

# Apolipoprotein-enriched biomolecular corona switches the cellular uptake mechanism and trafficking pathway of lipid nanoparticles

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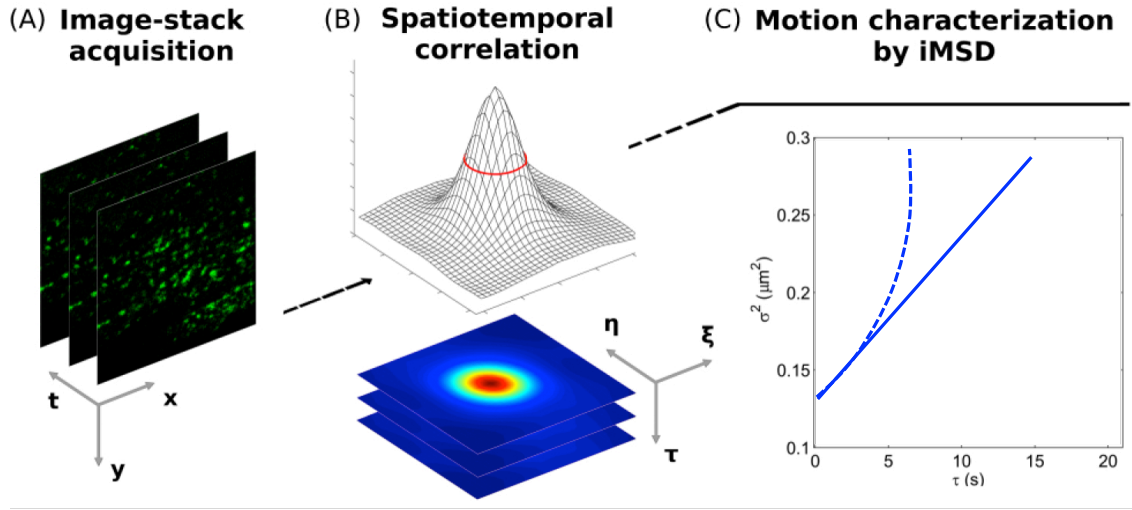
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#equal contribution



**Figure S1.** (A) Sequential image series are collected by a confocal microscope. (B) The spatiotemporal correlation function  $g$  of the fluorescence fluctuations  $\delta i$ , which are recorded pixel by pixel and frame by frame is calculated by the following relation:

$$g(\xi, \eta, \tau) = \frac{\langle i(x, y, t) i(x + \xi, y + \eta, t + \tau) \rangle}{\langle i(x, y, t) \rangle^2} - 1 \quad (1)$$

where  $\xi$  and  $\eta$  are the distance between correlated pixels in the  $x$  and  $y$  directions, respectively,  $\tau$  is the time lag,  $i(x, y, t)$  is the fluorescence intensity at point  $(x, y)$  and time  $t$ , and  $\langle i(x, y, t) i(x + \xi, y + \eta, t + \tau) \rangle$  indicates the average over spatial and time variables  $x, y$  and  $t$ . After calculation,  $g(\xi, \eta, \tau)$  fits to standard Gaussian functions, i.e.

$$g(\xi, \eta, \tau) = g_{\infty} + g_1(\tau) \exp \left\{ - \frac{(\xi - v_{\xi} \tau)^2 + (\eta - v_{\eta} \tau)^2}{\sigma^2(\tau)} \right\} \quad (2)$$

where the numerator of the exponential term describes the net flux of particles, if any, along a specific direction in terms of average velocity, i.e.  $\langle \vec{v} \rangle = \vec{v}_{\Phi} = (v_{\xi}; v_{\eta})$ . (C) The image-derived Mean

Square Displacement (*i*MSD) is given by the variance of the Gaussian function fitting spatiotemporal correlation function is given by:

$$\sigma^2(\tau) = \sigma_0^2 + 4D\tau + v_\sigma^2\tau^2 \quad (3)$$

When *i*MSD is linear (solid line)  $v_\sigma=0$  and particles undergo Brownian diffusion. On the other side, when *i*MSD is parabolic (dashed line)  $v_\sigma \neq 0$  and particles are actively transported. Thus, using Eq.3, we determined diffusion coefficient *D* and speed *v* (as  $v^2=v_\phi^2 + v_\sigma^2$ ) of bare liposomes, liposome-BC complexes and endocytic vesicles.

