

Table SI. List of proteins identified by liquid chromatography with tandem mass spectrometry identified proteins with score ≥ 35 in bound fractions.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
MICA1_HUMAN	[F-actin]-monooxygenase MICAL1	117875	6.00	41	1	1
1433S_HUMAN	14-3-3 protein sigma	27757	4.68	51	1	1
FYV1_HUMAN	1-phosphatidylinositol 3-phosphate 5-kinase	236986	6.24	38	1	1
RT22_HUMAN	28S ribosomal protein S22, mitochondrial	41254	7.70	38	1	1
CGT_HUMAN	2-hydroxyacylsphingosine 1-beta-galactosyltransferase	61398	9.54	67	2	1
RM50_HUMAN	39S ribosomal protein L50, mitochondrial	18313	7.73	38	1	1
NSUN4_HUMAN	5-methylcytosine rRNA methyltransferase NSUN4	43061	8.47	39	1	1
RL7A_HUMAN	60S ribosomal protein L7a	29977	10.61	37	1	1
ACTA_HUMAN	Actin, aortic smooth muscle	41982	5.24	40	1	1
ACTH_HUMAN	Actin, gamma-enteric smooth muscle	41850	5.31	42	1	1
PPBT_HUMAN	Alkaline phosphatase, tissue-nonspecific isozyme	57269	6.19	36	1	1
A1AG1_HUMAN	Alpha-1-acid glycoprotein 1	23497	4.93	291	9	5
A1AG2_HUMAN	Alpha-1-acid glycoprotein 2	23588	5.03	173	7	4
A1AT_HUMAN	Alpha-1-antitrypsin	46707	5.37	947	29	17
FETUA_HUMAN	Alpha-2-HS-glycoprotein	39300	5.43	41	1	1
A2MG_HUMAN	Alpha-2-macroglobulin	163188	6.03	4359	136	51
AASS_HUMAN	Alpha-aminoadipic semialdehyde synthase, mitochondrial	102066	6.18	37	1	1
RAI14_HUMAN	Ankycorbin	109973	5.87	38	1	1
AKIB1_HUMAN	Ankyrin repeat and IBR domain-containing protein 1	121924	4.98	40	1	1
ASB2_HUMAN	Ankyrin repeat and SOCS box protein 2	65084	7.55	36	1	1
ASB8_HUMAN	Ankyrin repeat and SOCS box protein 8	31622	5.56	36	1	1
AN13C_HUMAN	Ankyrin repeat domain-containing protein 13C	60780	6.46	35	1	1
ANT3_HUMAN	Antithrombin-III	52569	6.32	46	2	1
APOA1_HUMAN	Apolipoprotein A-I	30759	5.56	1650	53	18
APOA2_HUMAN	Apolipoprotein A-II	11168	6.27	301	12	4
APOB_HUMAN	Apolipoprotein B-100	515283	6.58	51	1	1
APOC1_HUMAN	Apolipoprotein C-I	9326	8.01	124	5	4
APOC2_HUMAN	Apolipoprotein C-II	11277	4.64	85	2	2
APOC3_HUMAN	Apolipoprotein C-III	10846	5.23	104	1	1
APOD_HUMAN	Apolipoprotein D	21262	5.06	93	3	2
APOE_HUMAN	Apolipoprotein E	36132	5.65	228	9	7
APOM_HUMAN	Apolipoprotein M	21239	5.66	37	1	1
APOA_HUMAN	Apolipoprotein(a)	500995	5.58	58	1	1
ASAP2_HUMAN	Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2	111581	6.24	53	4	1
ABCA3_HUMAN	ATP-binding cassette sub-family A member 3	191362	7.55	41	1	1
ABCCB_HUMAN	ATP-binding cassette sub-family C member 11	154202	8.39	47	2	1
DHX9_HUMAN	ATP-dependent RNA helicase A	140869	6.41	36	1	1
ARID2_HUMAN	AT-rich interactive domain-containing protein 2	197391	7.08	36	1	1
E41L3_HUMAN	Band 4.1-like protein 3	120603	5.09	40	3	1
CRBG1_HUMAN	Beta/gamma crystallin domain-containing protein 1	188558	5.61	52	2	1
HEXB_HUMAN	Beta-hexosaminidase subunit beta	63111	6.29	40	1	1
PUR9_HUMAN	Bifunctional purine biosynthesis protein PURH	64616	6.27	46	1	1
BARD1_HUMAN	BRCA1-associated RING domain protein 1	86593	8.99	45	2	1
BRCA2_HUMAN	Breast cancer type 2 susceptibility protein	383963	6.29	48	2	1
BCAS1_HUMAN	Breast carcinoma-amplified sequence 1	61671	4.99	46	2	1
BRD1_HUMAN	Bromodomain-containing protein 1	119520	8.91	35	1	1
KCD18_HUMAN	BTB/POZ domain-containing protein KCTD18	46710	9.23	39	1	1
BUD13_HUMAN	BUD13 homolog	70478	9.86	37	1	1
C4BPA_HUMAN	C4b-binding protein alpha chain	66989	7.15	146	5	4

Table SI. Continued.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
CAPS1_HUMAN	Calcium-dependent secretion activator 1	152690	5.50	41	1	1
CAMP2_HUMAN	Calmodulin-regulated spectrin-associated protein 2	168089	6.36	36	1	1
CAN8_HUMAN	Calpain-8	79144	5.10	43	1	1
CASS4_HUMAN	Cas scaffolding protein family member 4	87090	6.66	35	1	1
CASPE_HUMAN	Caspase-14	27662	5.44	79	1	1
CD5L_HUMAN	CD5 antigen-like	38063	5.28	51	1	1
CEIP2_HUMAN	Cell surface hyaluronidase	154276	8.41	43	2	1
CENPE_HUMAN	Centromere-associated protein E	316219	5.51	40	2	1
CP250_HUMAN	Centrosome-associated protein CEP250	280967	5.00	38	1	1
CERU_HUMAN	Ceruloplasmin	122128	5.44	62	1	1
CFA54_HUMAN	Cilia- and flagella-associated protein 54	351744	8.41	39	1	1
CFA61_HUMAN	Cilia- and flagella-associated protein 61	141258	5.76	46	2	1
CATIP_HUMAN	Ciliogenesis-associated TTC17-interacting protein	43872	5.28	38	1	1
CLH2_HUMAN	Clathrin heavy chain 2	186910	5.57	39	1	1
CC183_HUMAN	Coiled-coil domain-containing protein 183	62689	8.93	35	1	1
CCD78_HUMAN	Coiled-coil domain-containing protein 78	48521	8.27	37	1	1
CO5A2_HUMAN	Collagen alpha-2(V) chain	144821	6.07	35	1	1
C1S_HUMAN	Complement C1s subcomponent	76635	4.85	38	1	1
CO3_HUMAN	Complement C3	187030	6.02	5949	189	64
CO4A_HUMAN	Complement C4-A	192664	6.66	161	4	3
CO4B_HUMAN	Complement C4-B	192631	6.89	190	6	5
CO5_HUMAN	Complement C5	188305	6.11	37	1	1
CFAH_HUMAN	Complement factor H	139005	6.21	43	1	1
FHR3_HUMAN	Complement factor H-related protein 3	37299	7.72	43	1	1
CYTS_HUMAN	Cystatin-S	16204	4.95	66	1	1
NCK2_HUMAN	Cytoplasmic protein NCK2	42915	6.49	47	4	1
CBPC3_HUMAN	Cytosolic carboxypeptidase 3	115938	8.98	38	1	1
DACT1_HUMAN	Dapper homolog 1	90174	8.93	36	1	1
BDH_HUMAN	D-beta-hydroxybutyrate dehydrogenase, mitochondrial	38132	9.10	39	1	1
DCD_HUMAN	Dermeidin	11277	6.09	105	2	2
DESP_HUMAN	Desmoplakin	331569	6.44	191	10	10
VCIP1_HUMAN	Deubiquitinating protein VCIP135	134321	6.77	37	1	1
DIP2A_HUMAN	Disco-interacting protein 2 homolog A	170261	8.35	42	1	1
DAAM2_HUMAN	Disheveled-associated activator of morphogenesis 2	123420	6.36	40	1	1
DISC1_HUMAN	Disrupted in schizophrenia 1 protein	93552	5.96	36	1	1
CHFR_HUMAN	E3 ubiquitin-protein ligase CHFR	73386	5.71	36	1	1
HECD3_HUMAN	E3 ubiquitin-protein ligase HECTD3	97051	5.46	43	2	1
HERC2_HUMAN	E3 ubiquitin-protein ligase HERC2	526895	5.88	36	1	1
RN149_HUMAN	E3 ubiquitin-protein ligase RNF149	43137	6.08	38	1	1
ELP3_HUMAN	Elongator complex protein 3	62219	9.04	37	1	1
EMIL2_HUMAN	EMILIN-2	115687	6.04	36	1	1
IF4G3_HUMAN	Eukaryotic translation initiation factor 4 gamma 3	176542	5.27	48	1	1
XPO2_HUMAN	Exportin-2	110346	5.51	40	1	1
FAKD4_HUMAN	FAST kinase domain-containing protein 4	70693	6.98	35	1	1
FCHO2_HUMAN	F-BAR domain only protein 2	88924	6.42	38	2	1
FR1L6_HUMAN	Fer-1-like protein 6	209308	5.98	38	1	1
FRPD1_HUMAN	FERM and PDZ domain-containing protein 1	173437	5.14	40	1	1
FINC_HUMAN	Fibronectin	262460	5.46	53	1	1
FILA_HUMAN	Filaggrin	434922	9.24	59	1	1
FILA2_HUMAN	Filaggrin-2	247928	8.45	49	1	1

