of SUN domain-containing protein 2
IPI:IPI00387580.2	674	75.4	6.34	Isoform 1 of gamma-adducin
IPI:IPI00124111.1	728	80.8	8.91	Plakophilin-1
IPI:IPI00135996.5	587	67.7	6.23	Protein POF1B
IPI:IPI00323881.2	876	97.1	4.78	Importin subunit beta-1
IPI:IPI00464208.3	512	57.4	9.52	Isoform 2 of ATPase family AAA domain-containing protein 3
IPI:IPI00762897.3	1551	176.3	5.62	UDP-glucose:glycoprotein glycosyltransferase 1
IPI:IPI00114641.3	526	58.3	5.91	4F2 cell-surface antigen heavy chain
IPI:IPI00133265.1	394	44.8	7.80	Ceramide glycosyltransferase
IPI:IPI00381611.5	756	85.3	7.68	A disintegrin and metalloproteinase domain 6-like
IPI:IPI00974712.1	2271	250.1	6.15	Fn1 protein
IPI:IPI01007978.1	1114	124.6	5.25	Eukaryotic translation initiation factor 2-alpha kinase 3 precursor
IPI:IPI00458077.2	756	83.5	6.86	Neutral ceramidase
IPI:IPI00338793.5	954	109.3	6.55	Isoform 1 of paired amphipathic helix protein Sin3b
IPI:IPI00608115.1	1240	138.4	9.36	Isoform 6 of zinc finger protein
IPI:IPI00974853.1	4386	498.8	5.68	Plectin isoform Ihj

AAs, amino acids; MW, molecular weight; *pI*, isoelectric point; ATP, adenosine triphosphate.