

Supplementary Data

Figure S1: Binding of the 5-10-5 MOE PS PTEN ASO to the 25 most abundant human plasma proteins. Binding of serum albumin was included in each panel as a reference.

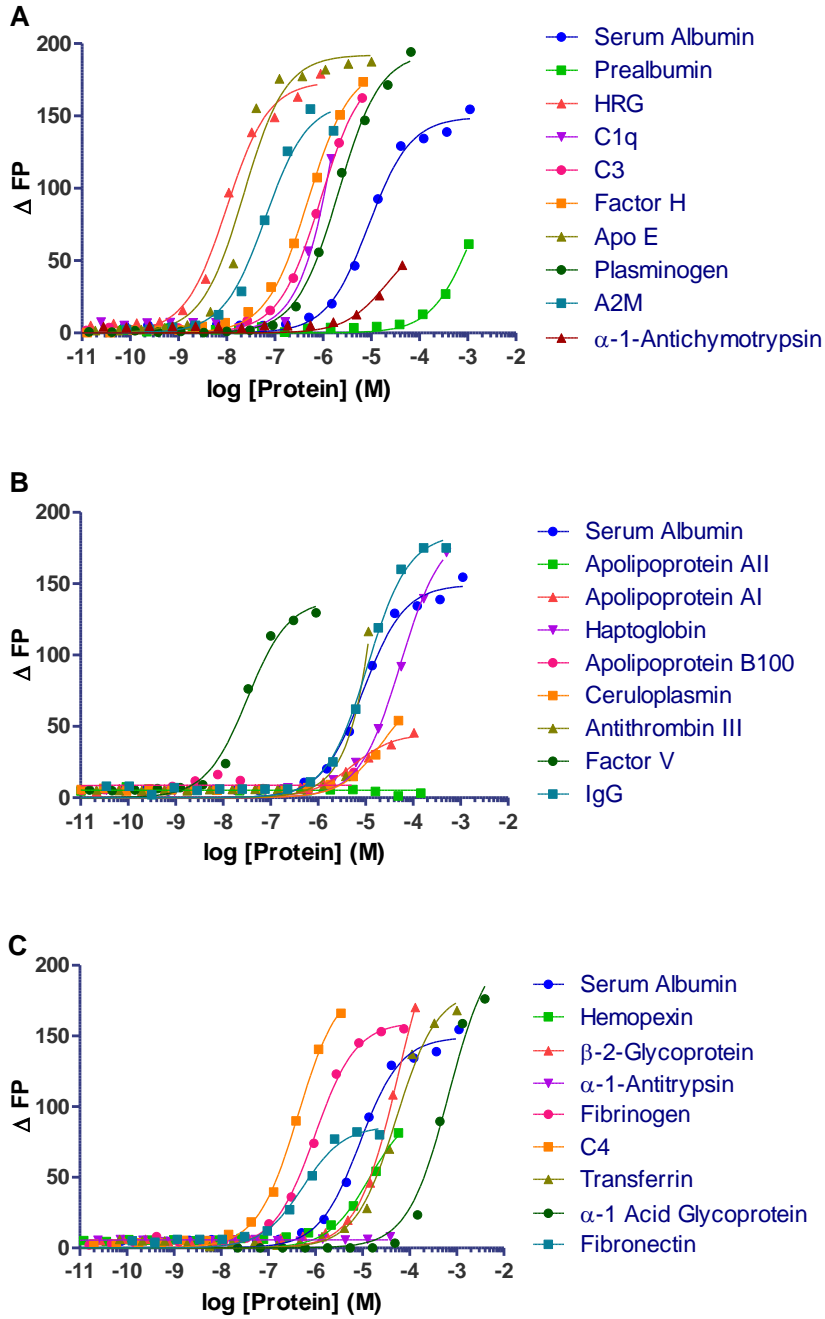


Figure S2: SEC binding profile of SRB MOE gapmer ASO to plasma from HRG  $-/-$  mice and wild type controls.

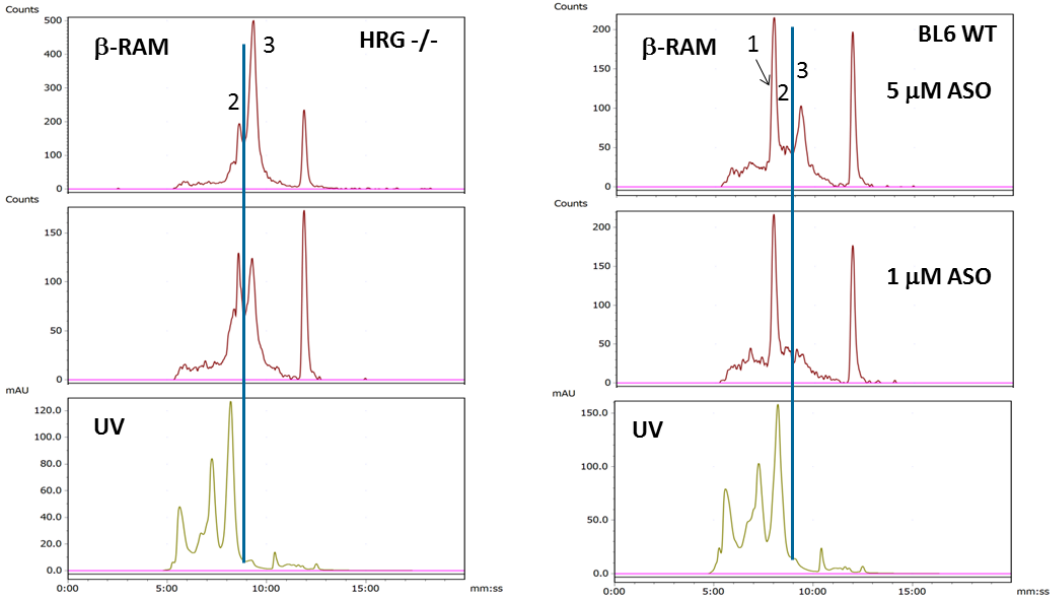


Table S1: Full list of identified plasma proteins binding to different ASO designs. Number of identified peptides listed for each protein and tested ASO design.

