

## SUPPLEMENTAL MATERIAL

Supplementary Table S1a. List of proteins found in DRMs.

Common proteins					
Accession No	Protein name	Folch method		Aceton ppt	
		Score	Unique peptide	Score	Unique peptide
P11442	<b>Clathrin heavy chain 1</b>	438	27	427	27
P06687	Sodium/potassium-transporting ATPase subunit alpha-3	413	23	328	18
P16086	Spectrin alpha chain, brain	308	20	458	28
Q63198	Contactin-1 precursor	306	19	360	23
P68372	Tubulin beta-2C chain	283	17	266	15
P39053	Dynamin-1	275	18	282	18
P63017	Heat shock cognate 71 kDa protein	273	16	329	18
O08553	Dihydropyrimidinase-related protein 2	269	16	276	17
P50516	<b>Vacuolar ATP synthase catalytic subunit A</b>	260	14	240	14
P38650	Cytoplasmic dynein 1 heavy chain 1	214	16	341	25
Q62261	Spectrin beta chain, brain 1	203	14	344	22
P62814	<b>Vacuolar ATP synthase subunit B, brain isoform</b>	201	12	261	16
P05213	Tubulin alpha-1B chain	183	11	158	10
P11980	Pyruvate kinase isozymes M1/M2	176	12	158	10
P59215	Guanine nucleotide-binding protein G(o) subunit alpha	166	9	214	12
P82995	<b>Heat shock protein HSP 90-alpha</b>	152	10	232	15
Q9Z1G4	Vacuolar proton translocating ATPase 116 kDa subunit a isoform 1	151	9	128	8
O08599	Syntaxin-binding protein 1	148	10	143	9
P97846	<b>Contactin-associated protein 1 precursor</b>	147	11	102	7
P07335	Creatine kinase B-type	139	8	147	8
P15999	<b>ATP synthase subunit alpha, mitochondrial precursor</b>	133	9	139	9
P10860	Glutamate dehydrogenase 1, mitochondrial precursor	132	9	142	10
P54290	Voltage-dependent calcium channel subunit alpha-2/delta-1 precursor	130	9	148	10
Q05546	Tenascin-R precursor	128	8	182	12
P63101	<b>14-3-3 protein zeta/delta</b>	127	8	126	8
P54311	<b>Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1</b>	125	8	24	2

Q8R366	Immunoglobulin superfamily member 8 precursor	124	8	95	6
P13596	Neural cell adhesion molecule 1, 140 kDa isoform precursor	122	7	104	7
Q8CI94	Glycogen phosphorylase, brain form	119	9	135	9
P63259	Actin, cytoplasmic 2	117	6	147	8
P04797	<b>Glyceraldehyde-3-phosphate dehydrogenase</b>	113	7	175	12
P09117	Fructose-bisphosphate aldolase C	110	6	125	8
P10719	<b>ATP synthase subunit beta, mitochondrial precursor</b>	109	7	115	7
Q9Z1E1	<b>Flotillin-1</b>	106	8	115	8
P17427	AP-2 complex subunit alpha-2	104	6	156	10
P11506	Plasma membrane calcium-transporting ATPase 2	103	6	109	6
P12369	cAMP-dependent protein kinase type II-beta regulatory subunit	99	6	88	5
P60879	Synaptosomal-associated protein 25	98	5	173	10
P42123	L-lactate dehydrogenase B chain	97	6	135	9
P61264	Syntaxin-1B	96	6	139	8
Q99PJ0	Neurotrimin precursor	87	6	40	3
Q61316	Heat shock 70 kDa protein 4	86	6	64	5
P13233	2',3'-cyclic-nucleotide 3'-phosphodiesterase	84	6	124	9
P07323	Gamma-enolase	82	5	60	4
P15205	Microtubule-associated protein 1B	80	5	134	9
P12785	Fatty acid synthase	77	5	96	6
Q9QUL6	Vesicle-fusing ATPase	77	5	140	10
P19627	Guanine nucleotide-binding protein G(z) subunit alpha	75	4	86	5
Q6P502	T-complex protein 1 subunit gamma	75	5	64	4
P11275	Calcium/calmodulin-dependent protein kinase type II alpha chain	74	5	88	6
P47819	Glial fibrillary acidic protein	72	5	75	5
O35303	Dynamin-1-like protein	68	4	93	5
Q8BGN3	Ectonucleotide pyrophosphatase/phosphodiesterase family member 6 precursor	66	4	99	6
Q9ERB4	Versican core protein precursor	66	4	53	3
P60202	Myelin proteolipid protein	65	4	45	3
P51863	Vacuolar proton pump subunit d 1	63	4	64	4
P48500	Triosephosphate isomerase	63	4	66	4
Q9Z0J8	Neuronal growth regulator 1 precursor	61	5	30	2