**Table S1.** The full list of the most abundant corona proteins associated with MC liposomes as identified by NanoLC-MS/MS.

Identified Proteins	Accession Number	Molecular Weight (kDa)	RPA (%)	St. Dev. (%)
Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1	APOA1_HUMAN	31	2.688	0.072
Apolipoprotein C-II OS=Homo sapiens GN=APOC2 PE=1 SV=1	APOC2_HUMAN	11	2.663	0.065
Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1	APOE_HUMAN	36	2.440	0.064
Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1	APOC3_HUMAN	11	2.365	0.054
Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3	APOA4_HUMAN	45	2.220	0.049
Apolipoprotein C-I OS=Homo sapiens GN=APOC1 PE=1 SV=1	APOC1_HUMAN	9	1.743	0.040
Apolipoprotein A-II OS=Homo sapiens GN=APOA2 PE=1 SV=1	APOA2_HUMAN	11	1.667	0.040
Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2	CO3_HUMAN	187	1.658	0.042
Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6	K2C1_HUMAN	66	1.505	0.042
Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2	THR_B_HUMAN	70	1.505	0.039
Complement C4-B OS=Homo sapiens GN=C4B PE=1 SV=1	CO4B_HUMAN	193	1.473	0.040
Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2	FIBB_HUMAN	56	1.460	0.038
Tropomyosin alpha-4 chain OS=Homo sapiens GN=TPM4 PE=1 SV=3	TPM4_HUMAN	29	1.437	0.041
Ig kappa chain C region OS=Homo sapiens GN=IGKC PE=1 SV=1	IGKC_HUMAN	12	1.383	0.034
Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2	ALBU_HUMAN	69	1.355	0.036
Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1	VTNC_HUMAN	54	1.295	0.031
Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2	ITIH2_HUMAN	106	1.292	0.032
Transferrin OS=Homo sapiens GN=TTR PE=1 SV=1	TTHY_HUMAN	16	1.273	0.033
Hemoglobin subunit beta OS=Homo sapiens GN=HBB PE=1 SV=2	HBB_HUMAN	16	1.259	0.038
Ig kappa chain V-III region HAH OS=Homo sapiens PE=2 SV=1	KV312_HUMAN (+1)	14	1.243	0.035
Ig lambda-2 chain C regions OS=Homo sapiens GN=IGLC2 PE=1 SV=1	LAC2_HUMAN	11	1.230	0.033
Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3	FIBG_HUMAN	52	1.209	0.031
Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	K1C9_HUMAN	62	1.188	0.033
Clusterin OS=Homo sapiens GN=CLU PE=1 SV=1	CLUS_HUMAN	52	1.175	0.032
Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2	FIBA_HUMAN	95	1.174	0.029
Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6	K1C10_HUMAN	59	1.160	0.026
Serum paraoxonase/arylesterase 1 OS=Homo sapiens GN=PON1 PE=1 SV=3	PON1_HUMAN	40	1.137	0.030
Thymosin beta-4 OS=Homo sapiens GN=TMSB4X PE=1 SV=2	TYB4_HUMAN	5	1.099	0.027
Alpha-1-antitrypsin OS=Homo sapiens GN=SERPINA1 PE=1 SV=3	A1AT_HUMAN	47	1.093	0.032
Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3	IGHM_HUMAN	49	1.025	0.026
Protein Z-dependent protease inhibitor OS=Homo sapiens GN=SERPINA10 PE=1 SV=1	ZPI_HUMAN	51	0.997	0.027
Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens GN=ITIH3 PE=1 SV=2	ITIH3_HUMAN	100	0.996	0.024
Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3	ITIH1_HUMAN	101	0.995	0.030
Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1	ACTB_HUMAN	42	0.967	0.024
Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1	PROS_HUMAN	75	0.958	0.021
C-reactive protein OS=Homo sapiens GN=CRP PE=1 SV=1	CRP_HUMAN	25	0.940	0.025
Apolipoprotein D OS=Homo sapiens GN=APOD PE=1 SV=1	APOD_HUMAN	21	0.931	0.028
Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2 PE=1 SV=2	K22E_HUMAN	65	0.928	0.023
Serum amyloid A-1 protein OS=Homo sapiens GN=SAA1 PE=1 SV=1	SAA1_HUMAN	14	0.921	0.024