Table SI. Continued.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
FLNC_HUMAN	Filamin-C	291022	5.65	38	1	1
FOXP1_HUMAN	Forkhead box protein P1	75317	6.19	35	1	1
G3ST3_HUMAN	Galactose-3-O-sulfotransferase 3	48925	9.96	35	1	1
LG3BP_HUMAN	Galectin-3-binding protein	65289	5.12	70	2	2
LEG7_HUMAN	Galectin-7	15066	7.02	96	1	1
GHDC_HUMAN	GH3 domain-containing protein	57523	8.05	41	2	1
GFAP_HUMAN	Glial fibrillary acidic protein	49850	5.42	70	1	1
G3P_HUMAN	Glyceraldehyde-3-phosphate dehydrogenase	36030	8.57	54	1	1
GGYF1_HUMAN	GRB10-interacting GYF protein 1	114531	5.30	40	2	1
HPT_HUMAN	Haptoglobin	45177	6.13	781	29	13
HPTR_HUMAN	Haptoglobin-related protein	39005	6.63	589	25	8
HEMGN_HUMAN	Hemogen	55307	4.82	38	1	1
HBA_HUMAN	Hemoglobin subunit alpha	15248	8.72	220	6	4
HBB_HUMAN	Hemoglobin subunit beta	15988	6.74	613	17	9
HBD_HUMAN	Hemoglobin subunit delta	16045	7.84	263	8	5
HRG_HUMAN	Histidine-rich glycoprotein	59541	7.09	55	1	1
H12_HUMAN	Histone H1.2	21352	10.94	100	2	2
H13_HUMAN	Histone H1.3	22336	11.02	39	1	1
H1T_HUMAN	Histone H1t	22006	11.71	39	1	1
H2A1A_HUMAN	Histone H2A type 1-A	14225	10.86	50	1	1
H2B1A_HUMAN	Histone H2B type 1-A	14159	10.31	40	1	1
H2B1B_HUMAN	Histone H2B type 1-B	13942	10.31	39	1	1
H4_HUMAN	Histone H4	11360	11.36	49	1	1
KMT2C_HUMAN	Histone-lysine N-methyltransferase 2C	541028	6.07	35	1	1
KMT2D_HUMAN	Histone-lysine N-methyltransferase 2D	593389	5.40	42	1	1
1A01_HUMAN	HLA class I histocompatibility antigen, A-1 alpha chain	40820	6.09	35	1	1
1A23_HUMAN	HLA class I histocompatibility antigen, A-23 alpha chain	40707	5.91	35	1	1
1A26_HUMAN	HLA class I histocompatibility antigen, A-26 alpha chain	41036	6.08	35	1	1
1A80_HUMAN	HLA class I histocompatibility antigen, A-80 alpha chain	40766	5.90	35	1	1
HMGX3_HUMAN	HMG domain-containing protein 3	168228	8.39	38	1	1
CDX1_HUMAN	Homeobox protein CDX-1	28120	9.58	49	1	1
HIPK4_HUMAN	Homeodomain-interacting protein kinase 4	69381	6.18	35	1	1
HORN_HUMAN	Hornerin	282228	10.05	64	1	1
CDC37_HUMAN	Hsp90 co-chaperone Cdc37	44468	5.17	37	1	1
LOXE3_HUMAN	Hydroperoxide isomerase AL	80543	6.53	39	1	1
IGHA1_HUMAN	Ig alpha-1 chain C region	37631	6.08	771	24	10
IGHA2_HUMAN	Ig alpha-2 chain C region	36503	5.86	350	9	6
IGHD_HUMAN	Ig delta chain C region	42227	8.38	103	2	1
IGHG1_HUMAN	Ig gamma-1 chain C region	36083	8.46	1208	39	10
IGHG2_HUMAN	Ig gamma-2 chain C region	35878	7.66	644	22	7
IGHG3_HUMAN	Ig gamma-3 chain C region	41260	8.23	736	26	10
IGHG4_HUMAN	Ig gamma-4 chain C region	35918	7.18	638	22	7
IGKC_HUMAN	Ig kappa chain C region	11602	6.11	2146	90	5
IGHM_HUMAN	Immunoglobulin heavy constant mu	49276	6.35	1317	50	16
HV102_HUMAN	Immunoglobulin heavy variable 1-2	13076	9.23	62	1	1
HV103_HUMAN	Immunoglobulin heavy variable 1-3	12999	9.59	66	1	1
HV146_HUMAN	Immunoglobulin heavy variable 1-46	12924	9.10	38	1	1
HV311_HUMAN	Immunoglobulin heavy variable 3-11	12900	8.82	63	1	1
HV313_HUMAN	Immunoglobulin heavy variable 3-13	12498	6.54	187	5	1
HV315_HUMAN	Immunoglobulin heavy variable 3-15	12917	8.84	67	2	2

Table SI. Continued.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
HV321_HUMAN	Immunoglobulin heavy variable 3-21	12831	8.49	157	3	2
HV323_HUMAN	Immunoglobulin heavy variable 3-23	12574	8.49	187	4	2
HV330_HUMAN	Immunoglobulin heavy variable 3-30	12938	9.10	252	5	2
HV333_HUMAN	Immunoglobulin heavy variable 3-33	13066	9.12	214	4	2
HV348_HUMAN	Immunoglobulin heavy variable 3-48	12804	5.31	107	3	1
HV349_HUMAN	Immunoglobulin heavy variable 3-49	13048	8.84	69	1	1
HV364_HUMAN	Immunoglobulin heavy variable 3-64	12882	7.69	48	1	1
HV307_HUMAN	Immunoglobulin heavy variable 3-7	12934	6.21	260	6	3
HV309_HUMAN	Immunoglobulin heavy variable 3-9	12936	6.55	186	5	1
HV434_HUMAN	Immunoglobulin heavy variable 4-34	13806	9.39	114	4	2
HV439_HUMAN	Immunoglobulin heavy variable 4-39	13908	9.35	114	4	2
IGJ_HUMAN	Immunoglobulin J chain	18087	5.09	105	2	1
KV117_HUMAN	Immunoglobulin kappa variable 1-17	12770	8.93	56	2	1
KV105_HUMAN	Immunoglobulin kappa variable 1-5	12773	8.49	101	2	1
KVD33_HUMAN	Immunoglobulin kappa variable 1D-33	12840	4.53	39	1	1
KV230_HUMAN	Immunoglobulin kappa variable 2-30	13177	8.71	302	6	2
KVD28_HUMAN	Immunoglobulin kappa variable 2D-28	12948	5.61	252	4	2
KVD30_HUMAN	Immunoglobulin kappa variable 2D-30	13207	7.79	302	6	2
KVD40_HUMAN	Immunoglobulin kappa variable 2D-40	13302	4.43	335	7	3
KV311_HUMAN	Immunoglobulin kappa variable 3-11	12567	4.85	118	3	2
KV315_HUMAN	Immunoglobulin kappa variable 3-15	12488	5.14	166	5	2
KV320_HUMAN	Immunoglobulin kappa variable 3-20	12549	4.85	354	7	3
KVD20_HUMAN	Immunoglobulin kappa variable 3D-20	12507	4.46	266	6	2
KV401_HUMAN	Immunoglobulin kappa variable 4-1	13372	5.09	167	7	3
IGLC1_HUMAN	Immunoglobulin lambda constant 1	11341	7.89	231	6	2
IGLC2_HUMAN	Immunoglobulin lambda constant 2	11287	6.91	767	23	4
IGLC3_HUMAN	Immunoglobulin lambda constant 3	11231	6.91	499	13	3
IGLC6_HUMAN	Immunoglobulin lambda constant 6	11270	6.91	664	20	3
IGLC7_HUMAN	Immunoglobulin lambda constant 7	11296	8.50	506	14	2
LV147_HUMAN	Immunoglobulin lambda variable 1-47	12276	5.55	138	2	1
LV151_HUMAN	Immunoglobulin lambda variable 1-51	12241	6.50	48	1	1
LV211_HUMAN	Immunoglobulin lambda variable 2-11	12636	6.69	44	1	1
LV208_HUMAN	Immunoglobulin lambda variable 2-8	12374	5.59	39	1	1
LV319_HUMAN	Immunoglobulin lambda variable 3-19	12035	4.76	96	2	1
LV321_HUMAN	Immunoglobulin lambda variable 3-21	12438	5.03	340	7	2
LV325_HUMAN	Immunoglobulin lambda variable 3-25	12004	4.37	115	3	2
LV743_HUMAN	Immunoglobulin lambda variable 7-43	12443	6.52	56	1	1
IGLL1_HUMAN	Immunoglobulin lambda-like polypeptide 1	22949	10.10	64	2	1
IGLL5_HUMAN	Immunoglobulin lambda-like polypeptide 5	23049	9.08	456	18	4
PLCL2_HUMAN	Inactive phospholipase C-like protein 2	125785	6.47	44	3	1
IN80D_HUMAN	INO80 complex subunit D	98174	8.48	37	1	1
IRS4_HUMAN	Insulin receptor substrate 4	133685	8.72	37	1	1
IF172_HUMAN	Intraflagellar transport protein 172 homolog	197451	5.78	37	1	1
NUBPL_HUMAN	Iron-sulfur protein NUBPL	34061	9.17	35	1	1
PLAK_HUMAN	Junction plakoglobin	81693	5.75	143	4	4
KATL1_HUMAN	Katanin p60 ATPase-containing subunit A-like 1	55357	6.35	35	1	1
KSR2_HUMAN	Kinase suppressor of Ras 2	107564	8.95	37	1	1
KI18A_HUMAN	Kinesin-like protein KIF18A	102216	9.09	40	1	1
KAT3_HUMAN	Kynurenine-oxoglutarate transaminase 3	51368	8.40	37	1	1
TRFL_HUMAN	Lactotransferrin	78132	8.50	42	1	1
LAMB1_HUMAN	Laminin subunit beta-1	197909	4.83	54	2	1
LIMS1_HUMAN	LIM and senescent cell antigen-like-containing domain protein 1	37226	8.43	35	1	1
LHX2_HUMAN	LIM/homeobox protein Lhx2	44345	8.81	39	1	1

Table SI. Continued.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
LSAMP_HUMAN	Limbic system-associated membrane protein	37370	6.55	39	1	1
LOXH1_HUMAN	Lipoxygenase homology domain-containing protein 1	221807	5.38	48	2	1
MASP1_HUMAN	Mannan-binding lectin serine protease 1	79195	5.29	38	1	1
MEIOC_HUMAN	Meiosis-specific coiled-coil domain-containing protein MEIOC	107491	6.68	44	1	1
MTAP2_HUMAN	Microtubule-associated protein 2	199404	4.82	38	1	1
MDN1_HUMAN	Midasin	632420	5.46	38	1	1
S2542_HUMAN	Mitochondrial coenzyme A transporter SLC25A42	35387	10.08	41	1	1
MCE1_HUMAN	mRNA-capping enzyme	68513	8.43	51	2	1
MUC16_HUMAN	Mucin-16	1518242	5.13	38	1	1
MUC5A_HUMAN	Mucin-5AC	585199	6.71	35	1	1
MUC5B_HUMAN	Mucin-5B	595960	6.20	72	1	1
MRP5_HUMAN	Multidrug resistance-associated protein 5	160558	8.87	49	3	2
MRP9_HUMAN	Multidrug resistance-associated protein 9	152200	8.64	47	2	1
ACM5_HUMAN	Muscarinic acetylcholine receptor M5	60074	9.39	41	1	1
MYL1_HUMAN	Myosin light chain 1/3, skeletal muscle isoform	21145	4.97	35	1	1
MYL6_HUMAN	Myosin light polypeptide 6	16930	4.56	35	1	1
MYH10_HUMAN	Myosin-10	228858	5.43	43	2	1
MYH11_HUMAN	Myosin-11	227199	5.42	44	1	1
MYH6_HUMAN	Myosin-6	223596	5.58	37	1	1
N4BP3_HUMAN	NEDD4-binding protein 3	60433	8.33	39	1	1
NELFB_HUMAN	Negative elongation factor B	65655	5.77	38	1	1
NRX2A_HUMAN	Neurexin-2	184865	5.61	35	1	1
NFH_HUMAN	Neurofilament heavy polypeptide	112411	5.99	111	3	2
NAV2_HUMAN	Neuron navigator 2	268003	9.13	38	1	1
NSF1C_HUMAN	NSFL1 cofactor p47	40548	4.99	36	1	1
TIA1_HUMAN	Nucleolysin TIA-1 isoform p40	42936	7.62	43	1	1
O6C74_HUMAN	Olfactory receptor 6C74	35230	8.95	39	1	1
OXR1_HUMAN	Oxidation resistance protein 1	97970	5.32	37	1	1
OSBL3_HUMAN	Oxysterol-binding protein-related protein 3	101224	6.42	39	1	1
PX11B_HUMAN	Peroxisomal membrane protein 11B	28431	9.91	37	1	1
PEX1_HUMAN	Peroxisome biogenesis factor 1	142778	5.91	39	2	1
PSD1_HUMAN	PH and SEC7 domain-containing protein 1	109475	6.43	36	1	1
PHAR1_HUMAN	Phosphatase and actin regulator 1	66267	6.51	35	1	1
PGM1_HUMAN	Phosphoglucomutase-1	61411	6.30	38	2	1
PGK2_HUMAN	Phosphoglycerate kinase 2	44767	8.74	35	2	1
PININ_HUMAN	Pinin	81628	6.71	36	1	1
KLKB1_HUMAN	Plasma kallikrein	71323	8.60	67	1	1
IC1_HUMAN	Plasma protease C1 inhibitor	55119	6.09	456	16	9
PLMN_HUMAN	Plasminogen	90510	7.04	82	3	3
PLGB_HUMAN	Plasminogen-like protein B	10964	6.11	42	1	1
CXCL7_HUMAN	Platelet basic protein	13885	9.04	47	2	1
PKHG6_HUMAN	Pleckstrin homology domain-containing family G member 6	88960	6.63	37	1	1
GALT3_HUMAN	Polypeptide N-acetylgalactosaminyltransferase 3	72564	8.20	36	1	1
POPD2_HUMAN	Popeye domain-containing protein 2	40448	5.23	48	1	1
POTEE_HUMAN	POTE ankyrin domain family member E	121286	5.83	42	1	1
POTEF_HUMAN	POTE ankyrin domain family member F	121367	5.82	42	1	1
PZP_HUMAN	Pregnancy zone protein	163760	5.97	861	28	14
DDX17_HUMAN	Probable ATP-dependent RNA helicase DDX17	80272	8.53	35	1	1
ZC12C_HUMAN	Probable ribonuclease ZC3H12C	99340	6.48	38	1	1
PRGR_HUMAN	Progesterone receptor	98918	6.09	38	1	1