Identified Proteins (243)	Accession Number	MW kDa	MOE PS	MOE MBB	DNA PS	cEt PS
Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2	sp P02768 ALBU_HUMAN	69	1691	900	2472	1811
Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2	sp P01024 CO3_HUMAN	187	1470	951	1731	950
Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4	sp P02751 FINC_HUMAN	263	513	395	791	527
Complement C4-B OS=Homo sapiens GN=C4B PE=1 SV=2	sp P0C0L5 CO4B_HUMAN	193	439	420	771	450
Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4	sp P01031 CO5_HUMAN	188	403	289	741	299
Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2	sp P00751 CFAB_HUMAN	86	401	410	545	337
Apolipoprotein B-100 OS=Homo sapiens GN=APOB PE=1 SV=2	sp P04114 APOB_HUMAN	516	391	252	1433	68
Alpha-1-antichymotrypsin OS=Homo sapiens GN=SERPINA3 PE=1 SV=2	sp P01011 AACT_HUMAN	48	356	457	362	322
Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4	sp P08603 CFAH_HUMAN	139	289	234	529	211
Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2	sp P00747 PLMN_HUMAN	91	261	245	389	195
Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	sp P35527 K1C9_HUMAN	62	255	302	196	331
Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3	sp P01023 A2MG_HUMAN	163	252	151	208	181
Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2	sp P0C0L4 CO4A_HUMAN	193	213	56	593	255
Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1	sp P03952 KLKB1_HUMAN	71	168	212	242	156
von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4	sp P04275 VWF_HUMAN	309	120	42	61	12
Desmoplakin OS=Homo sapiens GN=DSP PE=1 SV=3	sp P15924 DESP_HUMAN	332	113	114	38	143
Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3	sp P01871 IGHM_HUMAN	49	113	96	207	81
Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1	sp P01857 IGHG1_HUMAN	36	112	84	232	127
Ig gamma-3 chain C region OS=Homo sapiens GN=IGHG3 PE=1 SV=2	sp P01860 IGHG3_HUMAN	41	110	89	241	91
Ig gamma-2 chain C region OS=Homo sapiens GN=IGHG2 PE=1 SV=2	sp P01859 IGHG2_HUMAN	36	109	81	222	115
Alpha-1-antitrypsin OS=Homo sapiens GN=SERPINA1 PE=1 SV=3	sp P01009 A1AT_HUMAN	47	100	54	175	146
Complement C2 OS=Homo sapiens GN=C2 PE=1 SV=2	sp P06681 CO2_HUMAN	83	96	134	139	133
Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2	sp P01042 KNG1_HUMAN	72	93	118	92	174
Kallistatin OS=Homo sapiens GN=SERPINA4 PE=1 SV=3	sp P29622 KAIN_HUMAN	49	86	61	79	51
Histidine-rich glycoprotein OS=Homo sapiens GN=HRG PE=1 SV=1	sp P04196 HRG_HUMAN	60	79	19	36	22
Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1	sp P02647 APOA1_HUMAN	31	76	34	199	63
Keratinocyte proline-rich protein OS=Homo sapiens GN=KPRP PE=1 SV=1	sp Q5T749 KPRP_HUMAN	64	73	45	28	71
Junction plakoglobin OS=Homo sapiens GN=JUP PE=1 SV=3	sp P14923 PLAK_HUMAN	82	73	56	21	59
Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2	sp P00734 THRB_HUMAN	70	64	64	105	94
Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3	sp P07358 CO8B_HUMAN	67	61	19	68	5
Pregnancy zone protein OS=Homo sapiens GN=PZP PE=1 SV=4	sp P20742 PZP_HUMAN	164	58	47	11	42
Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2	sp Q16610 ECM1_HUMAN	61	56	55	41	32
Plasma serine protease inhibitor OS=Homo sapiens GN=SERPINA5 PE=1 SV=3	sp P05154 IPSP_HUMAN	46	55	116	64	72

Pigment epithelium-derived factor OS=Homo sapiens GN=SERPINF1 PE=1 SV=4	sp P36955 PEDF_HUMAN	46	53	75	114	64
Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2	sp P01876 IGHA1_HUMAN	38	53	50	102	71
Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2	sp P07357 CO8A_HUMAN	65	53	46	96	47
Coagulation factor XII OS=Homo sapiens GN=F12 PE=1 SV=3	sp P00748 FA12_HUMAN	68	50	92	89	70
Insulin-like growth factor-binding protein complex acid labile subunit OS=Homo sapiens GN=IGFALS PE=1 SV=1	sp P35858 ALS_HUMAN	66	49	36	79	44
Ig kappa chain C region OS=Homo sapiens GN=IGKC PE=1 SV=1	sp P01834 IGKC_HUMAN	12	48	37	109	40
Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4	sp Q14624 ITIH4_HUMAN	103	44	160	213	189
Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2	sp P05155 IC1_HUMAN	55	44	141	110	166
Complement C1q subcomponent subunit B OS=Homo sapiens GN=C1QB PE=1 SV=3	sp P02746 C1QB_HUMAN	27	43	19	44	13
Complement C1q subcomponent subunit C OS=Homo sapiens GN=C1QC PE=1 SV=3	sp P02747 C1QC_HUMAN	26	42	23	36	13
Carboxypeptidase B2 OS=Homo sapiens GN=CPB2 PE=1 SV=2	sp Q961Y4 CPB2_HUMAN	48	40	45	58	16
Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2	sp P19823 ITIH2_HUMAN	106	39	144	224	290
Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2	sp P02671 FIBA_HUMAN	95	38	170	449	620
C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2	sp P04003 C4BPA_HUMAN	67	36	92	191	89
Hornerin OS=Homo sapiens GN=HRNR PE=1 SV=2	sp Q86Y23 HORN_HUMAN	282	35	69	19	69
Filaggrin-2 OS=Homo sapiens GN=FLG2 PE=1 SV=1	sp Q5D862 FILA2_HUMAN	248	34	28	13	26
Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3	sp P02787 TRFE_HUMAN	77	32	22	61	94
Immunoglobulin lambda-like polypeptide 5 OS=Homo sapiens GN=IGLL5 PE=2 SV=2	sp B9A064 IGLL5_HUMAN	23	32	31	57	37
Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3	sp P19827 ITIH1_HUMAN	101	29	51	111	184
Coagulation factor XI OS=Homo sapiens GN=F11 PE=1 SV=1	sp P03951 FA11_HUMAN	70	29	8	29	13
Haptoglobin OS=Homo sapiens GN=HP PE=1 SV=1	sp P00738 HPT_HUMAN	45	28	32	48	39
Beta-2-glycoprotein 1 OS=Homo sapiens GN=APOH PE=1 SV=3	sp P02749 APOH_HUMAN	38	27	89	210	165
Protein S100-A8 OS=Homo sapiens GN=S100A8 PE=1 SV=1	sp P05109 S100A8_HUMAN	11	26	40	11	22
Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3	sp P07360 CO8G_HUMAN	22	26	15	39	19
Skin-specific protein 32 OS=Homo sapiens GN=XP32 PE=1 SV=1	sp Q5T750 XP32_HUMAN	26	26	16	9	25
Sulfhydryl oxidase 1 OS=Homo sapiens GN=QSOX1 PE=1 SV=3	sp O00391 QSOX1_HUMAN	83	26	12	12	5
Complement component C9 OS=Homo sapiens GN=C9 PE=1 SV=2	sp P02748 CO9_HUMAN	63	25	95	161	137
Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2	sp P02790 HEMO_HUMAN	52	25	2	101	67
Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1	sp P04004 VTNC_HUMAN	54	24	57	76	62
Desmoglein-1 OS=Homo sapiens GN=DSG1 PE=1 SV=2	sp Q02413 DSG1_HUMAN	114	23	29	5	27
Alpha-1-acid glycoprotein 1 OS=Homo sapiens GN=ORM1 PE=1 SV=1	sp P02763 A1AG1_HUMAN	24	23	8	37	25
Immunoglobulin heavy variable 3-7 OS=Homo sapiens GN=IGHV3-7 PE=1 SV=2	sp P01780 HV307_HUMAN	13	22	19	38	15
Afamin OS=Homo sapiens GN=AFM PE=1 SV=1	sp P43652 AFAM_HUMAN	69	22	0	37	28
Ig lambda-2 chain C regions OS=Homo sapiens GN=IGLC2 PE=1 SV=1	sp P0CG05 LAC2_HUMAN	11	22	17	64	29
Protein S100-A9 OS=Homo sapiens GN=S100A9 PE=1 SV=1	sp P06702 S100A9_HUMAN	13	21	38	12	22

N-acetylmuramoyl-L-alanine amidase OS=Homo sapiens GN=PGLYRP2 PE=1 SV=1	sp Q96PD5 PGRP2_HUMAN	62	20	33	53	37
Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2	sp P26927 HGFL_HUMAN	80	20	20	6	2
Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1	sp P02649 APOE_HUMAN	36	19	26	54	16
Lysozyme C OS=Homo sapiens GN=LYZ PE=1 SV=1	sp P61626 LYSC_HUMAN	17	19	27	11	11
Carboxypeptidase N subunit 2 OS=Homo sapiens GN=CPN2 PE=1 SV=3	sp P22792 CPN2_HUMAN	61	19	30	23	32
Cornifin-A OS=Homo sapiens GN=SPRR1A PE=1 SV=2	sp P35321 SPR1A_HUMAN	10	18	13	11	11
Proteoglycan 4 OS=Homo sapiens GN=PRG4 PE=1 SV=2	sp Q92954 PRG4_HUMAN	151	17	19	26	15
Insulin-like growth factor-binding protein 3 OS=Homo sapiens GN=IGFBP3 PE=1 SV=2	sp P17936 IBP3_HUMAN	32	17	38	10	10
Protein-glutamine gamma-glutamyltransferase K OS=Homo sapiens GN=TGM1 PE=1 SV=4	sp P22735 TGM1_HUMAN	90	17	7	2	12
Alpha-1-acid glycoprotein 2 OS=Homo sapiens GN=ORM2 PE=1 SV=2	sp P19652 A1AG2_HUMAN	24	17	14	9	16
Dermcidin OS=Homo sapiens GN=DCD PE=1 SV=2	sp P81605 DCD_HUMAN	11	16	8	4	9
Complement factor H-related protein 1 OS=Homo sapiens GN=CFHR1 PE=1 SV=2	sp Q03591 FHR1_HUMAN	38	15	31	19	18
Protein AMBP OS=Homo sapiens GN=AMBP PE=1 SV=1	sp P02760 AMBP_HUMAN	39	14	62	47	97
CD5 antigen-like OS=Homo sapiens GN=CD5L PE=1 SV=1	sp O43866 CD5L_HUMAN	38	14	25	26	17
Carboxypeptidase N catalytic chain OS=Homo sapiens GN=CPN1 PE=1 SV=1	sp P15169 CBPN_HUMAN	52	14	9	24	13
Complement factor D OS=Homo sapiens GN=CFD PE=1 SV=5	sp P00746 CFAD_HUMAN	27	13	5	10	4
Loricrin OS=Homo sapiens GN=LOR PE=1 SV=2	sp P23490 LORI_HUMAN	26	13	7	2	3
Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1	sp P01008 ANT3_HUMAN	53	12	10	49	40
Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH PE=1 SV=3	sp P04406 G3P_HUMAN	36	12	24	7	16
Apolipoprotein D OS=Homo sapiens GN=APOD PE=1 SV=1	sp P05090 APOD_HUMAN	21	12	9	17	17
Ficolin-2 OS=Homo sapiens GN=FCN2 PE=1 SV=2	sp Q15485 FCN2_HUMAN	34	12	14	11	6
Complement factor H-related protein 2 OS=Homo sapiens GN=CFHR2 PE=1 SV=1	sp P36980 FHR2_HUMAN	31	12	12	9	18
Haptoglobin-related protein OS=Homo sapiens GN=HPR PE=2 SV=2	sp P00739 HPTR_HUMAN	39	12	11	21	13
Tetranectin OS=Homo sapiens GN=CLEC3B PE=1 SV=3	sp P05452 TETN_HUMAN	23	11	10	14	18
Complement C1q subcomponent subunit A OS=Homo sapiens GN=C1QA PE=1 SV=2	sp P02745 C1QA_HUMAN	26	11	5	11	3
Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1	sp P06396 GELS_HUMAN	86	10	127	255	135
Clusterin OS=Homo sapiens GN=CLU PE=1 SV=1	sp P10909 CLUS_HUMAN	52	10	15	32	33
Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1	sp P60709 ACTB_HUMAN (+1)	42	10	31	15	23
Ceruloplasmin OS=Homo sapiens GN=CP PE=1 SV=1	sp P00450 CERU_HUMAN	122	10	5	9	43
Immunoglobulin heavy variable 3-33 OS=Homo sapiens GN=IGHV3-33 PE=1 SV=2	sp P01772 HV333_HUMAN	13	10	15	23	9
Platelet basic protein OS=Homo sapiens GN=PPBP PE=1 SV=3	sp P02775 CXCL7_HUMAN	14	10	11	8	9
Ficolin-3 OS=Homo sapiens GN=FCN3 PE=1 SV=2	sp O75636 FCN3_HUMAN	33	10	3	0	3
Filaggrin OS=Homo sapiens GN=FLG PE=1 SV=3	sp P20930 FILA_HUMAN	435	9	22	2	15
Plakophilin-1 OS=Homo sapiens GN=PKP1 PE=1 SV=2	sp Q13835 PKP1_HUMAN	83	9	9	2	15
Caspase-14 OS=Homo sapiens GN=CASP14 PE=1 SV=2	sp P31944 CASPE_HUMAN	28	9	13	3	10
Immunoglobulin J chain OS=Homo sapiens GN=JCHAIN PE=1 SV=4	sp P01591 IGJ_HUMAN	18	9	6	18	6
Immunoglobulin kappa variable 4-1 OS=Homo sapiens GN=IGKV4-1 PE=1 SV=1	sp P06312 KV401_HUMAN	13	9	4	5	2