Q9Z2S9	<b>Flotillin-2</b>	60	4	46	4
P21279	<b>Guanine nucleotide-binding protein G(q) subunit alpha</b>	60	4	60	4
P63044	Vesicle-associated membrane protein 2	59	3	65	3
P32736	<b>Opioid-binding protein/cell adhesion molecule precursor</b>	59	4	44	3
P02688	Myelin basic protein S	59	4	109	7
Q8BVE3	Vacuolar proton pump subunit H	59	4	51	3
P50518	Vacuolar proton pump subunit E 1	59	4	126	8
P50398	Rab GDP dissociation inhibitor alpha	57	4	84	5
P09606	Glutamine synthetase	57	4	34	2
Q07310	Neurexin-3-alpha precursor	57	5	40	2
P15146	Microtubule-associated protein 2	55	4	122	8
P45592	<b>Cofilin-1</b>	55	3	58	3
P46462	Transitional endoplasmic reticulum ATPase	55	3	97	7
Q9Z2Q6	Septin-5	54	3	58	4
Q8CFG6	Voltage-dependent calcium channel subunit alpha-2/delta-2 precursor	54	4	43	3
P02091	Hemoglobin subunit beta-1	53	3	54	3
P02770	Serum albumin precursor	53	4	75	5
P01830	<b>Thy-1 membrane glycoprotein precursor</b>	53	3	51	4
Q8K0U4	Heat shock 70 kDa protein 12A	53	4	52	4
Q05175	Brain acid soluble protein 1	52	3	75	4
P32851	<b>Syntaxin 1</b>	<b>52</b>	<b>3</b>	<b>50</b>	<b>3</b>
Q08163	Adenylyl cyclase-associated protein 1	52	3	40	2
P62835	Ras-related protein Rap-1A precursor	52	3	54	3
P07340	<b>Sodium/potassium-transporting ATPase subunit beta-1</b>	51	3	36	2
Q63345	<b>Myelin-oligodendrocyte glycoprotein precursor</b>	51	4	31	2
Q8CFG5	Voltage-dependent calcium channel subunit alpha-2/delta-3 precursor	51	3	54	3
P62908	40S ribosomal protein S3	50	4	46	4
P84091	AP-2 complex subunit mu-1	50	4	51	4
Q9DBG3	AP-2 complex subunit beta-1	49	3	69	5
P02401	60S acidic ribosomal protein P2	48	3	36	2
P63328	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	48	4	51	4
Q8BLK3	Limbic system-associated membrane protein precursor	48	3	56	4