Table SI. Continued.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
PRR30_HUMAN	Proline-rich protein 30	44662	10.39	38	1	1
ECM29_HUMAN	Proteasome-associated protein ECM29 homolog	204160	6.74	35	1	1
AMBP_HUMAN	Protein AMBP	38974	5.95	66	1	1
DEK_HUMAN	Protein DEK	42648	8.69	35	1	1
F1712_HUMAN	Protein FAM171A2	87435	8.14	35	1	1
OSCP1_HUMAN	Protein OSCP1	44558	5.64	47	2	1
S10A6_HUMAN	Protein S100-A6	10173	5.32	104	7	2
S10A7_HUMAN	Protein S100-A7	11464	6.27	43	1	1
S10A8_HUMAN	Protein S100-A8	10828	6.50	109	2	2
TGM7_HUMAN	Protein-glutamine gamma-glutamyltransferase Z	79941	6.54	47	3	1
THRB_HUMAN	Prothrombin	69992	5.63	56	2	2
PCDH9_HUMAN	Protocadherin-9	136064	5.26	35	1	1
HLAH_HUMAN	Putative HLA class I histocompatibility antigen, alpha chain H	40866	5.91	35	1	1
ASXL1_HUMAN	Putative Polycomb group protein ASXL1	165345	5.85	39	1	1
ZN815_HUMAN	Putative protein ZNF815	15437	6.04	35	1	1
AUXI_HUMAN	Putative tyrosine-protein phosphatase auxilin	99933	6.82	39	1	1
CU129_HUMAN	Putative uncharacterized protein encoded by LINC00479	15208	8.28	35	1	1
REEP5_HUMAN	Receptor expression-enhancing protein 5	21479	8.25	46	2	1
RGS4_HUMAN	Regulator of G-protein signaling 4	23241	8.69	41	2	1
RENT2_HUMAN	Regulator of nonsense transcripts 2	147717	5.50	36	1	1
RIPR3_HUMAN	RIPOR family member 3	105224	7.26	41	1	1
RBM45_HUMAN	RNA-binding protein 45	53502	6.74	42	1	1
DVL2_HUMAN	Segment polarity protein dishevelled homolog DVL-2	78948	5.67	38	1	1
NEK10_HUMAN	Serine/threonine-protein kinase Nek10	133176	6.35	35	1	1
NEK5_HUMAN	Serine/threonine-protein kinase Nek5	81393	9.05	39	1	1
TRFE_HUMAN	Serotransferrin	77014	6.81	4418	126	34
ALBU_HUMAN	Serum albumin	69321	5.92	7815	287	44
SAA1_HUMAN	Serum amyloid A-1 protein	13524	6.28	38	1	1
SAA2_HUMAN	Serum amyloid A-2 protein	13519	9.20	78	2	2
SAA4_HUMAN	Serum amyloid A-4 protein	14737	9.17	201	5	2
PON1_HUMAN	Serum paraoxonase/arylesterase 1	39706	5.08	51	1	1
SH3K1_HUMAN	SH3 domain-containing kinase-binding protein 1	73082	6.24	43	1	1
SLIT3_HUMAN	Slit homolog 3 protein	167604	7.99	35	2	1
SPR2D_HUMAN	Small proline-rich protein 2D	7900	8.77	43	1	1
SCNBA_HUMAN	Sodium channel protein type 11 subunit alpha	204778	8.32	40	2	1
S22A6_HUMAN	Solute carrier family 22 member 6	61776	9.05	35	1	1
SORT_HUMAN	Sortilin	92009	5.46	71	3	1
SPG17_HUMAN	Sperm-associated antigen 17	251742	5.88	41	1	1
SRC8_HUMAN	Src substrate cortactin	61586	5.24	35	1	1
SLAP1_HUMAN	Src-like-adaptor	31137	7.61	35	1	1
STAR9_HUMAN	StAR-related lipid transfer protein 9	516023	5.91	38	1	1
SMC2_HUMAN	Structural maintenance of chromosomes protein 2	135572	8.54	39	1	1
SUN3_HUMAN	SUN domain-containing protein 3	40503	7.68	40	1	1
TCPH_HUMAN	T-complex protein 1 subunit eta	59367	7.55	39	1	1
THOC2_HUMAN	THO complex subunit 2	182659	8.67	42	1	1
TITIN_HUMAN	Titin	3813652	6.02	36	1	1
TGRM2_HUMAN	TOG array regulator of axonemal microtubules protein 2	111084	9.51	41	1	1
TNIK_HUMAN	TRAF2 and NCK-interacting protein kinase	154848	6.70	38	1	1
MIPT3_HUMAN	TRAF3-interacting protein 1	78584	7.95	36	1	1
TRAK2_HUMAN	Trafficking kinesin-binding protein 2	101356	5.14	40	1	1

Table SI. Continued.

Entry names	Protein names	MW, Da	pI	Protein score	Peptide matches	Unique sequences
TAF7_HUMAN	Transcription initiation factor TFIID subunit 7	40234	5.07	50	1	1
TTF1_HUMAN	Transcription termination factor 1	102987	9.41	36	1	1
MYB_HUMAN	Transcriptional activator Myb	72341	6.35	44	1	1
TMPPE_HUMAN	Transmembrane protein with metallophosphoesterase domain	49421	6.43	35	1	1
TTHY_HUMAN	Transthyretin	15877	5.49	231	6	4
TNR6B_HUMAN	Trinucleotide repeat-containing gene 6B protein	193883	6.31	36	1	1
SEN2_HUMAN	tRNA-splicing endonuclease subunit Sen2	53247	7.95	42	1	1
TYMOS_HUMAN	TYMS opposite strand protein	13402	12.04	36	1	1
FES_HUMAN	Tyrosine-protein kinase Fes/Fps	93438	6.27	45	2	1
UBP16_HUMAN	Ubiquitin carboxyl-terminal hydrolase 16	93570	6.50	37	1	1
UBP47_HUMAN	Ubiquitin carboxyl-terminal hydrolase 47	157212	4.97	38	1	1
OTUL_HUMAN	Ubiquitin thioesterase otulin	40263	5.35	38	1	1
MYO5A_HUMAN	Unconventional myosin-Va	215269	8.70	46	1	1
K1324_HUMAN	UPF0577 protein KIAA1324	111309	6.13	44	1	1
CT027_HUMAN	UPF0687 protein C2orf27	19279	6.34	35	1	1
VP13C_HUMAN	Vacuolar protein sorting-associated protein 13C	422124	6.38	40	1	1
VANG2_HUMAN	Vang-like protein 2	59714	9.27	37	1	1
PROS_HUMAN	Vitamin K-dependent protein S	75074	5.48	102	4	4
CAC1H_HUMAN	Voltage-dependent T-type calcium channel subunit alpha-1H	258997	7.13	44	1	1
VWA8_HUMAN	von Willebrand factor A domain-containing protein 8	214689	7.01	35	1	1
WDR17_HUMAN	WD repeat-containing protein 17	147608	6.01	59	5	1
WDR7_HUMAN	WD repeat-containing protein 7	163705	6.47	36	1	1
WDR76_HUMAN	WD repeat-containing protein 76	69769	9.35	38	1	1
WRN_HUMAN	Werner syndrome ATP-dependent helicase	162357	5.96	36	1	1
XDH_HUMAN	Xanthine dehydrogenase/oxidase	146330	7.86	49	1	1
ZBT7A_HUMAN	Zinc finger and BTB domain-containing protein 7A	61439	4.98	40	1	1
ZC3HD_HUMAN	Zinc finger CCCH domain-containing protein 13	196635	9.45	36	1	1
ZN142_HUMAN	Zinc finger protein 142	187758	8.24	41	1	1
ZNF34_HUMAN	Zinc finger protein 34	63998	9.05	37	1	1
ZN469_HUMAN	Zinc finger protein 469	409949	7.88	40	1	1
ZNF48_HUMAN	Zinc finger protein 48	67820	9.51	41	1	1
ZN581_HUMAN	Zinc finger protein 581	21996	9.16	37	1	1
ZN658_HUMAN	Zinc finger protein 658	122274	8.63	39	1	1
Z658B_HUMAN	Zinc finger protein 658B	94331	8.90	39	1	1
DPF1_HUMAN	Zinc finger protein neuro-d4	42475	6.47	35	1	1
OZF_HUMAN	Zinc finger protein OZF	33308	9.15	37	1	1
ZKSC2_HUMAN	Zinc finger protein with KRAB and SCAN domains 2	110870	8.68	41	1	1
FOG2_HUMAN	Zinc finger protein ZFPM2	128159	6.03	36	1	1
S39A6_HUMAN	Zinc transporter ZIP6	84993	6.45	35	1	1

MW, molecular weight; pI, isoelectric point.