Apolipoprotein B-100 OS=Homo sapiens GN=APOB PE=1 SV=2	APOB_HUMAN	516	0.860	0.023
C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2	C4BPA_HUMAN	67	0.832	0.025
Hyaluronan-binding protein 2 OS=Homo sapiens GN=HABP2 PE=1 SV=1	HABP2_HUMAN	63	0.807	0.022
Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1	GELS_HUMAN	86	0.800	0.020
Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1	IGHG1_HUMAN	36	0.798	0.019
Ig kappa chain V-IV region (Fragment) OS=Homo sapiens GN=IGKV4-1 PE=4 SV=1	KV401_HUMAN (+1)	13	0.776	0.019
Serum amyloid A-4 protein OS=Homo sapiens GN=SAA4 PE=1 SV=2	SAA4_HUMAN	15	0.759	0.019
Vitamin K-dependent protein Z OS=Homo sapiens GN=PROZ PE=1 SV=2	PROZ_HUMAN	45	0.748	0.018
Hemoglobin subunit alpha OS=Homo sapiens GN=HBA1 PE=1 SV=2	HBA_HUMAN	15	0.745	0.019
Collectin-10 OS=Homo sapiens GN=COLEC10 PE=2 SV=2	COL10_HUMAN	31	0.737	0.020
Ig lambda chain V-1 region WAH OS=Homo sapiens PE=1 SV=1	LV106_HUMAN	12	0.709	0.018
Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2	KNG1_HUMAN	72	0.689	0.019
Lumican OS=Homo sapiens GN=LUM PE=1 SV=2	LUM_HUMAN	38	0.679	0.017
Complement C1q subcomponent subunit C OS=Homo sapiens GN=C1QC PE=1 SV=3	C1QC_HUMAN	26	0.674	0.018
Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3	CO8G_HUMAN	22	0.673	0.018
Beta-Ala-His dipeptidase OS=Homo sapiens GN=CNDP1 PE=1 SV=4	CNDP1_HUMAN	57	0.672	0.016
Collectin-11 OS=Homo sapiens GN=COLEC11 PE=1 SV=1	COL11_HUMAN	29	0.668	0.016
Coagulation factor IX OS=Homo sapiens GN=F9 PE=1 SV=2	FA9_HUMAN	52	0.661	0.017
Complement component C9 OS=Homo sapiens GN=C9 PE=1 SV=2	CO9_HUMAN	63	0.648	0.017
Apolipoprotein M OS=Homo sapiens GN=APOM PE=1 SV=2	APOM_HUMAN	21	0.616	0.016
C4b-binding protein beta chain OS=Homo sapiens GN=C4BPB PE=1 SV=1	C4BPB_HUMAN	28	0.611	0.016
Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3	A2MG_HUMAN	163	0.573	0.015
Vitamin K-dependent protein C OS=Homo sapiens GN=PROC PE=1 SV=1	PROC_HUMAN	52	0.571	0.014
Dermcidin OS=Homo sapiens GN=DCD PE=1 SV=2	DCD_HUMAN	11	0.565	0.015
Haptoglobin-related protein OS=Homo sapiens GN=HPR PE=1 SV=2	HPTR_HUMAN	39	0.555	0.014
Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3	CO8B_HUMAN	67	0.551	0.015
Complement C1s subcomponent OS=Homo sapiens GN=C1S PE=1 SV=1	C1S_HUMAN	77	0.546	0.014
Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2	IC1_HUMAN	55	0.544	0.015
Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3	HEP2_HUMAN	57	0.531	0.014
Complement C1q subcomponent subunit B OS=Homo sapiens GN=C1QB PE=1 SV=3	C1QB_HUMAN	27	0.526	0.015
Histidine-rich glycoprotein OS=Homo sapiens GN=HRG PE=1 SV=1	HRG_HUMAN	60	0.519	0.013
Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4	CO5_HUMAN	188	0.506	0.014
Ig heavy chain V-III region BUT OS=Homo sapiens PE=1 SV=1	HV306_HUMAN	12	0.505	0.015
Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3	TRFE_HUMAN	77	0.495	0.012
Apolipoprotein C-IV OS=Homo sapiens GN=APOC4 PE=1 SV=1	APOC4_HUMAN	15	0.487	0.014
Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2	IGHA1_HUMAN	38	0.486	0.014
Immunoglobulin J chain OS=Homo sapiens GN=IGJ PE=1 SV=4	IGJ_HUMAN	18	0.481	0.013
Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4	CFAH_HUMAN	139	0.480	0.012
Tubulin alpha-4A chain OS=Homo sapiens GN=TUBA4A PE=1 SV=1	TBA4A_HUMAN	50	0.477	0.012
Angiotensin-related protein 6 OS=Homo sapiens GN=ANGPTL6 PE=1 SV=1	ANGL6_HUMAN	52	0.476	0.012