P22063	<b>Contactin-2 precursor</b>	46	3	58	5
P24942	Excitatory amino acid transporter 1	45	3	40	2
O55131	Septin-7	45	3	44	3
P08461	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial precursor	45	3	69	4
P08551	Neurofilament light polypeptide	44	3	54	4
P63321	<b>Ras-related protein Ral-A precursor</b>	44	3	40	3
P18421	Proteasome subunit beta type-1 precursor	44	3	47	3
P16638	ATP-citrate synthase	43	4	54	4
Q62420	<b>Endophilin-A1</b>	41	3	48	3
P63038	60 kDa heat shock protein, mitochondrial precursor	41	3	58	4
P49432	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial precursor	40	3	57	4
Q01062	cGMP-dependent 3',5'-cyclic phosphodiesterase	40	3	30	2
P63001	Ras-related C3 botulinum toxin substrate 1 precursor	39	3	36	3
Q9QYC0	Alpha-adducin	38	3	25	2
P41123	60S ribosomal protein L13	38	3	47	3
Q05140	Clathrin coat assembly protein AP180	37	2	48	3
P05064	<b>Fructose-bisphosphate aldolase A</b>	37	2	67	4
P62754	40S ribosomal protein S6	37	2	36	2
Q9D394	Protein RUFY3	36	3	14	1
P04642	L-lactate dehydrogenase A chain	36	3	54	5
Q9Z0W5	Protein kinase C and casein kinase substrate in neurons protein 1	35	3	42	3
Q04970	GTPase NRas precursor	35	3	37	3
P09812	Glycogen phosphorylase, muscle form	35	3	33	3
P04636	Malate dehydrogenase, mitochondrial precursor	34	2	48	3
Q9WTT4	Vacuolar proton pump subunit G 2	33	2	39	2
P35565	<b>Calnexin precursor</b>	33	2	33	2
Q9JHU0	Dihydropyrimidinase-related protein 5	32	2	55	4
Q6AYH5	Dynactin subunit 2	32	2	35	2
Q6P6R2	<b>Dihydrolipoyl dehydrogenase, mitochondrial precursor</b>	32	3	47	3
P06745	Glucose-6-phosphate isomerase	31	2	26	2
Q8BPN8	DmX-like protein 2	30	2	25	2

P11983	T-complex protein 1 subunit alpha B	30	2	42	4
Q76MZ3	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	30	2	56	4
P42669	Transcriptional activator protein Pur-alpha	30	2	21	1
P35704	Peroxiredoxin-2	28	2	39	3
Q9JI66	Electrogenic sodium bicarbonate cotransporter 1	28	2	40	3
P23358	<b>60S ribosomal protein L12</b>	27	2	28	2
P70704	Probable phospholipid-transporting ATPase IA	27	2	28	2
Q02053	Ubiquitin-like modifier-activating enzyme 1 X	27	2	42	3
P97685	Neurofascin precursor	27	2	25	2
Q02563	Synaptic vesicle glycoprotein 2A	27	2	45	4
Q7TPB1	T-complex protein 1 subunit delta	26	2	25	2
O35737	Heterogeneous nuclear ribonucleoprotein H	26	2	23	2
Q63377	Sodium/potassium-transporting ATPase subunit beta-3	25	2	13	1
P10126	Elongation factor 1-alpha 1	24	2	54	4
Q9WTT6	Guanine deaminase	24	2	32	2
O35098	Dihydropyrimidinase-related protein 4	23	2	26	2
Q68FR6	Elongation factor 1-gamma	23	1	46	3
Q62656	Receptor-type tyrosine-protein phosphatase zeta precursor	22	2	25	2
P62914	60S ribosomal protein L11	22	1	18	1
P62137	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	20	1	19	1
P07722	Myelin-associated glycoprotein precursor	20	1	55	4
P63213	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2 precursor	19	1	17	1
P70168	Importin subunit beta-1	18	1	21	1
Q6PEC4	S-phase kinase-associated protein 1	18	1	19	1
P63081	Vacuolar ATP synthase 16 kDa proteolipid subunit	18	1	18	1
O08838	Amphiphysin	18	1	26	2
P62761	Visinin-like protein 1	18	1	44	3
Q9QYU4	Mu-crystallin homolog	18	1	29	2
P08113	Endoplasmin precursor	18	1	29	2
Q62745	CD81 antigen	17	1	17	1
Q7TQD2	Tubulin polymerization-promoting protein	17	1	18	1