Table SII. List of proteins identified by liquid chromatography with tandem mass spectrometry with score ≥ 35 in flow-through fractions.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
CJ090_HUMAN	(E2-independent) E3 ubiquitin-conjugating enzyme FATS	77862	9.21	39	1	1
RM38_HUMAN	39S ribosomal protein L38, mitochondrial	44568	7.19	37	1	1
OXSM_HUMAN	3-Oxoacyl-[acyl-carrier-protein] synthase, mitochondrial	48812	7.59	41	2	1
RLA0_HUMAN	60S acidic ribosomal protein P0	34252	5.70	94	2	2
AACS_HUMAN	Acetoacetyl-CoA synthetase	75096	5.86	35	1	1
HRK_HUMAN	Activator of apoptosis harakiri	9877	11.75	37	1	1
AGRL1_HUMAN	Adhesion G protein-coupled receptor L1	162614	6.17	39	1	1
ADIPO_HUMAN	Adiponectin	26397	5.42	151	4	3
AFAD_HUMAN	Afadin	206804	6.06	42	1	1
AFAM_HUMAN	Afamin	69024	5.64	1035	36	18
AKP13_HUMAN	A-kinase anchor protein 13	307359	5.12	39	1	1
AAAS_HUMAN	Aladin	59574	7.26	49	1	1
AACT_HUMAN	Alpha-1-antichymotrypsin	47621	5.33	2744	85	15
A1BG_HUMAN	Alpha-1B-glycoprotein	54220	5.56	1345	41	13
A2AP_HUMAN	Alpha-2-antiplasmin	54531	5.87	335	10	7
FETUA_HUMAN	Alpha-2-HS-glycoprotein	39300	5.43	672	22	7
A2MG_HUMAN	Alpha-2-macroglobulin	163188	6.03	101	3	3
AASS_HUMAN	Alpha-aminoadipic semialdehyde synthase, mitochondrial	102066	6.18	37	1	1
AMY2B_HUMAN	Alpha-amylase 2B	57673	6.64	57	2	2
A4_HUMAN	Amyloid-beta precursor protein	86888	4.73	36	1	1
ANGT_HUMAN	Angiotensinogen	53121	5.87	1286	34	12
ASB2_HUMAN	Ankyrin repeat and SOCS box protein 2	65084	7.55	47	1	1
ANXA2_HUMAN	Annexin A2	38580	7.57	52	1	1
ANT3_HUMAN	Antithrombin-III	52569	6.32	1731	52	18
AP4S1_HUMAN	AP-4 complex subunit sigma-1	16994	5.08	45	3	1
APOA2_HUMAN	Apolipoprotein A-II	11168	6.27	175	6	2
APOA4_HUMAN	Apolipoprotein A-IV	45371	5.28	1191	38	21
APOB_HUMAN	Apolipoprotein B-100	515283	6.58	14958	450	196
APOC1_HUMAN	Apolipoprotein C-I	9326	8.01	120	5	3
APOC2_HUMAN	Apolipoprotein C-II	11277	4.64	187	4	4
APOC3_HUMAN	Apolipoprotein C-III	10846	5.23	105	2	2
APOC4_HUMAN	Apolipoprotein C-IV	14543	9.19	122	5	3
APOD_HUMAN	Apolipoprotein D	21262	5.06	53	1	1
APOE_HUMAN	Apolipoprotein E	36132	5.65	1620	49	18
APOF_HUMAN	Apolipoprotein F	35377	5.42	73	1	1
APOM_HUMAN	Apolipoprotein M	21239	5.66	50	1	1
APOA_HUMAN	Apolipoprotein(a)	500995	5.58	72	2	1
AIFM2_HUMAN	Apoptosis-inducing factor 2	40501	9.16	135	4	1
APAF_HUMAN	Apoptotic protease-activating factor 1	141749	5.95	44	1	1
ARFP1_HUMAN	Arfaptin-1	41713	6.24	53	2	1
ASAP2_HUMAN	Arf-GAP with SH3 domain, ANK repeat and PH domain containing protein 2	111581	6.24	41	2	1
ARG11_HUMAN	Arginase-1	34713	6.72	59	1	1
PNISR_HUMAN	Arginine/serine-rich protein PNISR	92521	10.02	37	1	1
ATPA_HUMAN	ATP synthase subunit alpha, mitochondrial	59751	9.16	45	2	1
ATAD5_HUMAN	ATPase family AAA domain-containing protein 5	207441	9.27	45	2	1
DX39A_HUMAN	ATP-dependent RNA helicase DDX39A	49130	5.46	35	1	1
ATRN_HUMAN	Attractin	158432	7.24	461	18	13
BBS2_HUMAN	Bardet-Biedl syndrome 2 protein	79871	5.74	35	1	1
PGBM_HUMAN	Basement membrane-specific heparan sulfate proteoglycan core protein	468532	6.06	38	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
APOH_HUMAN	Beta-2-glycoprotein 1	38273	8.34	856	26	10
B2MG_HUMAN	Beta-2-microglobulin	13706	6.06	176	5	3
CNDP1_HUMAN	Beta-Ala-His dipeptidase	56670	5.14	176	6	5
BGLR_HUMAN	Beta-glucuronidase	74732	6.54	36	1	1
BTD_HUMAN	Biotinidase	61093	5.81	198	6	5
CD20_HUMAN	B-lymphocyte antigen CD20	33077	5.04	35	1	1
BCAR1_HUMAN	Breast cancer anti-estrogen resistance protein 1	93372	5.41	35	1	1
BIG1_HUMAN	Brefeldin A-inhibited guanine nucleotide-exchange protein 1	208634	5.58	43	1	1
BRD7_HUMAN	Bromodomain-containing protein 7	74139	6.00	35	1	1
KCD18_HUMAN	BTB/POZ domain-containing protein KCTD18	46710	9.23	41	2	1
CAD11_HUMAN	Cadherin-11	87965	4.75	36	1	1
CADH5_HUMAN	Cadherin-5	87474	5.22	58	1	1
CAHM6_HUMAN	Calcium homeostasis modulator protein 6	34458	8.87	40	2	1
KKCC2_HUMAN	Calcium/calmodulin-dependent protein kinase kinase 2	64746	6.25	35	1	1
AT2C1_HUMAN	Calcium-transporting ATPase type 2C member 1	100577	6.34	36	1	1
CAN2_HUMAN	Calpain-2 catalytic subunit	79945	4.87	51	2	1
CAN8_HUMAN	Calpain-8	79144	5.10	35	1	1
CLIP1_HUMAN	CAP-Gly domain-containing linker protein 1	162147	5.29	49	2	1
CLIP3_HUMAN	CAP-Gly domain-containing linker protein 3	59560	7.93	35	1	1
CAH1_HUMAN	Carbonic anhydrase 1	28852	6.59	279	9	8
CAH2_HUMAN	Carbonic anhydrase 2	29228	6.87	77	1	1
EST5A_HUMAN	Carboxylesterase 5A	63926	5.98	37	1	1
CBPB2_HUMAN	Carboxypeptidase B2	48393	7.61	106	6	5
CBPN_HUMAN	Carboxypeptidase N catalytic chain	52253	6.86	131	3	3
CPN2_HUMAN	Carboxypeptidase N subunit 2	60518	5.63	296	9	5
CRAC1_HUMAN	Cartilage acidic protein 1	71376	4.95	45	1	1
COMP_HUMAN	Cartilage oligomeric matrix protein	82808	4.36	35	1	1
C8AP2_HUMAN	CASP8-associated protein 2	222520	6.14	42	2	1
CAR10_HUMAN	Caspase recruitment domain-containing protein 10	115859	5.74	36	1	1
CASPE_HUMAN	Caspase-14	27662	5.44	69	2	1
CASP8_HUMAN	Caspase-8	55391	4.99	40	2	1
CTND2_HUMAN	Catenin delta-2	132656	7.78	47	1	1
CD44_HUMAN	CD44 antigen	81487	5.13	35	1	1
CP250_HUMAN	Centrosome-associated protein CEP250	281137	5.00	35	1	1
CERU_HUMAN	Ceruloplasmin	122128	5.44	3898	131	37
CH3L1_HUMAN	Chitinase-3-like protein 1	42598	8.69	41	2	1
CHLE_HUMAN	Cholinesterase	68374	7.12	268	10	9
CHD7_HUMAN	Chromodomain-helicase-DNA-binding protein 7	335717	5.95	41	1	1
CFA43_HUMAN	Cilia- and flagella-associated protein 43	191861	5.71	41	1	1
CLH1_HUMAN	Clathrin heavy chain 1	191493	5.48	38	1	1
CLH2_HUMAN	Clathrin heavy chain 2	186910	5.57	39	1	1
CLAP2_HUMAN	CLIP-associating protein 2	141046	8.62	37	1	1
CLUS_HUMAN	Clusterin	52461	5.88	726	23	12
FA9_HUMAN	Coagulation factor IX	51745	5.34	109	3	3
FA5_HUMAN	Coagulation factor V	251546	5.68	64	1	1
FA10_HUMAN	Coagulation factor X	54697	5.68	145	5	3
FA11_HUMAN	Coagulation factor XI	70064	8.47	60	1	1
FA12_HUMAN	Coagulation factor XII	67748	8.04	70	4	4
F13B_HUMAN	Coagulation factor XIII B chain	75461	6.01	254	8	6
CC141_HUMAN	Coiled-coil domain-containing protein 141	166157	5.41	45	3	1
CC186_HUMAN	Coiled-coil domain-containing protein 186	103687	5.94	37	1	1
CCD89_HUMAN	Coiled-coil domain-containing protein 89	43809	5.33	38	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
CCD96_HUMAN	Coiled-coil domain-containing protein 96	62711	4.92	43	1	1
COL11_HUMAN	Collectin-11	28647	5.26	40	1	1
C1QA_HUMAN	Complement C1q subcomponent subunit A	26000	9.26	124	2	2
C1QB_HUMAN	Complement C1q subcomponent subunit B	26704	8.83	467	12	4
C1QC_HUMAN	Complement C1q subcomponent subunit C	25757	8.61	419	9	5
C1R_HUMAN	Complement C1r subcomponent	80067	5.82	682	22	13
C1RL_HUMAN	Complement C1r subcomponent-like protein	53464	6.75	149	6	5
C1S_HUMAN	Complement C1s subcomponent	76635	4.85	855	28	16
CO2_HUMAN	Complement C2	83214	7.23	698	23	15
CO3_HUMAN	Complement C3	187030	6.02	102	3	3
CO4A_HUMAN	Complement C4-A	192664	6.66	2936	90	44
CO4B_HUMAN	Complement C4-B	192631	6.89	3022	93	46
CO5_HUMAN	Complement C5	188186	6.11	1100	41	30
CO6_HUMAN	Complement component C6	104718	6.39	989	30	18
CO7_HUMAN	Complement component C7	93457	6.09	720	27	16
CO8A_HUMAN	Complement component C8 alpha chain	65121	6.07	392	12	8
CO8B_HUMAN	Complement component C8 beta chain	67003	8.50	452	16	13
CO8G_HUMAN	Complement component C8 gamma chain	22264	8.49	661	18	9
CO9_HUMAN	Complement component C9	63133	5.43	802	25	14
CFAB_HUMAN	Complement factor B	85479	6.67	1664	56	26
CFAD_HUMAN	Complement factor D	27016	7.65	126	4	2
CFAH_HUMAN	Complement factor H	139005	6.21	1758	62	37
FHR1_HUMAN	Complement factor H-related protein 1	37626	7.39	244	5	3
FHR2_HUMAN	Complement factor H-related protein 2	30631	6.00	309	6	4
FHR3_HUMAN	Complement factor H-related protein 3	37299	7.72	96	3	2
FHR5_HUMAN	Complement factor H-related protein 5	64377	6.80	53	1	1
CFAI_HUMAN	Complement factor I	65707	7.72	1222	31	15
CBG_HUMAN	Corticosteroid-binding globulin	45112	5.64	258	8	5
CRP_HUMAN	C-reactive protein	25023	5.45	268	8	4
PYRG1_HUMAN	CTP synthase 1	66648	6.02	36	1	1
CUZD1_HUMAN	CUB and zona pellucida-like domain-containing protein 1	68153	6.05	38	1	1
C19L2_HUMAN	CWF19-like protein 2	103787	8.78	40	1	1
CDK13_HUMAN	Cyclin-dependent kinase 13	164923	9.71	37	1	1
CYTA_HUMAN	Cystatin-A	11000	5.38	67	1	1
CYTC_HUMAN	Cystatin-C	15789	9.00	65	1	1
CRIS3_HUMAN	Cysteine-rich secretory protein 3	27612	8.09	106	4	3
CREL1_HUMAN	Cysteine-rich with EGF-like domain protein 1	45409	4.81	38	1	1
QCR2_HUMAN	Cytochrome b-c1 complex subunit 2, mitochondrial	48413	8.74	37	1	1
CP4FN_HUMAN	Cytochrome P450 4F22	61958	8.95	38	1	1
DYHC1_HUMAN	Cytoplasmic dynein 1 heavy chain 1	532072	6.01	43	1	1
CPEB3_HUMAN	Cytoplasmic polyadenylation element-binding protein 3	76014	6.56	37	1	1
NCK2_HUMAN	Cytoplasmic protein NCK2	42915	6.49	37	1	1
5NT3A_HUMAN	Cytosolic 5'-nucleotidase 3A	37924	6.67	36	1	1
BDH_HUMAN	D-beta-hydroxybutyrate dehydrogenase, mitochondrial	38157	9.10	45	1	1
DOC10_HUMAN	Dedicator of cytokinesis protein 10	249373	6.72	35	1	1
DOCK8_HUMAN	Dedicator of cytokinesis protein 8	238377	6.43	38	1	1
DLL1_HUMAN	Delta-like protein 1	78004	5.85	36	1	1
DCD_HUMAN	Dermcidin	11277	6.09	190	5	4
DESM_HUMAN	Desmin	53536	5.21	38	1	1
DSC1_HUMAN	Desmocollin-1	99924	5.25	52	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
DSG1_HUMAN	Desmoglein-1	113676	4.90	74	1	1
DESP_HUMAN	Desmoplakin	331569	6.44	142	6	6
DGKH_HUMAN	Diacylglycerol kinase eta	134866	6.11	38	1	1
DPYD_HUMAN	Dihydropyrimidine dehydrogenase [NADP(+)]	111329	6.80	38	1	1
ERC6L_HUMAN	DNA excision repair protein ERCC-6-like	141103	5.19	37	1	1
MLH3_HUMAN	DNA mismatch repair protein Mlh3	163607	6.33	42	1	1
REV3L_HUMAN	DNA polymerase zeta catalytic subunit	352554	8.72	38	1	1
RPC1_HUMAN	DNA-directed RNA polymerase III subunit RPC1	155542	8.76	40	1	1
DOPO_HUMAN	Dopamine beta-hydroxylase	69021	5.97	42	1	1
TESK2_HUMAN	Dual specificity testis-specific protein kinase 2	63639	6.63	40	1	1
DYR1A_HUMAN	Dual specificity tyrosine-phosphorylation-regulated kinase 1A	85584	8.90	35	1	1
DYH3_HUMAN	Dynein heavy chain 3, axonemal	470468	6.04	38	1	1
DYH7_HUMAN	Dynein heavy chain 7, axonemal	460862	5.70	38	1	1
DYST_HUMAN	Dystonin	860127	5.14	44	1	1
RBP2_HUMAN	E3 SUMO-protein ligase RanBP2	357974	5.86	41	2	1
HECW1_HUMAN	E3 ubiquitin-protein ligase HECW1	179554	5.33	36	1	1
RN149_HUMAN	E3 ubiquitin-protein ligase RNF149	43137	6.08	35	1	1
RN213_HUMAN	E3 ubiquitin-protein ligase RNF213	591030	6.05	41	1	1
TRI47_HUMAN	E3 ubiquitin-protein ligase TRIM47	69532	6.03	35	1	1
XIAP_HUMAN	E3 ubiquitin-protein ligase XIAP	56648	6.22	43	1	1
EMAL2_HUMAN	Echinoderm microtubule-associated protein-like 2	70634	5.86	49	2	1
EFTS_HUMAN	Elongation factor Ts, mitochondrial	35391	8.62	35	1	1
MECR_HUMAN	Enoyl-[acyl-carrier-protein] reductase, mitochondrial	40436	8.99	39	1	1
ECHD2_HUMAN	Enoyl-CoA hydratase domain-containing protein 2, mitochondrial	31106	9.03	37	1	1
EMC10_HUMAN	ER membrane protein complex subunit 10	27347	5.78	36	1	1
EPOR_HUMAN	Erythropoietin receptor	55031	4.64	35	1	1
ECM1_HUMAN	Extracellular matrix protein 1	60635	6.25	91	2	1
FRAS1_HUMAN	Extracellular matrix protein FRAS1	442928	5.32	45	1	1
SODE_HUMAN	Extracellular superoxide dismutase [Cu-Zn]	25835	6.13	48	1	1
FANCI_HUMAN	Fanconi anemia group I protein	149229	6.31	43	1	1
FAN1_HUMAN	Fanconi-associated nuclease 1	114152	7.10	45	1	1
FABP5_HUMAN	Fatty acid-binding protein 5	15155	6.59	37	1	1
FBX43_HUMAN	F-box only protein 43	78402	8.40	35	1	1