Arachidonate 12-lipoxygenase, 12R-type OS=Homo sapiens GN=ALOX12B PE=1 SV=1	sp O75342 LX12B_HUMAN	80	9	6	0	7
Serum amyloid P-component OS=Homo sapiens GN=APCS PE=1 SV=2	sp P02743 SAMP_HUMAN	25	8	34	67	55
Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1	sp P07225 PROS_HUMAN	75	8	40	36	63
Apolipoprotein(a) OS=Homo sapiens GN=LPA PE=1 SV=1	sp P08519 APOA_HUMAN	501	8	15	45	6
Annexin A2 OS=Homo sapiens GN=ANXA2 PE=1 SV=2	sp P07355 ANXA2_HUMAN	39	8	7	6	13
Small proline-rich protein 2E OS=Homo sapiens GN=SPRR2E PE=2 SV=2	sp P22531 SPR2E_HUMAN	8	8	6	5	4
Apolipoprotein A-II OS=Homo sapiens GN=APOA2 PE=1 SV=1	sp P02652 APOA2_HUMAN	11	8	2	8	0
Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2	sp P05156 CFAI_HUMAN	66	7	43	96	117
Immunoglobulin kappa variable 3-20 OS=Homo sapiens GN=IGKV3-20 PE=1 SV=2	sp P01619 KV320_HUMAN	13	7	9	17	6
Peroxiredoxin-1 OS=Homo sapiens GN=PRDX1 PE=1 SV=1	sp Q06830 PRDX1_HUMAN	22	7	9	4	6
Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=4	sp P04217 A1BG_HUMAN	54	7	4	7	9
Ig lambda-7 chain C region OS=Homo sapiens GN=IGLC7 PE=4 SV=2	sp A0M8Q6 LAC7_HUMAN	11	7	0	11	7
Hepatocyte growth factor activator OS=Homo sapiens GN=HGFA PE=1 SV=1	sp Q04756 HGFA_HUMAN	71	6	43	13	27
Properdin OS=Homo sapiens GN=CFP PE=1 SV=2	sp P27918 PROP_HUMAN	51	6	18	6	4
Protein Z-dependent protease inhibitor OS=Homo sapiens GN=SERPINA10 PE=1 SV=1	sp Q9UK55 ZPI_HUMAN	51	6	14	11	2
Fructose-bisphosphate aldolase A OS=Homo sapiens GN=ALDOA PE=1 SV=2	sp P04075 ALDOA_HUMAN	39	6	0	0	0
Immunoglobulin kappa variable 3-15 OS=Homo sapiens GN=IGKV3-15 PE=1 SV=2	sp P01624 KV315_HUMAN	12	5	2	19	6
Immunoglobulin lambda variable 3-19 OS=Homo sapiens GN=IGLV3-19 PE=1 SV=2	sp P01714 LV319_HUMAN	12	5	3	7	7
Immunoglobulin heavy variable 4-39 OS=Homo sapiens GN=IGHV4-39 PE=1 SV=2	sp P01824 HV439_HUMAN (+2)	14	5	0	8	2
Neuroblast differentiation-associated protein AHNAK OS=Homo sapiens GN=AHNAK PE=1 SV=2	sp Q09666 AHNK_HUMAN	629	5	3	0	3
Serum amyloid A-4 protein OS=Homo sapiens GN=SAA4 PE=1 SV=2	sp P35542 SAA4_HUMAN	15	5	2	5	0
Protein S100-A14 OS=Homo sapiens GN=S100A14 PE=1 SV=1	sp Q9HCY8 S10AE_HUMAN	12	5	2	0	2
Serum paraoxonase/arylesterase 1 OS=Homo sapiens GN=PON1 PE=1 SV=3	sp P27169 PON1_HUMAN	40	4	6	15	15
Glycoprotein hormones alpha chain OS=Homo sapiens GN=CGA PE=1 SV=1	sp P01215 GLHA_HUMAN	13	4	12	7	11
Gasdermin-A OS=Homo sapiens GN=GSDMA PE=1 SV=4	sp Q96QA5 GSDMA_HUMAN	49	4	5	0	8
Gamma-glutamyl hydrolase OS=Homo sapiens GN=GGH PE=1 SV=2	sp Q92820 GGH_HUMAN	36	4	7	6	5
Fatty acid-binding protein, epidermal OS=Homo sapiens GN=FABP5 PE=1 SV=3	sp Q01469 FABP5_HUMAN	15	4	14	0	6
Gamma-glutamylcyclotransferase OS=Homo sapiens GN=GGCT PE=1 SV=1	sp O75223 GGCT_HUMAN	21	4	11	0	3
Serpin B12 OS=Homo sapiens GN=SERPINB12 PE=1 SV=1	sp Q96P63 SPB12_HUMAN	46	4	8	0	5
Galectin-7 OS=Homo sapiens GN=LGALS7 PE=1 SV=2	sp P47929 LEG7_HUMAN	15	4	5	0	2
Peptidyl-prolyl cis-trans isomerase B OS=Homo sapiens GN=PPIB PE=1 SV=2	sp P23284 PPIB_HUMAN	24	4	0	0	0
Protein-glutamine gamma-glutamyltransferase E OS=Homo sapiens GN=TGM3 PE=1 SV=4	sp Q08188 TGM3_HUMAN	77	3	18	2	8
Immunoglobulin kappa variable 2-30 OS=Homo sapiens GN=IGKV2-30 PE=3 SV=2	sp P06310 KV230_HUMAN	13	3	0	6	2
Desmocollin-1 OS=Homo sapiens GN=DSC1 PE=1 SV=2	sp Q08554 DSC1_HUMAN	100	3	2	0	12