P68181	cAMP-dependent protein kinase catalytic subunit beta	17	1	17	1
P01946	<b>Hemoglobin subunit alpha-1/2</b>	17	1	65	4
Q99PT1	Rho GDP-dissociation inhibitor 1	16	1	19	1
P13084	Nucleophosmin	16	1	17	1
Q9DAS9	<b>Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12 precursor</b>	16	1	16	1
P62900	60S ribosomal protein L31	16	1	17	1
P14148	60S ribosomal protein L7	15	1	16	1
P50153	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4 precursor	15	1	15	1
P57746	Vacuolar proton pump subunit D	15	1	43	3
P26453	<b>Basigin precursor</b>	15	1	18	1
P62242	40S ribosomal protein S8	15	1	16	1
P50408	Vacuolar proton pump subunit F	15	1	41	3
Q61753	D-3-phosphoglycerate dehydrogenase	14	1	39	3
Q9JM76	Actin-related protein 2/3 complex subunit 3	14	1	13	1
Q6VBQ5	<b>Myeloid-associated differentiation marker</b>	14	1	15	1
O55143	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	14	1	32	2
P19944	60S acidic ribosomal protein P1	13	1	16	1
P52481	Adenylyl cyclase-associated protein 2	13	1	14	1
P97536	Cullin-associated NEDD8-dissociated protein 1	13	1	60	4
O54874	Serine/threonine-protein kinase MRCK alpha	12	1	13	1
P80313	T-complex protein 1 subunit eta	12	1	16	1

(a) Common DRM proteins found in two different extraction methods, (b) only by the Folch method or (c) only by acetone precipitation were listed. The previously identified GSAPs, syntaxin1 and basigin (CD147) are marked in blue. Previously reported lipid raft proteins were shown in bold.

**Supplementary Table S1b.** List of proteins found in DRMs.

<b>Folch method</b>			
<b>Accession No</b>	<b>Protein name</b>	<b>Score</b>	<b>Unique peptide</b>
P47857	6-phosphofructokinase, muscle type	139	8
P46097	Synaptotagmin-2	87	6
Q63537	Synapsin-2	73	4
P63011	Ras-related protein Rab-3A	64	4
P61164	Alpha-centractin	51	3
P14152	Malate dehydrogenase, cytoplasmic	48	4
P31596	Excitatory amino acid transporter 2	39	3
P84082	ADP-ribosylation factor 2	33	2
Q9D8W5	26S proteasome non-ATPase regulatory subunit 12	32	2
P12001	60S ribosomal protein L18	32	2
Q9R1T4	Septin-6	32	2
Q80V42	<b>Carboxypeptidase M precursor</b>	31	3
P35803	Neuronal membrane glycoprotein M6-b	29	2
P62631	Elongation factor 1-alpha 2	27	2
P97829	Leukocyte surface antigen CD47 precursor	27	2
O88685	26S protease regulatory subunit 6A	26	2
Q641Y8	ATP-dependent RNA helicase DDX1	25	2
Q9J112	Vesicular glutamate transporter 2	24	2
P10833	<b>Ras-related protein R-Ras precursor</b>	23	2
Q64428	<b>Trifunctional enzyme subunit alpha, mitochondrial precursor</b>	22	2
Q9WV92	Band 4.1-like protein 3	20	2
O35095	Neurochondrin	19	1
P07936	Neuromodulin	19	1
O70251	Elongation factor 1-beta	18	2
O35609	Secretory carrier-associated membrane protein 3	17	1
P35427	60S ribosomal protein L13a	16	1
P39069	Adenylate kinase isoenzyme 1	16	1
Q91XU8	Phosphatidate cytidyltransferase 2	16	1
P27274	CD59 glycoprotein precursor	15	1

Q8CFV4	Neuritin precursor	15	1
Q924N5	Long-chain-fatty-acid--CoA ligase ACSBG1	15	1
P11167	<b>Solute carrier family 2, facilitated glucose transporter member 1</b>	15	1
P09527	Ras-related protein Rab-7a	14	1
P35486	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial precursor	14	1
P23978	Sodium- and chloride-dependent GABA transporter 1	14	1
P28023	Dynactin subunit 1	14	1
P28661	Septin-4	13	1
P00405	<b>Cytochrome c oxidase subunit 2</b>	13	1
Q5DQR4	Syntaxin-binding protein 5-like	12	1