FRPD1_HUMAN	FERM and PDZ domain-containing protein 1	173437	5.14	46	1	1
FETUB_HUMAN	Fetuin-B	42028	6.46	57	2	1
FIBA_HUMAN	Fibrinogen alpha chain	94914	5.70	96	3	2
FIBG_HUMAN	Fibrinogen gamma chain	51479	5.37	55	1	1
FINC_HUMAN	Fibronectin	262460	5.46	3431	115	50
FBLN1_HUMAN	Fibulin-1	77162	5.07	102	4	4
FCN3_HUMAN	Ficolin-3	32882	6.20	533	12	7
FILA2_HUMAN	Filaggrin-2	247928	8.45	71	1	1
FOLR2_HUMAN	Folate receptor beta	29280	7.50	35	1	1
FOXN3_HUMAN	Forkhead box protein N3	53835	6.19	35	1	1
FGD4_HUMAN	FYVE, RhoGEF and PH domain-containing protein 4	86571	5.80	40	1	1
LG3BP_HUMAN	Galectin-3-binding protein	65289	5.12	42	1	1
CRYGS_HUMAN	Gamma-crystallin S	20993	6.43	45	1	1
GSDME_HUMAN	Gasdermin-E	54555	5.03	43	1	1
GELS_HUMAN	Gelsolin	85644	5.90	1380	32	13
GRDN_HUMAN	Girdin	215909	5.90	46	2	1
GFAP_HUMAN	Glial fibrillary acidic protein	49850	5.42	113	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
GRIK4_HUMAN	Glutamate receptor ionotropic, kainate 4	107176	6.30	39	1	1
GPX3_HUMAN	Glutathione peroxidase 3	25537	8.26	118	4	3
G3P_HUMAN	Glyceraldehyde-3-phosphate dehydrogenase	36030	8.57	61	1	1
GLRB_HUMAN	Glycine receptor subunit beta	56086	9.03	36	1	1
GTDC1_HUMAN	Glycosyltransferase-like domain-containing protein 1	52563	6.83	56	2	1
GOGA4_HUMAN	Golgin subfamily A member 4	260980	5.33	39	2	1
PIGT_HUMAN	GPI transamidase component PIG-T	65658	8.64	44	1	1
GRAH_HUMAN	Granzyme H	27297	9.83	54	1	1
GRAM_HUMAN	Granzyme M	27545	10.16	52	1	1
GARE2_HUMAN	GRB2-associated and regulator of MAPK protein 2	92882	6.48	40	1	1
GAB1_HUMAN	GRB2-associated-binding protein 1	76616	5.63	36	1	1
GRAPL_HUMAN	GRB2-related adapter protein-like	13442	7.89	35	1	1
DKC1_HUMAN	H/ACA ribonucleoprotein complex subunit DKC1	57638	9.46	39	1	1
HAUS3_HUMAN	HAUS augmin-like complex subunit 3	69650	5.39	36	1	1
HAUS4_HUMAN	HAUS augmin-like complex subunit 4	42373	5.52	35	1	1
HSF1_HUMAN	Heat shock factor protein 1	57260	5.02	38	1	1
HBA_HUMAN	Hemoglobin subunit alpha	15248	8.72	54	1	1
HBB_HUMAN	Hemoglobin subunit beta	15988	6.74	70	1	1
HEMO_HUMAN	Hemopexin	51643	6.55	2143	84	21
HEP2_HUMAN	Heparin cofactor 2	57034	6.41	560	20	12
HGFA_HUMAN	Hepatocyte growth factor activator	70636	6.99	128	2	2
HGFL_HUMAN	Hepatocyte growth factor-like protein	80268	7.98	72	1	1
HNRDL_HUMAN	Heterogeneous nuclear ribonucleoprotein D-like	46409	9.59	39	1	1
PDE9A_HUMAN	High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A	68493	5.85	37	1	1
HRG_HUMAN	Histidine-rich glycoprotein	59541	7.09	553	15	8
H11_HUMAN	Histone H1.1	21829	10.99	76	1	1
H12_HUMAN	Histone H1.2	21352	10.94	76	1	1
H13_HUMAN	Histone H1.3	22336	11.02	58	1	1
H15_HUMAN	Histone H1.5	22580	10.91	39	1	1
H1T_HUMAN	Histone H1t	22006	11.71	76	1	1
H2AV_HUMAN	Histone H2A.V	13501	10.58	35	1	1
H4_HUMAN	Histone H4	11360	11.36	51	1	1
KMT2D_HUMAN	Histone-lysine N-methyltransferase 2D	593017	5.40	37	1	1
EHMT2_HUMAN	Histone-lysine N-methyltransferase EHMT2	132370	5.30	38	1	1
SIX4_HUMAN	Homeobox protein SIX4	82933	5.45	40	1	1
HORN_HUMAN	Hornerin	282228	10.05	130	3	2
HABP2_HUMAN	Hyaluronan-binding protein 2	62630	6.09	99	3	3
IGHA1_HUMAN	Ig alpha-1 chain C region	37631	6.08	47	1	1
IGHG1_HUMAN	Ig gamma-1 chain C region	36083	8.46	54	1	1
IGKC_HUMAN	Ig kappa chain C region	11602	6.11	132	2	1
FCGBP_HUMAN	IgGFc-binding protein	571639	5.14	61	2	2
IGLC2_HUMAN	Immunoglobulin lambda constant 2	11287	6.91	55	1	1
IGLC6_HUMAN	Immunoglobulin lambda constant 6	11270	6.91	42	1	1
IGLL5_HUMAN	Immunoglobulin lambda-like polypeptide 5	23049	9.08	42	1	1
GT253_HUMAN	Inactive glycosyltransferase 25 family member 3	67592	5.70	36	1	1
INCE_HUMAN	Inner centromere protein	105429	9.46	35	1	1
INP5K_HUMAN	Inositol polyphosphate 5-phosphatase K	51058	6.07	37	1	1
IRS1_HUMAN	Insulin receptor substrate 1	131509	8.83	62	1	1
IRS4_HUMAN	Insulin receptor substrate 4	133685	8.72	40	1	1
IGF2_HUMAN	Insulin-like growth factor II	20127	9.50	67	1	1
IBP3_HUMAN	Insulin-like growth factor-binding protein 3	31654	9.03	69	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
IBP6_HUMAN	Insulin-like growth factor-binding protein 6	25306	8.15	54	1	1
ALS_HUMAN	Insulin-like growth factor-binding protein complex acid labile subunit	65994	6.33	398	13	13
ITAM_HUMAN	Integrin alpha-M	127179	6.88	37	1	1
ITIH1_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H1	101326	6.31	1903	48	19
ITIH2_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H2	106397	6.40	2189	56	20
ITIH3_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H3	99787	5.49	643	20	13
ITIH4_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H4	103293	6.51	2266	69	24
ITIH6_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H6	143098	9.10	41	1	1
GVIN1_HUMAN	Interferon-induced very large GTPase 1	279048	6.12	35	1	1
IL23R_HUMAN	Interleukin-23 receptor	71722	5.32	37	1	1
IL6RB_HUMAN	Interleukin-6 receptor subunit beta	103471	5.62	43	1	1
IFT46_HUMAN	Intraflagellar transport protein 46 homolog	34265	4.37	42	1	1
IDH3A_HUMAN	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	39592	6.46	36	1	1
PLAK_HUMAN	Junction plakoglobin	81693	5.75	60	1	1
JAM3_HUMAN	Junctional adhesion molecule C	35020	7.53	39	1	1
KLK10_HUMAN	Kallikrein-10	30170	8.95	37	1	1
KAIN_HUMAN	Kallistatin	48511	7.34	325	16	11
KLH26_HUMAN	Kelch-like protein 26	68096	6.04	43	1	1
KPRP_HUMAN	Keratinocyte proline-rich protein	64093	8.72	36	1	1
KINH_HUMAN	Kinesin-1 heavy chain	109617	6.12	45	1	1
KI18A_HUMAN	Kinesin-like protein KIF18A	102216	9.09	42	2	1
KNTC1_HUMAN	Kinetochores-associated protein 1	250749	5.67	35	1	1
KNG1_HUMAN	Kininogen-1	71912	6.34	939	32	15
LAMA1_HUMAN	Laminin subunit alpha-1	337084	5.93	36	1	1
LAMA5_HUMAN	Laminin subunit alpha-5	399479	6.66	39	1	1
LURA1_HUMAN	Leucine rich adaptor protein 1	25806	4.74	39	1	1
A2GL_HUMAN	Leucine-rich alpha-2-glycoprotein	38154	6.45	302	10	6
LRC31_HUMAN	Leucine-rich repeat-containing protein 31	61450	5.71	39	1	1
LRC47_HUMAN	Leucine-rich repeat-containing protein 47	63434	8.55	38	1	1
LIMC1_HUMAN	LIM and calponin homology domains-containing protein 1	121867	6.10	41	1	1
LIMA1_HUMAN	LIM domain and actin-binding protein 1	85226	6.41	39	2	1
LBP_HUMAN	Lipopolysaccharide-binding protein	53350	6.23	152	6	5
LOXH1_HUMAN	Lipoxygenase homology domain-containing protein 1	221807	5.38	45	1	1
LIPA3_HUMAN	Liprin-alpha-3	133496	5.53	35	1	1
LDHA_HUMAN	L-lactate dehydrogenase A chain	36665	8.44	39	1	1
S27A6_HUMAN	Long-chain fatty acid transport protein 6	70067	8.75	43	3	1
ACSL6_HUMAN	Long-chain-fatty-acid-CoA ligase 6	77752	7.20	64	3	1
ACBG2_HUMAN	Long-chain-fatty-acid-CoA ligase ACSBG2	74306	8.67	38	1	1
FCG3A_HUMAN	Low affinity immunoglobulin gamma Fc region receptor III-A	29071	8.20	40	1	1
LYAM1_HUMAN	L-selectin	42159	6.20	89	3	3
LUM_HUMAN	Lumican	38405	6.16	433	14	9
KDM1A_HUMAN	Lysine-specific histone demethylase 1A	92903	6.11	38	1	1
LAMP2_HUMAN	Lysosome-associated membrane glycoprotein 2	44932	5.35	59	1	1
LYSC_HUMAN	Lysozyme C	16526	9.38	77	2	1
CSF1R_HUMAN	Macrophage colony-stimulating factor 1 receptor	107915	5.93	38	1	1
MASP1_HUMAN	Mannan-binding lectin serine protease 1	79195	5.29	104	4	1
MBL2_HUMAN	Mannose-binding protein C	26127	5.39	517	13	7
MA1C1_HUMAN	Mannosyl-oligosaccharide 1,2-alpha-mannosidase IC	70911	7.01	40	2	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
MATN4_HUMAN	Matrilin-4	68487	5.73	35	1	1
MBTD1_HUMAN	MBT domain-containing protein 1	70502	7.96	35	1	1
MED23_HUMAN	Mediator of RNA polymerase II transcription subunit 23	156474	7.09	39	2	1
MEIOC_HUMAN	Meiosis-specific coiled-coil domain-containing protein MEIOC	107559	6.68	46	2	1
TIMP1_HUMAN	Metalloproteinase inhibitor 1	23156	8.46	82	2	2
MCPH1_HUMAN	Microcephalin	92818	8.56	36	1	1
MACF1_HUMAN	Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5	837787	5.28	36	1	1
MAST4_HUMAN	Microtubule-associated serine/threonine-protein kinase 4	284202	8.85	38	1	1
S2542_HUMAN	Mitochondrial coenzyme A transporter SLC25A42	35387	10.08	38	1	1
MK13_HUMAN	Mitogen-activated protein kinase 13	42090	8.48	35	1	1
CD14_HUMAN	Monocyte differentiation antigen CD14	40051	5.84	67	1	1
CAPAM_HUMAN	mRNA (2'-O-methyladenosine-N(6)-methyltransferase	80670	7.09	35	1	1
MCE1_HUMAN	mRNA-capping enzyme	68513	8.43	54	1	1
MMRN1_HUMAN	Multimerin-1	138023	8.15	35	1	1
MYBA_HUMAN	Myb-related protein A	85833	6.69	39	1	1
MYT1_HUMAN	Myelin transcription factor 1	122254	4.81	41	1	1
MYLK_HUMAN	Myosin light chain kinase, smooth muscle	210583	5.85	41	2	1
MYH11_HUMAN	Myosin-11	227199	5.42	45	2	1
MYPC1_HUMAN	Myosin-binding protein C, slow-type	128214	5.78	37	1	1
MTA70_HUMAN	N6-adenosine-methyltransferase catalytic subunit	64474	5.98	37	1	1
PGRP2_HUMAN	N-acetylmuramoyl-L-alanine amidase	62178	7.25	290	8	6
NAPEP_HUMAN	N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D	45566	5.71	40	1	1
NCKPL_HUMAN	Nck-associated protein 1-like	128153	6.39	47	1	1
N4BP1_HUMAN	NEDD4-binding protein 1	100379	5.24	35	1	1
NCAM1_HUMAN	Neural cell adhesion molecule 1	94515	4.79	65	1	1
NCHL1_HUMAN	Neural cell adhesion molecule L1-like protein	134987	5.51	44	1	1
NBAS_HUMAN	Neuroblastoma-amplified sequence	268401	5.65	39	1	1
NFH_HUMAN	Neurofilament heavy polypeptide	112411	5.99	62	1	1
NAV2_HUMAN	Neuron navigator 2	268003	9.13	36	1	1
DCX_HUMAN	Neuronal migration protein doublecortin	40548	9.33	44	1	1
NRP1_HUMAN	Neuropilin-1	103069	5.58	44	1	1
GANAB_HUMAN	Neutral alpha-glucosidase AB	106874	5.74	36	1	1
GANC_HUMAN	Neutral alpha-glucosidase C	104268	5.82	45	3	1
NCF2_HUMAN	Neutrophil cytosol factor 2	59762	5.88	35	1	1
DEF1_HUMAN	Neutrophil defensin 1	10194	6.54	161	4	2
NGAL_HUMAN	Neutrophil gelatinase-associated lipocalin	22574	9.02	69	1	1
SMYD2_HUMAN	N-lysine methyltransferase SMYD2	49688	6.27	35	1	1
NU153_HUMAN	Nuclear pore complex protein Nup153	153938	8.97	65	2	1
NUP98_HUMAN	Nuclear pore complex protein Nup98-Nup96	197457	5.97	43	1	1
NCOA3_HUMAN	Nuclear receptor coactivator 3	155195	7.16	37	1	1
O6C74_HUMAN	Olfactory receptor 6C74	35230	8.95	42	2	1
PAX5_HUMAN	Paired box protein Pax-5	42149	9.08	35	1	1
AMYP_HUMAN	Pancreatic alpha-amylase	57670	6.60	156	3	2
PI16_HUMAN	Peptidase inhibitor 16	49440	5.24	60	1	1
PCNT_HUMAN	Pericentrin	377806	5.40	40	1	1
PRDX1_HUMAN	Peroxiredoxin-1	22096	8.27	35	1	1
PRDX2_HUMAN	Peroxiredoxin-2	21878	5.66	48	2	2
OCTC_HUMAN	Peroxisomal carnitine O-octanoyltransferase	70133	6.63	36	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
PEX1_HUMAN	Peroxisome biogenesis factor 1	142867	5.91	39	1	1
PSD3_HUMAN	PH and SEC7 domain-containing protein 3	115962	5.68	35	1	1
LCAT_HUMAN	Phosphatidylcholine-sterol acyltransferase	49546	5.71	40	1	1
PREX1_HUMAN	Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 1 protein	186085	6.03	35	1	1
PI4KA_HUMAN	Phosphatidylinositol 4-kinase alpha	236830	6.64	35	1	1
P3C2B_HUMAN	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta	184651	6.95	35	1	1
PEDF_HUMAN	Pigment epithelium-derived factor	46283	5.97	679	16	11
PKP1_HUMAN	Plakophilin-1	82808	9.29	50	1	1
PKP2_HUMAN	Plakophilin-2	97355	9.39	42	1	1
KLKB1_HUMAN	Plasma kallikrein	71323	8.60	458	13	10
AT2B4_HUMAN	Plasma membrane calcium-transporting ATPase 4	137920	6.19	35	1	1
IC1_HUMAN	Plasma protease C1 inhibitor	55119	6.09	513	18	11
IPSP_HUMAN	Plasma serine protease inhibitor	45646	9.30	225	6	5
PLMN_HUMAN	Plasminogen	90510	7.04	1588	59	27
PLGB_HUMAN	Plasminogen-like protein B	10964	6.11	37	1	1
CXCL7_HUMAN	Platelet basic protein	13885	9.04	650	16	6