Haptoglobin OS=Homo sapiens GN=HP PE=1 SV=1	HPT_HUMAN	45	0.402	0.011
Extracellular superoxide dismutase [Cu-Zn] OS=Homo sapiens GN=SOD3 PE=1 SV=2	SODE_HUMAN	26	0.396	0.011
Pigment epithelium-derived factor OS=Homo sapiens GN=SERPINF1 PE=1 SV=4	PEDF_HUMAN	46	0.396	0.010
Apolipoprotein A-V OS=Homo sapiens GN=APOA5 PE=1 SV=1	APOA5_HUMAN	41	0.390	0.009
Ceruloplasmin OS=Homo sapiens GN=CP PE=1 SV=1	CERU_HUMAN	122	0.388	0.010
Alpha-1-antichymotrypsin OS=Homo sapiens GN=SERPINA3 PE=1 SV=2	AACT_HUMAN	48	0.387	0.009
Secreted phosphoprotein 24 OS=Homo sapiens GN=SPP2 PE=1 SV=1	SPP24_HUMAN	24	0.385	0.009
Tubulin beta chain OS=Homo sapiens GN=TUBB PE=1 SV=2	TBB5_HUMAN	50	0.378	0.010
Apolipoprotein F OS=Homo sapiens GN=APOF PE=1 SV=2	APOF_HUMAN	35	0.369	0.010
Coagulation factor X OS=Homo sapiens GN=F10 PE=1 SV=2	FA10_HUMAN	55	0.357	0.009
Ig heavy chain V-III region TRO OS=Homo sapiens PE=1 SV=1	HV301_HUMAN	13	0.357	0.008
Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2	CFAB_HUMAN	86	0.332	0.008
Immunoglobulin lambda-like polypeptide 5 OS=Homo sapiens GN=IGLL5 PE=2 SV=2	IGLL5_HUMAN	23	0.313	0.008
Cartilage oligomeric matrix protein OS=Homo sapiens GN=COMP PE=1 SV=2	COMP_HUMAN	83	0.305	0.008
Keratin, type I cytoskeletal 14 OS=Homo sapiens GN=KRT14 PE=1 SV=4	K1C14_HUMAN	52	0.296	0.007
Lipopolysaccharide-binding protein OS=Homo sapiens GN=LBP PE=1 SV=3	LBP_HUMAN	53	0.288	0.007
Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2	C1R_HUMAN	80	0.286	0.007
Serum amyloid A-2 protein OS=Homo sapiens GN=SAA2 PE=1 SV=1	SAA2_HUMAN	14	0.281	0.008
Keratin, type II cytoskeletal 5 OS=Homo sapiens GN=KRT5 PE=1 SV=3	K2C5_HUMAN	62	0.264	0.006
Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=1	FINC_HUMAN	263	0.261	0.006
Glucosidase 2 subunit beta OS=Homo sapiens GN=PRKCSH PE=1 SV=2	GLU2B_HUMAN	59	0.258	0.007
Keratin, type II cuticular Hb3 OS=Homo sapiens GN=KRT83 PE=1 SV=2	KRT83_HUMAN	54	0.252	0.007
Myosin light polypeptide 6 OS=Homo sapiens GN=MYL6 PE=1 SV=2	MYL6_HUMAN	17	0.243	0.007
Selenoprotein P OS=Homo sapiens GN=SEPP1 PE=1 SV=3	SEPP1_HUMAN	43	0.234	0.007
Tubulin beta-1 chain OS=Homo sapiens GN=TUBB1 PE=1 SV=1	TBB1_HUMAN	50	0.233	0.006
Complement C1q subcomponent subunit A OS=Homo sapiens GN=C1QA PE=1 SV=2	C1QA_HUMAN	26	0.233	0.006
N-acetylmuramoyl-L-alanine amidase OS=Homo sapiens GN=PGLYRP2 PE=1 SV=1	PGRP2_HUMAN	62	0.224	0.005
Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2	CFAL_HUMAN	66	0.221	0.006
Coagulation factor VII OS=Homo sapiens GN=F7 PE=1 SV=1	FA7_HUMAN	52	0.212	0.006
Phosphatidylcholine-sterol acyltransferase OS=Homo sapiens GN=LCAT PE=1 SV=1	LCAT_HUMAN	50	0.210	0.005
Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4	ITIH4_HUMAN	103	0.209	0.006
Ig gamma-3 chain C region OS=Homo sapiens GN=IGHG3 PE=1 SV=2	IGHG3_HUMAN	41	0.204	0.006
Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1	LG3BP_HUMAN	65	0.200	0.005
Dickkopf-related protein 3 OS=Homo sapiens GN=DKK3 PE=1 SV=2	DKK3_HUMAN	38	0.195	0.005
Integrin alpha-11b OS=Homo sapiens GN=ITGA2B PE=1 SV=3	ITA2B_HUMAN	113	0.191	0.005
Ig kappa chain V-III region POM OS=Homo sapiens PE=1 SV=1	KV306_HUMAN	12	0.190	0.005
Ig lambda chain V-III region LOI OS=Homo sapiens PE=1 SV=1	LV302_HUMAN	12	0.187	0.005
Protein AMBP OS=Homo sapiens GN=AMBP PE=1 SV=1	AMBP_HUMAN	39	0.179	0.004
Mannan-binding lectin serine protease 1 OS=Homo sapiens GN=MASP1 PE=1 SV=3	MASP1_HUMAN	79	0.178	0.005
Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3	A2AP_HUMAN	55	0.178	0.005
Matrix Gla protein OS=Homo sapiens GN=MGP PE=1 SV=2	MGP_HUMAN	12	0.177	0.005
Alpha-2-HS-glycoprotein OS=Homo sapiens GN=AHSG PE=1 SV=1	FETUA_HUMAN	39	0.177	0.004
Thrombospondin-4 OS=Homo sapiens GN=THBS4 PE=1 SV=2	TSP4_HUMAN	106	0.176	0.005
Kallistatin OS=Homo sapiens GN=SERPINA4 PE=1 SV=3	KAIN_HUMAN	49	0.173	0.004
Ig heavy chain V-III region WEA OS=Homo sapiens PE=1 SV=1	HV302_HUMAN	12	0.171	0.005
Ig kappa chain V-I region AG OS=Homo sapiens PE=1 SV=1	KV101_HUMAN	12	0.168	0.005
Calreticulin OS=Homo sapiens GN=CALR PE=1 SV=1	CALR_HUMAN	48	0.160	0.004
Ig kappa chain V-III region VG (Fragment) OS=Homo sapiens PE=1 SV=1	KV309_HUMAN	13	0.151	0.004
Integrin beta-3 OS=Homo sapiens GN=ITGB3 PE=1 SV=2	ITB3_HUMAN	87	0.151	0.004
Mannose-binding protein C OS=Homo sapiens GN=MBL2 PE=1 SV=2	MBL2_HUMAN	26	0.149	0.005
Microtubule-associated protein RP/EB family member 2 OS=Homo sapiens GN=MAPRE2 PE=1 SV=1	MARE2_HUMAN	37	0.149	0.004
Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2	PLMN_HUMAN	91	0.147	0.004
Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3	CO6_HUMAN	105	0.143	0.004
Filamin-A OS=Homo sapiens GN=FLNA PE=1 SV=4	FLNA_HUMAN	281	0.141	0.004
Profilin-1 OS=Homo sapiens GN=PFN1 PE=1 SV=2	PROF1_HUMAN	15	0.140	0.003
Tropomyosin alpha-3 chain OS=Homo sapiens GN=TPM3 PE=1 SV=1	TPM3_HUMAN	33	0.139	0.004
Bone marrow proteoglycan OS=Homo sapiens GN=PRG2 PE=1 SV=2	PRG2_HUMAN	25	0.137	0.003
Talin-1 OS=Homo sapiens GN=TLN1 PE=1 SV=3	TLN1_HUMAN	270	0.137	0.003
Keratin, type I cytoskeletal 16 OS=Homo sapiens GN=KRT16 PE=1 SV=4	K1C16_HUMAN	51	0.136	0.004
Carboxypeptidase N subunit 2 OS=Homo sapiens GN=CPN2 PE=1 SV=3	CPN2_HUMAN	61	0.132	0.004
von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4	VWF_HUMAN	309	0.132	0.003