**Supplementary Table S1c.** List of proteins found in DRMs.

<b>Aceton precipitation</b>			
<b>Accession No</b>	<b>Protein name</b>	<b>Score</b>	<b>Unique peptide</b>
P47860	6-phosphofructokinase type C	111	8
P46096	Synaptotagmin-1	110	7
P09951	Synapsin-1	103	7
Q63912	<b>Oligodendrocyte-myelin glycoprotein precursor</b>	54	4
P68254	14-3-3 protein theta	54	3
P62259	14-3-3 protein epsilon	52	4
P80317	<b>T-complex protein 1 subunit zeta</b>	50	4
P61027	Ras-related protein Rab-10	46	3
Q60864	Stress-induced-phosphoprotein 1	44	3
Q3UHL1	CaM kinase-like vesicle-associated protein	39	3
Q794F9	4F2 cell-surface antigen heavy chain	37	3
P12839	Neurofilament medium polypeptide	37	3
Q5SQX6	Cytoplasmic FMR1-interacting protein 2	36	3
Q9QWN8	Spectrin beta chain, brain 2	36	3
Q8R5C5	Beta-centractin	35	2
Q60668	Heterogeneous nuclear ribonucleoprotein D0	32	2
P60764	Ras-related C3 botulinum toxin substrate 3 precursor	31	3
Q91Y81	Septin-2	31	2
Q62871	Cytoplasmic dynein 1 intermediate chain 2	31	2
Q80ZJ1	Ras-related protein Rap-2a precursor	31	2
Q9WTR5	<b>Cadherin-13 precursor</b>	31	2
P18422	Proteasome subunit alpha type-3	30	2
P10687	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta-1	29	2
Q9EPH8	Polyadenylate-binding protein 1	28	2
Q35136	Neural cell adhesion molecule 2 precursor	28	2
Q7TNR6	Immunoglobulin superfamily member 21 precursor	28	2
P62334	26S protease regulatory subunit S10B	27	2
P55066	Neurocan core protein precursor	26	2
P28738	Kinesin heavy chain isoform 5C	26	2

Q61879	Myosin-10	26	2
Q80WM4	Hyaluronan and proteoglycan link protein 4 precursor	25	2
Q64559	Cytosolic acyl coenzyme A thioester hydrolase	25	2
P28663	Beta-soluble NSF attachment protein	25	2
P06907	Myelin P0 protein precursor	24	2
P46471	26S protease regulatory subunit 7	24	2
P21533	60S ribosomal protein L6	24	2
P41565	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial precursor	24	2
Q6AY30	Probable saccharopine dehydrogenase	23	2
Q99104	Myosin-Va	23	2
P61979	Heterogeneous nuclear ribonucleoprotein K	22	2
Q9D2G2	Dihydropyridyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial precursor	22	1
P28667	MARCKS-related protein	22	1
P55012	Solute carrier family 12 member 2	21	2
Q64433	10 kDa heat shock protein, mitochondrial	21	1
Q63041	Alpha-1-macroglobulin precursor	20	2
Q5FVI6	Vacuolar proton pump subunit C 1	20	2
Q05962	ADP/ATP translocase 1	19	2
P55161	Nck-associated protein 1	19	2
P63004	Platelet-activating factor acetylhydrolase IB subunit alpha	18	1
Q8K0T0	Reticulon-1	18	2
Q1WIM1	Cell adhesion molecule 4 precursor	18	1
P63276	40S ribosomal protein S17	18	1
Q66H42	Ly6/PLAUR domain-containing protein 1 precursor	18	1
Q9QZB0	Regulator of G-protein signaling 17	17	1
Q8CFN2	Cell division control protein 42 homolog precursor	17	1
P62315	Small nuclear ribonucleoprotein Sm D1	16	1
O08839	Myc box-dependent-interacting protein 1	16	1
Q62910	Synaptojanin-1	16	1
P08289	<b>Alkaline phosphatase, tissue-nonspecific isozyme precursor</b>	16	1
P61161	Actin-related protein 2	16	1
P70296	Phosphatidylethanolamine-binding protein 1	15	1

P62918	60S ribosomal protein L8	15	1
Q6ZQ18	Protein EFR3 homolog B	15	1
Q8C522	Endonuclease domain-containing 1 protein precursor	15	1
P62082	40S ribosomal protein S7	14	1
P62748	Hippocalcin-like protein 1	13	1
Q9DBC7	cAMP-dependent protein kinase type I-alpha regulatory subunit	12	1
Q3UHD9	Centaurin-gamma-1	12	1
Q6Q0N1	Cytosolic non-specific dipeptidase	12	1