PF4V_HUMAN	Platelet factor 4 variant	11545	9.30	50	1	1
GP1BA_HUMAN	Platelet glycoprotein Ib alpha chain	71495	5.87	65	2	2
PLXC1_HUMAN	Plexin-C1	175630	7.78	37	1	1
PTBP1_HUMAN	Polypyrimidine tract-binding protein 1	57221	9.22	62	3	1
PZP_HUMAN	Pregnancy zone protein	163760	5.97	440	14	13
DDX58_HUMAN	Probable ATP-dependent RNA helicase DDX58	106531	6.03	37	1	1
HERC1_HUMAN	Probable E3 ubiquitin-protein ligase HERC1	532228	5.69	40	1	1
PCOC1_HUMAN	Procollagen C-endopeptidase enhancer 1	47972	7.41	35	2	1
PENK_HUMAN	Proenkephalin-A	30787	5.44	40	1	1
PIP_HUMAN	Prolactin-inducible protein	16562	8.26	109	2	2
PRELP_HUMAN	Prolargin	43782	9.47	35	1	1
PRR30_HUMAN	Proline-rich protein 30	44662	10.39	44	2	1
SEPR_HUMAN	Prolyl endopeptidase FAP	87657	6.21	39	1	1
PROP_HUMAN	Properdin	51242	8.32	37	1	1
PTGDS_HUMAN	Prostaglandin-H2 D-isomerase	21015	7.66	149	3	1
AMBP_HUMAN	Protein AMBP	38974	5.95	767	17	8
BICD2_HUMAN	Protein bicaudal D homolog 2	93476	5.35	41	1	1
C2D2B_HUMAN	Protein CC2D2B	122955	6.68	45	1	1
DIAP3_HUMAN	Protein diaphanous homolog 3	136926	6.64	38	1	1
F102A_HUMAN	Protein FAM102A	41759	8.83	41	1	1
F219A_HUMAN	Protein FAM219A	20400	4.53	38	1	1
FAM74_HUMAN	Protein FAM74A4/A6	14773	10.66	39	1	1
HID1_HUMAN	Protein HID1	88689	5.69	53	1	1
KPCI_HUMAN	Protein kinase C iota type	68262	5.54	36	1	1
LIAT1_HUMAN	Protein LIAT1	49656	7.79	36	1	1
PAR14_HUMAN	Protein mono-ADP-ribosyltransferase PARP14	202672	6.81	35	1	1
PAR15_HUMAN	Protein mono-ADP-ribosyltransferase PARP15	74529	9.02	38	1	1
PP14D_HUMAN	Protein phosphatase 1 regulatory subunit 14D	16497	7.72	38	1	1
PPR27_HUMAN	Protein phosphatase 1 regulatory subunit 27	17427	6.51	54	1	1
PR14L_HUMAN	Protein PRR14L	237300	5.93	37	1	1
S10A2_HUMAN	Protein S100-A2	11109	4.68	42	1	1
S10A7_HUMAN	Protein S100-A7	11464	6.27	59	1	1
S10A8_HUMAN	Protein S100-A8	10828	6.50	272	12	5
S10A9_HUMAN	Protein S100-A9	13234	5.71	142	5	4
SLN14_HUMAN	Protein SLFN14	103840	8.57	39	1	1
SC61G_HUMAN	Protein transport protein Sec61 subunit gamma	7741	10.01	45	4	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
YIPF3_HUMAN	Protein YIPF3	38223	5.47	35	1	1
ZPI_HUMAN	Protein Z-dependent protease inhibitor	50674	8.28	121	2	2
ZN767_HUMAN	Protein ZNF767	17225	9.66	43	1	1
PRG4_HUMAN	Proteoglycan 4	150984	9.54	42	1	1
THRB_HUMAN	Prothrombin	69992	5.63	1315	37	15
PCL11_HUMAN	PTB-containing, cubilin and LRP1-interacting protein	28272	6.53	48	1	1
PSA_HUMAN	Puromycin-sensitive aminopeptidase	103276	5.49	37	1	1
ANR31_HUMAN	Putative ankyrin repeat domain-containing protein 31	210685	5.82	35	1	1
CROL2_HUMAN	Putative ciliary rootlet coiled-coil protein-like 2 protein	33334	10.84	47	1	1
HSP77_HUMAN	Putative heat shock 70 kDa protein 7	40220	7.72	48	1	1
HYI_HUMAN	Putative hydroxypyruvate isomerase	30387	5.36	62	2	1
MST1L_HUMAN	Putative macrophage stimulating 1-like protein	79642	8.16	48	1	1
PI4P2_HUMAN	Putative phosphatidylinositol 4-kinase alpha-like protein P2	66944	6.68	35	1	1
ASXL1_HUMAN	Putative Polycomb group protein ASXL1	165345	5.85	37	2	1
ATPUN_HUMAN	Putative protein ATP11AUN	13416	8.66	35	1	1
P5CR2_HUMAN	Pyrroline-5-carboxylate reductase 2	33616	7.66	44	1	1
RABE1_HUMAN	Rab GTPase-binding effector protein 1	99229	4.95	36	1	1
RFTN1_HUMAN	Raftlin	63146	5.46	37	1	1
REPS1_HUMAN	RalBP1-associated Eps domain-containing protein 1	86662	5.45	35	1	1
RGPD1_HUMAN	RANBP2-like and GRIP domain-containing protein 1	196539	5.80	41	2	1
RGPD4_HUMAN	RANBP2-like and GRIP domain-containing protein 4	197166	5.90	41	2	1
RGPD5_HUMAN	RANBP2-like and GRIP domain-containing protein 5/6	198800	6.03	41	2	1
RGPD8_HUMAN	RANBP2-like and GRIP domain-containing protein 8	198869	6.09	36	1	1
RPGF5_HUMAN	Rap guanine nucleotide exchange factor 5	67733	5.89	35	1	1
REEP5_HUMAN	Receptor expression-enhancing protein 5	21479	8.25	56	1	1
FLT3_HUMAN	Receptor-type tyrosine-protein kinase FLT3	112830	5.48	37	1	1
PTPRE_HUMAN	Receptor-type tyrosine-protein phosphatase epsilon	80642	6.57	36	1	1
RET4_HUMAN	Retinol-binding protein 4	22995	5.76	1230	38	9
ARHGH_HUMAN	Rho guanine nucleotide exchange factor 17	221535	5.90	36	1	1
ROCK2_HUMAN	Rho-associated protein kinase 2	160799	5.75	40	1	1
GRK7_HUMAN	Rhodopsin kinase	62212	6.18	60	3	1
RNAS1_HUMAN	Ribonuclease pancreatic	17633	9.10	42	1	1
RIM3A_HUMAN	RIMS-binding protein 3A	180605	6.46	48	1	1
M10L1_HUMAN	RNA helicase Mov1011	135207	6.07	36	1	1
RMXL3_HUMAN	RNA-binding motif protein, X-linked-like-3	114868	9.19	36	1	1
RBM34_HUMAN	RNA-binding protein 34	48535	10.11	39	1	1
CROCC_HUMAN	Rootletin	228523	5.45	47	1	1
RYR1_HUMAN	Ryanodine receptor 1	564815	5.18	41	1	1
TYW1_HUMAN	S-adenosyl-L-methionine-dependent tRNA 4-demethylwyosine synthase	83702	6.42	35	1	1
C163A_HUMAN	Scavenger receptor cysteine-rich type 1 protein M130	125369	5.61	62	1	1
SPP24_HUMAN	Secreted phosphoprotein 24	24322	8.59	46	1	1
SPS1_HUMAN	Selenide, water dikinase 1	42911	5.65	38	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
SELH_HUMAN	Selenoprotein H	13453	9.76	35	1	1
SEPP1_HUMAN	Selenoprotein P	43156	8.08	90	1	1
SRRM3_HUMAN	Serine/arginine repetitive matrix protein 3	65210	11.68	38	1	1
ATR_HUMAN	Serine/threonine-protein kinase ATR	301172	7.17	35	1	1
NIM1_HUMAN	Serine/threonine-protein kinase NIM1	49606	8.53	41	2	1
PINK1_HUMAN	Serine/threonine-protein kinase PINK1, mitochondrial	62729	9.43	37	1	1
SBK1_HUMAN	Serine/threonine-protein kinase SBK1	46252	9.28	35	1	1
SPB12_HUMAN	Serpin B12	46247	5.36	36	1	1
ALBU_HUMAN	Serum albumin	69321	5.92	307	11	10
SAA1_HUMAN	Serum amyloid A-1 protein	13524	6.28	104	3	3
SAA4_HUMAN	Serum amyloid A-4 protein	14737	9.17	115	3	2
SAMP_HUMAN	Serum amyloid P-component	25371	6.10	697	19	7
SHBG_HUMAN	Sex hormone-binding globulin	43752	6.22	131	4	2
SPP2B_HUMAN	Signal peptide peptidase-like 2B	64644	8.67	37	1	1
SCUB3_HUMAN	Signal peptide, CUB and EGF-like domain-containing protein 3	109210	7.85	35	1	1
STA5A_HUMAN	Signal transducer and activator of transcription 5A	90590	5.98	36	1	1
SMCO2_HUMAN	Single-pass membrane and coiled-coil domain-containing protein 2	39462	4.74	35	1	1
UTP20_HUMAN	Small subunit processome component 20 homolog	318182	7.07	38	1	1
DGLB_HUMAN	Sn1-specific diacylglycerol lipase beta	73684	6.09	36	1	1
SCNBA_HUMAN	Sodium channel protein type 11 subunit alpha	204788	8.32	40	1	1
S6A15_HUMAN	Sodium-dependent neutral amino acid transporter B(0)AT2	81836	5.06	41	1	1
S12A7_HUMAN	Solute carrier family 12 member 7	119029	6.28	37	1	1
S7A13_HUMAN	Solute carrier family 7 member 13	52080	9.08	46	1	1
SORT_HUMAN	Sortilin	92009	5.46	65	2	1
SPRC_HUMAN	SPARC	34610	4.73	69	2	1
SACA1_HUMAN	Sperm acrosome membrane-associated protein 1	32123	4.55	35	1	1
SF3B1_HUMAN	Splicing factor 3B subunit 1	145738	6.65	38	1	1
SRCN1_HUMAN	SRC kinase signaling inhibitor 1	127105	9.39	39	1	1
STA13_HUMAN	StAR-related lipid transfer protein 13	124889	6.57	40	1	1
STAR9_HUMAN	StAR-related lipid transfer protein 9	516023	5.91	40	1	1
SMC6_HUMAN	Structural maintenance of chromosomes protein 6	126246	6.57	37	1	1
SODC_HUMAN	Superoxide dismutase [Cu-Zn]	15926	5.70	60	1	1
SNED1_HUMAN	Sushi, nidogen and EGF-like domain-containing protein 1	152204	6.59	35	1	1
SMRCD_HUMAN	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A containing DEAD/H box 1	117402	5.39	42	1	1
SYCP1_HUMAN	Synaptonemal complex protein 1	114192	5.78	37	1	1
SYTL1_HUMAN	Synaptotagmin-like protein 1	61857	5.32	35	1	1
TARSH_HUMAN	Target of Nesh-SH3	118569	9.48	38	1	1
TEP1_HUMAN	Telomerase protein component 1	290307	8.26	40	1	1
TEN1_HUMAN	Teneurin-1	304817	5.98	37	1	1
TSG10_HUMAN	Testis-specific gene 10 protein	81370	5.73	45	3	1
TETN_HUMAN	Tetranectin	22522	5.52	631	15	7
TTC14_HUMAN	Tetratricopeptide repeat protein 14	88265	8.77	39	1	1
TT21B_HUMAN	Tetratricopeptide repeat protein 21B	150840	6.53	36	1	1
TTC24_HUMAN	Tetratricopeptide repeat protein 24	63396	9.37	35	1	1
TTC7A_HUMAN	Tetratricopeptide repeat protein 7A	96185	6.03	65	3	1
THAP6_HUMAN	THAP domain-containing protein 6	25674	8.99	36	1	1
THIO_HUMAN	Thioredoxin	11730	4.82	62	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
THOC2_HUMAN	THO complex subunit 2	182659	8.67	42	1	1
SYTM_HUMAN	Threonine-tRNA ligase, mitochondrial	80985	6.90	36	1	1
TSP1_HUMAN	Thrombospondin-1	129300	4.71	539	21	19
TSP2_HUMAN	Thrombospondin-2	129908	4.62	51	2	2
TSP3_HUMAN	Thrombospondin-3	104135	4.43	38	1	1
THYG_HUMAN	Thyroglobulin	304594	5.40	52	2	1
THA_HUMAN	Thyroid hormone receptor alpha	54780	6.42	46	3	1
TRIPB_HUMAN	Thyroid receptor-interacting protein 11	227447	5.18	42	1	1
THBG_HUMAN	Thyroxine-binding globulin	46295	5.87	581	20	10
TITIN_HUMAN	Titin	4E+06	6.02	36	1	1
TRAF2_HUMAN	TNF receptor-associated factor 2	55859	7.66	36	1	1
TLR5_HUMAN	Toll-like receptor 5	97771	6.21	38	1	1
TRAK2_HUMAN	Trafficking kinesin-binding protein 2	101356	5.14	45	1	1
TPPC9_HUMAN	Trafficking protein particle complex subunit 9	128449	6.17	45	2	1
TEFM_HUMAN	Transcription elongation factor, mitochondrial	41650	9.39	44	1	1
AP2E_HUMAN	Transcription factor AP-2-epsilon	46183	8.64	36	1	1
ZEP2_HUMAN	Transcription factor HIVEP2	268885	6.50	36	1	1
ZEP3_HUMAN	Transcription factor HIVEP3	259304	7.85	36	1	1
TAF7L_HUMAN	Transcription initiation factor TFIID subunit 7-like	52588	4.55	43	1	1
TTF1_HUMAN	Transcription termination factor 1	103051	9.41	36	1	1
TGFB2_HUMAN	Transforming growth factor beta-2 proprotein	47748	8.82	36	1	1
TRPM4_HUMAN	Transient receptor potential cation channel subfamily M member 4	134215	8.49	38	1	1
TMPS5_HUMAN	Transmembrane protease serine 5	49560	6.24	36	1	1
TM115_HUMAN	Transmembrane protein 115	38172	8.31	39	1	1
TTHY_HUMAN	Transthyretin	15877	5.49	74	1	1
TNR6B_HUMAN	Trinucleotide repeat-containing gene 6B protein	193883	6.31	35	1	1
TRIM7_HUMAN	Tripartite motif-containing protein 7	56595	7.81	49	1	1
TRM6_HUMAN	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit TRM6	55799	7.18	36	1	1
SEN34_HUMAN	tRNA-splicing endonuclease subunit Sen34	33631	8.53	37	1	1
TDR15_HUMAN	Tudor domain-containing protein 15	221722	6.67	37	1	1
TR11B_HUMAN	Tumor necrosis factor receptor superfamily member 11B	46026	8.66	45	2	1
PTN1_HUMAN	Tyrosine-protein phosphatase non-receptor type 1	49935	5.88	43	1	1
PTN11_HUMAN	Tyrosine-protein phosphatase non-receptor type 11	68436	6.87	39	1	1
PTN14_HUMAN	Tyrosine-protein phosphatase non-receptor type 14	135261	8.53	38	1	1
PTN21_HUMAN	Tyrosine-protein phosphatase non-receptor type 21	133281	8.00	35	1	1
IMP4_HUMAN	U3 small nucleolar ribonucleoprotein protein IMP4	33757	9.49	37	1	1
UBP29_HUMAN	Ubiquitin carboxyl-terminal hydrolase 29	104156	5.62	39	1	1
UBP47_HUMAN	Ubiquitin carboxyl-terminal hydrolase 47	157212	4.97	56	2	1
RS27A_HUMAN	Ubiquitin-40S ribosomal protein S27a	17953	9.68	44	1	1
CLBA1_HUMAN	Uncharacterized protein CLBA1	35668	5.96	35	1	1
MYO15_HUMAN	Unconventional myosin-XV	395293	9.26	39	2	1
K1324_HUMAN	UPF0577 protein KIAA1324	111382	6.13	36	1	1
UROM_HUMAN	Uromodulin	69714	5.05	83	3	3
VP13C_HUMAN	Vacuolar protein sorting-associated protein 13C	422124	6.38	37	1	1
VPS45_HUMAN	Vacuolar protein sorting-associated protein 45	65036	8.41	46	3	1
VPS8_HUMAN	Vacuolar protein sorting-associated protein 8 homolog	161754	5.41	40	1	1
VTDB_HUMAN	Vitamin D-binding protein	52929	5.32	2744	93	25
PROC_HUMAN	Vitamin K-dependent protein C	52037	5.85	54	1	1
PROS_HUMAN	Vitamin K-dependent protein S	75074	5.48	78	3	3
PROZ_HUMAN	Vitamin K-dependent protein Z	44715	5.64	56	1	1