Mannose-binding protein C OS=Homo sapiens GN=MBL2 PE=1 SV=2	sp P11226 MBL2_HUMAN	26	3	3	8	4
Immunoglobulin lambda variable 2-23 OS=Homo sapiens GN=IGLV2-23 PE=1 SV=2	sp P01705 LV223_HUMAN	12	3	3	3	0
Immunoglobulin lambda variable 1-47 OS=Homo sapiens GN=IGLV1-47 PE=1 SV=2	sp P01700 LV147_HUMAN	12	3	0	4	2
Angiotensinogen OS=Homo sapiens GN=AGT PE=1 SV=1	sp P01019 ANGT_HUMAN	53	3	5	0	2
Heat shock protein HSP 90-beta OS=Homo sapiens GN=HSP90AB1 PE=1 SV=4	sp P08238 HS90B_HUMAN	83	3	3	0	0
Histone H2B type 1-K OS=Homo sapiens GN=HIST1H2BK PE=1 SV=3	sp O60814 H2B1K_HUMAN (+7)	14	3	0	3	2
Thrombospondin-1 OS=Homo sapiens GN=THBS1 PE=1 SV=2	sp P07996 TSP1_HUMAN	129	3	2	0	3
Protein S100-A16 OS=Homo sapiens GN=S100A16 PE=1 SV=1	sp Q96FQ6 S10AG_HUMAN	12	3	0	0	0
Elongation factor 1-alpha 1 OS=Homo sapiens GN=EEF1A1 PE=1 SV=1	sp P68104 EF1A1_HUMAN (+1)	50	3	0	0	2
ADP-ribosylation factor 3 OS=Homo sapiens GN=ARF3 PE=1 SV=2	sp P61204 ARF3_HUMAN (+2)	21	3	0	0	0
Choriogonadotropin subunit beta 3 OS=Homo sapiens GN=CGB3 PE=1 SV=1	sp P0DN86 CGB3_HUMAN (+2)	18	2	17	9	15
Serpin B3 OS=Homo sapiens GN=SERPINB3 PE=1 SV=2	sp P29508 SPB3_HUMAN	45	2	22	0	0
Immunoglobulin kappa variable 1-17 OS=Homo sapiens GN=IGKV1-17 PE=1 SV=2	sp P01599 KV117_HUMAN	13	2	0	3	3
Protein S100-A7 OS=Homo sapiens GN=S100A7 PE=1 SV=4	sp P31151 S10A7_HUMAN	11	2	8	2	3
Neutrophil defensin 3 OS=Homo sapiens GN=DEFA3 PE=1 SV=1	sp P59666 DEF3_HUMAN	10 k	2	6	2	2
Cathepsin D OS=Homo sapiens GN=CTSD PE=1 SV=1	sp P07339 CATD_HUMAN	45	2	9	0	5
Insulin-like growth factor-binding protein 6 OS=Homo sapiens GN=IGFBP6 PE=1 SV=1	sp P24592 IBP6_HUMAN	25	2	6	0	2
Prolactin-inducible protein OS=Homo sapiens GN=PIP PE=1 SV=1	sp P12273 PIP_HUMAN	17	2	2	0	0
Ig delta chain C region OS=Homo sapiens GN=IGHD PE=1 SV=2	sp P01880 IGHD_HUMAN	42	2	0	7	6
Glutathione peroxidase 3 OS=Homo sapiens GN=GPX3 PE=1 SV=2	sp P22352 GPX3_HUMAN	26	2	0	2	2
Zinc-alpha-2-glycoprotein OS=Homo sapiens GN=AZGP1 PE=1 SV=2	sp P25311 ZA2G_HUMAN	34	2	6	0	4
14-3-3 protein zeta/delta OS=Homo sapiens GN=YWHAZ PE=1 SV=1	sp P63104 1433Z_HUMAN	28	2	2	5	2
Cystatin-A OS=Homo sapiens GN=CSTA PE=1 SV=1	sp P01040 CYTA_HUMAN	11	2	4	0	0
Lipocalin-1 OS=Homo sapiens GN=LCN1 PE=1 SV=1	sp P31025 LCN1_HUMAN	19	2	4	2	2
Catalase OS=Homo sapiens GN=CAT PE=1 SV=3	sp P04040 CATA_HUMAN	60	2	3	0	4
Metalloproteinase inhibitor 2 OS=Homo sapiens GN=TIMP2 PE=1 SV=2	sp P16035 TIMP2_HUMAN	24	2	3	3	0
Extracellular superoxide dismutase [Cu-Zn] OS=Homo sapiens GN=SOD3 PE=1 SV=2	sp P08294 SODE_HUMAN	26	2	3	0	3
Tubulin alpha-1B chain OS=Homo sapiens GN=TUBA1B PE=1 SV=1	sp P68363 TBA1B_HUMAN (+2)	50	2	0	0	2
Centromere-associated protein E OS=Homo sapiens GN=CENPE PE=1 SV=2	sp Q02224 CENPE_HUMAN	316	2	0	0	0
Immunoglobulin lambda variable 7-43 OS=Homo sapiens GN=IGLV7-43 PE=3 SV=2	sp P04211 LV743_HUMAN	12	2	2	2	0
Histone H4 OS=Homo sapiens GN=HIST1H4A PE=1 SV=2	sp P62805 H4_HUMAN	11	2	0	0	2
Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1 SV=1	sp P11142 HSP7C_HUMAN	71	2	2	0	2
Protein POF1B OS=Homo sapiens GN=POF1B PE=1 SV=3	sp Q8WVV4 POF1B_HUMAN	68	2	2	0	3
L-lactate dehydrogenase A chain OS=Homo sapiens GN=LDHA PE=1 SV=2	sp P00338 LDHA_HUMAN	37	2	0	0	0

Pyruvate kinase PKM OS=Homo sapiens GN=PKM PE=1 SV=4	sp P14618 KPYM_HUMAN	58	2	0	0	0
Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2	sp P02675 FIBB_HUMAN	56	0	36	263	245
Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3	sp P02679 FIBG_HUMAN	52	0	44	233	215
Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2	sp P10643 CO7_HUMAN	94	0	0	0	120
Keratin, type II cytoskeletal 4 OS=Homo sapiens GN=KRT4 PE=1 SV=4	sp P19013 K2C4_HUMAN	57	0	10	43	39
Keratin, type I cytoskeletal 13 OS=Homo sapiens GN=KRT13 PE=1 SV=4	sp P13646 K1C13_HUMAN	50	0	20	34	70
Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2	sp P00736 C1R_HUMAN	80	0	9	10	48
Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3	sp P13671 CO6_HUMAN	105	0	0	0	75
Selenoprotein P OS=Homo sapiens GN=SEPP1 PE=1 SV=3	sp P49908 SEPP1_HUMAN	43	0	24	6	5
Immunoglobulin heavy variable 3-15 OS=Homo sapiens GN=IGHV3-15 PE=3 SV=1	sp A0A0B411V0 HV315_HUMAN	13	0	0	7	0
Keratin, type II cytoskeletal 2 oral OS=Homo sapiens GN=KRT76 PE=1 SV=2	sp Q01546 K22O_HUMAN	66	0	17	0	0
Ig gamma-4 chain C region OS=Homo sapiens GN=IGHG4 PE=1 SV=1	sp P01861 IGHG4_HUMAN	36	0	0	31	0
Lactotransferrin OS=Homo sapiens GN=LTF PE=1 SV=6	sp P02788 TRFL_HUMAN	78	0	20	0	5
Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1	sp Q08380 LG3BP_HUMAN	65	0	15	0	5
Transthyretin OS=Homo sapiens GN=TTR PE=1 SV=1	sp P02766 TTHY_HUMAN	16	0	2	6	4
Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4	sp P12259 FA5_HUMAN	252	0	5	0	10
Annexin A1 OS=Homo sapiens GN=ANXA1 PE=1 SV=2	sp P04083 ANXA1_HUMAN	39	0	2	11	9
Phosphatidylinositol-glycan-specific phospholipase D OS=Homo sapiens GN=GPLD1 PE=1 SV=3	sp P80108 PHLD_HUMAN	92	0	2	0	18
Polyubiquitin-B OS=Homo sapiens GN=UBB PE=1 SV=1	sp P0CG47 UBB_HUMAN (+3)	26	0	6	0	0
Alpha-amylase 1 OS=Homo sapiens GN=AMY1A PE=1 SV=2	sp P04745 AMY1_HUMAN	58	0	0	13	0
F-box only protein 50 OS=Homo sapiens GN=NCCRP1 PE=1 SV=1	sp Q6ZVX7 FBX50_HUMAN	31	0	2	0	4
Apolipoprotein L1 OS=Homo sapiens GN=APOL1 PE=1 SV=5	sp O14791 APOL1_HUMAN	44	0	0	12	0
C4b-binding protein beta chain OS=Homo sapiens GN=C4BPB PE=1 SV=1	sp P20851 C4BPB_HUMAN	28	0	3	3	7
Complement factor H-related protein 4 OS=Homo sapiens GN=CFHR4 PE=1 SV=3	sp Q92496 FHR4_HUMAN	65	0	8	0	2
Neuropilin-1 OS=Homo sapiens GN=NRP1 PE=1 SV=3	sp O14786 NRP1_HUMAN	103	0	8	0	2
L-lactate dehydrogenase B chain OS=Homo sapiens GN=LDHB PE=1 SV=2	sp P07195 LDHB_HUMAN	37	0	2	0	6
Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3	sp P08697 A2AP_HUMAN	55	0	3	0	4
Ribonuclease pancreatic OS=Homo sapiens GN=RNASE1 PE=1 SV=4	sp P07998 RNAS1_HUMAN	18	0	11	0	0
Pregnancy-specific beta-1-glycoprotein 6 OS=Homo sapiens GN=PSG6 PE=2 SV=1	sp Q00889 PSG6_HUMAN	49	0	6	0	6
Neutrophil gelatinase-associated lipocalin OS=Homo sapiens GN=LCN2 PE=1 SV=2	sp P80188 NGAL_HUMAN	23	0	5	0	5
Coagulation factor XIII B chain OS=Homo sapiens GN=F13B PE=1 SV=3	sp P05160 F13B_HUMAN	76	0	0	0	11
ATP synthase subunit alpha, mitochondrial OS=Homo sapiens GN=ATP5A1 PE=1 SV=1	sp P25705 ATPA_HUMAN	60	0	0	3	3
Arginase-1 OS=Homo sapiens GN=ARG1 PE=1 SV=2	sp P05089 ARG1_HUMAN	35	0	2	0	2
Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1	sp P02774 VTDB_HUMAN	53	0	7	0	2



Retinol-binding protein 4 OS=Homo sapiens GN=RBP4 PE=1 SV=3	sp P02753 RET4_HUMAN	23	0	0	4	7
Hemoglobin subunit beta OS=Homo sapiens GN=HBB PE=1 SV=2	sp P68871 HBB_HUMAN	16	0	0	0	2
Immunoglobulin kappa variable 2-28 OS=Homo sapiens GN=IGKV2-28 PE=3 SV=1	sp A0A075B6P5 KV228_HUMAN (+2)	13	0	0	0	3