Keratin, type I cuticular Ha1 OS=Homo sapiens GN=KRT31 PE=2 SV=3	K1H1_HUMAN	47	0.121	0.003
Peptidyl-prolyl cis-trans isomerase A OS=Homo sapiens GN=PPIA PE=1 SV=2	PPIA_HUMAN	18	0.118	0.003
Ig gamma-2 chain C region OS=Homo sapiens GN=IGHG2 PE=1 SV=2	IGHG2_HUMAN	36	0.115	0.003
Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1	ANT3_HUMAN	53	0.111	0.003
Procollagen C-endopeptidase enhancer 1 OS=Homo sapiens GN=PCOLCE PE=1 SV=2	PCOC1_HUMAN	48	0.108	0.003
Erythrocyte band 7 integral membrane protein OS=Homo sapiens GN=STOM PE=1 SV=3	STOM_HUMAN	32	0.106	0.003
14-3-3 protein zeta/delta OS=Homo sapiens GN=YWHAZ PE=1 SV=1	1433Z_HUMAN	28	0.106	0.003
Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2	CO7_HUMAN	94	0.105	0.003
Myosin-9 OS=Homo sapiens GN=MYH9 PE=1 SV=4	MYH9_HUMAN	227	0.103	0.003
Transforming growth factor-beta-induced protein ig-h3 OS=Homo sapiens GN=TGFBI PE=1 SV=1	BGH3_HUMAN	75	0.098	0.002
Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2	HEMO_HUMAN	52	0.098	0.003
Keratin, type II cytoskeletal 6C OS=Homo sapiens GN=KRT6C PE=1 SV=3	K2C6C_HUMAN	60	0.097	0.002
Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1	VTDB_HUMAN	53	0.094	0.003
Retinol-binding protein 4 OS=Homo sapiens GN=RBP4 PE=1 SV=3	RET4_HUMAN	23	0.094	0.002
Alpha-1-acid glycoprotein 2 OS=Homo sapiens GN=ORM2 PE=1 SV=2	A1AG2_HUMAN	24	0.089	0.003
HLA class I histocompatibility antigen, B-15 alpha chain OS=Homo sapiens GN=HLA-B PE=1 SV=2	1B15_HUMAN (+6)	40	0.087	0.002
Ig kappa chain V-I region WEA OS=Homo sapiens PE=1 SV=1	KV118_HUMAN	12	0.085	0.002
Nidogen-1 OS=Homo sapiens GN=NID1 PE=1 SV=3	NID1_HUMAN	136	0.085	0.002
Apolipoprotein(a) OS=Homo sapiens GN=LPA PE=1 SV=1	APOA_HUMAN	501	0.082	0.002
Platelet glycoprotein Ib alpha chain OS=Homo sapiens GN=GP1BA PE=1 SV=1	GP1BA_HUMAN	69	0.076	0.002
Lysozyme C OS=Homo sapiens GN=LYZ PE=1 SV=1	LYSC_HUMAN	17	0.069	0.002
Oncoprotein-induced transcript 3 protein OS=Homo sapiens GN=OIT3 PE=1 SV=2	OIT3_HUMAN	60	0.067	0.002
Ficolin-3 OS=Homo sapiens GN=FCN3 PE=1 SV=2	FCN3_HUMAN	33	0.066	0.002
Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH PE=1 SV=3	G3P_HUMAN	36	0.058	0.002
Pleckstrin OS=Homo sapiens GN=PLEK PE=1 SV=3	PLEK_HUMAN	40	0.058	0.001
Hornetin OS=Homo sapiens GN=HRNR PE=1 SV=2	HORN_HUMAN	282	0.054	0.001
Protein convertase subtilisin/kexin type 9 OS=Homo sapiens GN=PCSK9 PE=1 SV=3	PCSK9_HUMAN	74	0.053	0.002
Monocyte differentiation antigen CD14 OS=Homo sapiens GN=CD14 PE=1 SV=2	CD14_HUMAN	40	0.051	0.001
Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4	FA5_HUMAN	252	0.050	0.001