Table SII. Continued.

Names	Description	MW, Da	pI	Protein score	Peptide matches	Unique sequences
VTNC_HUMAN	Vitronectin	54271	5.55	566	20	9
CCG6_HUMAN	Voltage-dependent calcium channel gamma-6 subunit	28129	9.40	36	1	1
LRC8B_HUMAN	Volume-regulated anion channel subunit LRRC8B	92330	6.40	40	1	1
VWF_HUMAN	von Willebrand factor	309058	5.29	90	3	3
CAHD1_HUMAN	VWFA and cache domain-containing protein 1	142198	5.97	35	1	1
WDR17_HUMAN	WD repeat-containing protein 17	147703	6.01	39	1	1
WDR60_HUMAN	WD repeat-containing protein 60	122496	6.88	35	1	1
WDR87_HUMAN	WD repeat-containing protein 87	332975	6.94	40	1	1
YETS4_HUMAN	YEATS domain-containing protein 4	26483	8.40	35	1	1
ZSC22_HUMAN	Zinc finger and SCAN domain-containing protein 22	54561	7.36	36	1	1
ZBED5_HUMAN	Zinc finger BED domain-containing protein 5	78911	8.57	37	1	1
ZC3H3_HUMAN	Zinc finger CCCH domain-containing protein 3	101941	10.95	37	1	1
ZMYM1_HUMAN	Zinc finger MYM-type protein 1	128717	7.51	35	1	1
ZN101_HUMAN	Zinc finger protein 101	50307	9.67	39	1	1
ZN107_HUMAN	Zinc finger protein 107	90614	9.43	36	1	1
ZN223_HUMAN	Zinc finger protein 223	55763	9.04	49	2	1
ZN267_HUMAN	Zinc finger protein 267	87320	9.14	37	1	1
ZEP1_HUMAN	Zinc finger protein 40	296681	7.98	36	1	1
ZN469_HUMAN	Zinc finger protein 469	410202	7.88	39	1	1
ZNF48_HUMAN	Zinc finger protein 48	67777	9.51	52	2	1
ZNF57_HUMAN	Zinc finger protein 57	64385	9.06	38	1	1
ZN578_HUMAN	Zinc finger protein 578	68531	9.19	36	1	1
ZN672_HUMAN	Zinc finger protein 672	50192	10.01	43	1	1
ZA2G_HUMAN	Zinc-alpha-2-glycoprotein	34237	5.71	774	24	12