Calmodulin-like protein 5 OS=Homo sapiens GN=CALML5 PE=1 SV=2	sp Q9NZT1 CALL5_HUMAN	16	0	3	0	0
Small proline-rich protein 3 OS=Homo sapiens GN=SPRR3 PE=1 SV=2	sp Q9UBC9 SPRR3_HUMAN	18	0	0	6	4
Immunoglobulin lambda variable 2-8 OS=Homo sapiens GN=IGLV2-8 PE=1 SV=2	sp P01709 LV208_HUMAN	12	0	0	5	0
Alpha-2-HS-glycoprotein OS=Homo sapiens GN=AHSG PE=1 SV=1	sp P02765 FETUA_HUMAN	39	0	0	0	3
Immunoglobulin heavy variable 1-46 OS=Homo sapiens GN=IGHV1-46 PE=1 SV=2	sp P01743 HV146_HUMAN	13	0	0	4	0
Suprabasin OS=Homo sapiens GN=SBSN PE=1 SV=2	sp Q6UWP8 SBSN_HUMAN	61	0	2	0	2
P-selectin OS=Homo sapiens GN=SELP PE=1 SV=3	sp P16109 LYAM3_HUMAN	91	0	4	0	2
Cartilage acidic protein 1 OS=Homo sapiens GN=CRTAC1 PE=1 SV=2	sp Q9NQ79 CRAC1_HUMAN	71	0	0	0	3
Cytoplasmic dynein 2 heavy chain 1 OS=Homo sapiens GN=DYNC2H1 PE=1 SV=4	sp Q8NCM8 DYHC2_HUMAN	493	0	2	0	0
Protein S100-A11 OS=Homo sapiens GN=S100A11 PE=1 SV=2	sp P31949 S10AB_HUMAN	12	0	0	2	0
Heat shock 70 kDa protein 1A OS=Homo sapiens GN=HSPA1A PE=1 SV=1	sp P0DMV8 HS71A_HUMAN (+2)	70	0	3	0	0
Hydroperoxide isomerase ALOXE3 OS=Homo sapiens GN=ALOXE3 PE=1 SV=1	sp Q9BYJ1 LOXE3_HUMAN	81	0	0	0	2
Transmembrane glycoprotein NMB OS=Homo sapiens GN=GPNMB PE=1 SV=2	sp Q14956 GPNMB_HUMAN	64	0	2	0	0
Polymeric immunoglobulin receptor OS=Homo sapiens GN=PIGR PE=1 SV=4	sp P01833 PIGR_HUMAN	83	0	2	0	0
Tropomyosin alpha-4 chain OS=Homo sapiens GN=TPM4 PE=1 SV=3	sp P67936 TPM4_HUMAN	29	0	2	0	0
A disintegrin and metalloproteinase with thrombospondin motifs 13 OS=Homo sapiens GN=ADAMTS13 PE=1 SV=1	sp Q76LX8 ATS13_HUMAN	154	0	2	0	0
Tenascin-X OS=Homo sapiens GN=TNXB PE=1 SV=4	sp P22105 TENX_HUMAN	458	0	0	0	4
Immunoglobulin lambda variable 1-51 OS=Homo sapiens GN=IGLV1-51 PE=1 SV=2	sp P01701 LV151_HUMAN	12	0	0	3	0
Thioredoxin OS=Homo sapiens GN=TXN PE=1 SV=3	sp P10599 THIO_HUMAN	12	0	2	0	0
Hemoglobin subunit alpha OS=Homo sapiens GN=HBA1 PE=1 SV=2	sp P69905 HBA_HUMAN	15	0	0	0	2
Insulin-like growth factor-binding protein 2 OS=Homo sapiens GN=IGFBP2 PE=1 SV=2	sp P18065 IBP2_HUMAN	35	0	2	0	0
Insulin-like growth factor-binding protein 4 OS=Homo sapiens GN=IGFBP4 PE=1 SV=2	sp P22692 IBP4_HUMAN	28	0	3	0	0
Pregnancy-specific beta-1-glycoprotein 4 OS=Homo sapiens GN=PSG4 PE=2 SV=3	sp Q00888 PSG4_HUMAN	47	0	7	0	0
Keratin, type I cytoskeletal 18 OS=Homo sapiens GN=KRT18 PE=1 SV=2	sp P05783 K1C18_HUMAN	48 k	0	3	0	0
Peptidoglycan recognition protein 1 OS=Homo sapiens GN=PGLYRP1 PE=1 SV=1	sp O75594 PGRP1_HUMAN	22	0	2	0	0
Attractin OS=Homo sapiens GN=ATRN PE=1 SV=2	sp O75882 ATRN_HUMAN	159	0	0	0	2
Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens GN=ITIH3 PE=1 SV=2	sp Q06033 ITIH3_HUMAN	100	0	0	0	2
Lysosome-associated membrane glycoprotein 1 OS=Homo sapiens GN=LAMP1 PE=1 SV=3	sp P11279 LAMP1_HUMAN	45	0	2	0	0
Mucin-5B OS=Homo sapiens GN=MUC5B PE=1 SV=3	sp Q9HC84 MUC5B_HUMAN	596	0	0	2	0
Collagen alpha-1(III) chain OS=Homo sapiens GN=COL3A1 PE=1 SV=4	sp P02461 CO3A1_HUMAN	139	0	0	0	3

Alpha-2-macroglobulin-like protein 1 OS=Homo sapiens GN=A2ML1 PE=1 SV=3	sp A8K2U0 A2ML1_HUMAN	161	0	2	0	0
Protein sel-1 homolog 3 OS=Homo sapiens GN=SEL1L3 PE=1 SV=2	sp Q68CR1 SE1L3_HUMAN	129	0	0	0	2
Pregnancy-specific beta-1-glycoprotein 1 OS=Homo sapiens GN=PSG1 PE=1 SV=1	sp P11464 PSG1_HUMAN	47	0	0	0	8