Actin, alpha cardiac muscle 1 OS=Homo sapiens GN=ACTC1 PE=1 SV=1	ACTC_HUMAN (+1)	42	0.047	0.001
Osteomodulin OS=Homo sapiens GN=OMD PE=1 SV=1	OMD_HUMAN	49	0.046	0.001
Integrin-linked protein kinase OS=Homo sapiens GN=ILK PE=1 SV=2	ILK_HUMAN	51	0.044	0.001
Serum amyloid P-component OS=Homo sapiens GN=APCS PE=1 SV=2	SAMP_HUMAN	25	0.043	0.001
Tubulin alpha-1B chain OS=Homo sapiens GN=TUBA1B PE=1 SV=1	TBA1B_HUMAN (+1)	50	0.042	0.001
Keratin, type II cuticular Hb2 OS=Homo sapiens GN=KRT82 PE=1 SV=3	KRT82_HUMAN	57	0.037	0.001
Neuropilin-1 OS=Homo sapiens GN=NRP1 PE=1 SV=3	NRP1_HUMAN	103	0.032	0.001
Protein disulfide-isomerase A4 OS=Homo sapiens GN=PDIA4 PE=1 SV=2	PDIA4_HUMAN	73	0.031	0.001
CD5 antigen-like OS=Homo sapiens GN=CDSL PE=1 SV=1	CD5L_HUMAN	38	0.031	0.001
Tropomyosin alpha-1 chain OS=Homo sapiens GN=TPM1 PE=1 SV=2	TPM1_HUMAN	33	0.030	0.001
Vinculin OS=Homo sapiens GN=VCL PE=1 SV=4	VINC_HUMAN	124	0.027	0.001
Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4	FBLN1_HUMAN	77	0.027	0.001
CD44 antigen OS=Homo sapiens GN=CD44 PE=1 SV=3	CD44_HUMAN	82	0.026	0.001
Neural cell adhesion molecule 1 OS=Homo sapiens GN=NCAM1 PE=1 SV=3	NCAM1_HUMAN	95	0.023	0.001
Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=4	A1BG_HUMAN	54	0.020	0.000
Cholesteryl ester transfer protein OS=Homo sapiens GN=CETP PE=1 SV=2	CETP_HUMAN	55	0.020	0.001
Basement membrane-specific heparan sulfate proteoglycan core protein OS=Homo sapiens GN=HSPG2 PE=1 SV=4	PGBM_HUMAN	469	0.019	0.000
Tenascin-X OS=Homo sapiens GN=TNXB PE=1 SV=3	TENX_HUMAN	464	0.015	0.000
78 glucose-regulated protein OS=Homo sapiens GN=HSPA5 PE=1 SV=2	GRP78_HUMAN	72	0.015	0.000
Mannan-binding lectin serine protease 2 OS=Homo sapiens GN=MASP2 PE=1 SV=4	MASP2_HUMAN	76	0.014	0.000
Fermitin family homolog 3 OS=Homo sapiens GN=FERMT3 PE=1 SV=1	URP2_HUMAN	76	0.014	0.000
Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1 OS=Homo sapiens GN=SVEP1 PE=1 SV=3	SVEP1_HUMAN	390	0.006	0.000
Versican core protein OS=Homo sapiens GN=VCAN PE=1 SV=3	CSPG2_HUMAN	373	0.005	0.000