MW, molecular weight; pI, isoelectric point.

Table SIII. Discriminatory ability of combined marker models. Models were constructed using a binary logistic regression model and the AUC of all possible combinations of markers were calculated. Comparisons between N- vs. E, N- vs. L, N+ vs. E, N+ vs. L, N+ vs. E, N+ vs. L, N- vs. E, N- vs. L, N+ vs. E, N+ vs. L groups are presented.

Model No.	No. Markers	AUC											
		Marker 1	Marker 2	Marker 3	Marker 4	Marker 5	Marker 6	N- vs. E	N- vs. L	N+ vs. E	N+ vs. L	N- vs. N+	E vs. L
1	1	AIAT						0.604	0.921	0.798	0.944	0.857	0.863
2	1		PYCR2					0.637	0.683	0.673	0.958	0.696	0.915
3	1			TTR				0.550	0.873	0.596	0.750	0.732	0.803
4	1				ApoA-I			0.890	0.952	0.644	0.750	0.875	0.641
5	1					VDBP		0.824	0.825	0.577	0.556	0.768	0.539
6	1						MMRN1	0.978	0.889	0.548	0.764	0.982	0.752
7	2	AIAT	PYCR2					0.648	0.762	0.760	0.778	0.857	0.590
8	2	AIAT		TTR				0.571	0.921	0.798	0.931	0.607	0.880
9	2	AIAT			ApoA-I			0.890	1.000	0.769	0.944	0.643	0.829
10	2	AIAT				VDBP		0.824	0.889	0.740	0.833	0.679	0.684
11	2	AIAT					MMRN1	0.967	1.000	0.798	0.917	0.714	0.735
12	2		PYCR2	TTR				0.648	0.857	0.664	0.903	0.679	0.906
13	2		PYCR2		ApoA-I			0.890	0.952	0.692	0.972	0.554	0.889
14	2		PYCR2			VDBP		0.857	0.873	0.712	0.847	0.607	0.675
15	2		PYCR2				MMRN1	0.967	0.873	0.692	0.833	0.714	0.744
16	2			TTR	ApoA-I			0.901	0.603	0.740	0.625	0.536	0.838
17	2			TTR		VDBP		0.945	0.651	0.692	0.639	0.750	0.932
18	2			TTR			MMRN1	0.967	0.683	0.625	0.819	0.839	0.872
19	2				ApoA-I	VDBP		0.934	0.651	0.510	0.597	0.643	0.607
20	2				ApoA-I		MMRN1	0.967	0.619	0.539	0.847	0.857	0.761
21	2					VDBP	MMRN1	0.967	0.667	0.587	0.764	0.982	0.573
22	3	AIAT	PYCR2	TTR				0.659	0.921	0.750	0.931	0.571	0.906
23	3	AIAT	PYCR2		ApoA-I			0.890	1.000	0.760	1.000	0.536	0.897
24	3	AIAT	PYCR2			VDBP		0.802	0.889	0.750	0.833	0.589	0.692
25	3	AIAT	PYCR2				MMRN1	0.912	1.000	0.760	0.931	0.786	0.744
26	3	AIAT		TTR	ApoA-I			0.901	0.873	0.808	0.972	0.554	0.880
27	3	AIAT		TTR		VDBP		0.890	0.905	0.760	0.931	0.732	0.932
28	3	AIAT		TTR			MMRN1	0.967	1.000	0.750	0.931	0.875	0.880
29	3	AIAT			ApoA-I	VDBP		0.945	1.000	0.798	0.958	0.661	0.829
30	3	AIAT			ApoA-I		MMRN1	0.967	1.000	0.779	0.958	0.857	0.829
31	3	AIAT				VDBP	MMRN1	0.879	1.000	0.760	0.931	0.696	0.658
32	3		PYCR2	TTR	ApoA-I			0.791	0.952	0.731	0.958	0.607	0.906
33	3		PYCR2	TTR		VDBP		0.945	0.857	0.692	0.917	0.786	0.949

Table SIII. Continued.

Model No.	No. Markers	AUC											
		Marker 1	Marker 2	Marker 3	Marker 4	Marker 5	Marker 6	N- vs. E	N- vs. L	N+ vs. E	N+ vs. L	N- vs. N+	E vs. L
34	3		PYCR2	TTR			MMRN1	0.890	0.921	0.683	0.944	0.839	0.897
35	3		PYCR2		ApoA-I	VDBP		0.681	0.952	0.702	0.944	0.679	0.932
36	3		PYCR2		ApoA-I		MMRN1	0.791	0.952	0.692	0.972	0.857	0.915
37	3		PYCR2			VDBP	MMRN1	0.835	0.905	0.760	0.833	0.696	0.778
38	3			TTR	ApoA-I	VDBP		1.000	0.635	0.808	0.681	0.786	0.932
39	3			TTR	ApoA-I		MMRN1	0.835	0.683	0.740	0.889	0.929	0.880
40	3			TTR		VDBP	MMRN1	1.000	0.667	0.683	0.833	0.929	0.915
41	3				ApoA-I	VDBP	MMRN1	0.769	0.667	0.596	0.889	0.875	0.752
42	4	AIAT	PYCR2	TTR	ApoA-I			0.857	1.000	0.817	1.000	0.589	0.906
43	4	AIAT	PYCR2	TTR		VDBP		0.912	0.889	0.731	0.944	0.804	0.949
44	4	AIAT	PYCR2	TTR			MMRN1	0.945	1.000	0.779	0.944	0.875	0.880
45	4	AIAT	PYCR2		ApoA-I	VDBP		0.780	1.000	0.817	1.000	0.661	0.932
46	4	AIAT	PYCR2		ApoA-I		MMRN1	0.923	1.000	0.798	1.000	0.875	0.906
47	4	AIAT	PYCR2			VDBP	MMRN1	0.835	0.952	0.721	0.986	0.875	0.983
48	4	AIAT		TTR	ApoA-I	VDBP		1.000	1.000	0.914	0.972	0.821	0.932
49	4	AIAT		TTR	ApoA-I		MMRN1	0.978	1.000	0.846	0.972	0.911	0.897
50	4	AIAT		TTR		VDBP	MMRN1	1.000	1.000	0.769	0.931	0.946	0.932
51	4	AIAT			ApoA-I	VDBP	MMRN1	0.868	1.000	0.798	0.958	0.875	0.829
52	4		PYCR2	TTR	ApoA-I	VDBP		1.000	0.952	0.846	0.944	0.804	0.949
53	4		PYCR2	TTR	ApoA-I		MMRN1	0.901	0.952	0.721	0.972	0.929	0.897
54	4		PYCR2	TTR		VDBP	MMRN1	1.000	0.921	0.760	0.917	0.911	0.983
55	4			TTR	ApoA-I	VDBP	MMRN1	1.000	0.698	0.856	0.889	0.946	0.932
56	5	AIAT	PYCR2	TTR	ApoA-I	VDBP		1.000	1.000	0.923	1.000	0.821	0.949
57	5	AIAT	PYCR2	TTR	ApoA-I		MMRN1	0.956	1.000	0.865	1.000	0.911	0.889
58	5	AIAT		TTR	ApoA-I	VDBP	MMRN1	1.000	1.000	0.904	0.986	0.946	0.940
59	5	AIAT	PYCR2		ApoA-I	VDBP	MMRN1	0.956	1.000	0.798	1.000	0.875	0.974
60	5	AIAT	PYCR2	TTR		VDBP	MMRN1	1.000	1.000	0.750	0.986	0.946	0.983
61	5		PYCR2	TTR	ApoA-I	VDBP	MMRN1	1.000	0.952	0.846	0.986	0.946	0.983
62	6	AIAT	PYCR2	TTR	ApoA-I	VDBP	MMRN1	1.000	1.000	0.933	1.000	0.929	0.992

Values in bold indicates the best panel marker(s) for diagnosis of each paired sample comparison. AUC, area under the ROC curve; CI, confidence interval; AIAT, α -1-antitrypsin; PYCR2, pyrroline-5-carboxylate reductase 2; TTR, transthyretin; ApoA-I, apolipoprotein A-I; VDBP, vitamin D binding protein; MMRN1, multimerin-1; N- vs. E, normal with HPV-negative vs. early stage; N- vs. L, normal with HPV negative vs. late stage; N+ vs. E, normal with HPV-positive vs. early stage; N+ vs. N+, normal with HPV-negative vs. normal with HPV-positive; E vs. L, early stage vs. late stage cervical cancer.