

Saliva and Serum Protein Exchange at the Tooth Enamel Surface

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APPENDIX

Appendix Table 1A. Saliva proteins adsorbed to hydroxyapatite identified in stained protein bands.

	Unique peptides	Total peptides	Reference	Gene Symbol	MW (kDa)	Name	Glycosylated	Phosphorylated	Theoretical pI
Band 1 (6.9 kDa)									
	2	2	Q07020_RL18_HUMAN	RPL18	21.62	60S ribosomal protein L18	No	Yes	11.73
Band 2 (9.7 kDa)									
	3	3	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	3	3	P02760_AMBP_HUMAN	AMBP	38.97	Protein AMBP	Yes	No	6.13
	2	3	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	2	Q07020_RL18_HUMAN	RPL18	21.62	60S ribosomal protein L18	No	Yes	11.73
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
Band 3 (12 kDa)									
	4	4	P10599_THIO_HUMAN	TXN	11.73	Thioredoxin	No	No	4.82
	4	4	P12273_PIP_HUMAN	PIP	16.56	Prolactin-inducible protein	Yes	No	5.4
	3	4	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	3	4	P61769_B2MG_HUMAN	B2M	13.71	Beta-2-microglobulin	Yes	No	6.07
	3	3	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	3	3	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	3	P02760_AMBP_HUMAN	AMBP	38.97	Protein AMBP	Yes	No	6.13
	2	2	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	2	2	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	11.36
	2	2	P01036_CYTS_HUMAN	CST4	16.2	Cystatin-S	No	Yes	4.83
Band 4 (16 kDa)									
	6	30	P01036_CYTS_HUMAN	CST4	16.2	Cystatin-S	No	Yes	4.83
	3	4	P02760_AMBP_HUMAN	AMBP	38.97	Protein AMBP	Yes	No	6.13
	3	3	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	3	3	P01037_CYTN_HUMAN	CST1	16.38	Cystatin-SN	No	No	6.92

	3	3	P12273_PIP_HUMAN	PIP	16.56	Prolactin-inducible protein	Yes	No	5.4
	2	3	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	2	P68871_HBB_HUMAN	HBB	15.99	Hemoglobin subunit beta	Yes	Yes	6.81
	2	2	P04080_CYTBB_HUMAN	CSTB	11.13	Cystatin-B	No	No	6.96
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
Band 5 (20 kDa)									
	4	12	P01036_CYTS_HUMAN	CST4	16.2	Cystatin-S	No	Yes	4.83
	4	4	P12273_PIP_HUMAN	PIP	16.56	Prolactin-inducible protein	Yes	No	5.4
	4	4	P02808_STAT_HUMAN	STHAT	6-Jan	Statherin	No	Yes	6.25
	3	4	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	3	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	3	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	2	2	P68871_HBB_HUMAN	HBB	15.99	Hemoglobin subunit beta	Yes	Yes	6.81
	2	2	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	2	2	P69905_HBA_HUMAN	HBA1	15.25	Hemoglobin subunit alpha	Yes	Yes	8.73
Band 6 (21 kDa)									
	4	4	P12273_PIP_HUMAN	PIP	16.56	Prolactin-inducible protein	Yes	No	5.4
	3	4	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	3	P02760_AMBP_HUMAN	AMBP	38.97	Protein AMBP	Yes	No	6.13
	2	2	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	2	2	P23284_PPIB_HUMAN	PPIB	23.73	Peptidyl-prolyl cis-trans isomerase B	Yes	No	9.25
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	2	P41222_PTGDS_HUMAN	PTGDS	21.02	Prostaglandin-H2 D-isomerase	Yes	No	8.37
	2	2	P02810_PRRPC_HUMAN	PRH1	24	Salivary acidic proline-rich phosphoprotein 1/2	Yes	Yes	4.14
Band 7 (22-25 kDa)									
	8	12	P23284_PPIB_HUMAN	PPIB	23.73	Peptidyl-prolyl cis-trans isomerase B	Yes	No	9.25
	6	8	P07951_TPM2_HUMAN	TPM2	32.83	Tropomyosin beta chain	No	Yes	4.66
	6	7	P10916_MLRV_HUMAN	MYL2	18.78	Myosin regulatory light chain 2, ventricular/cardiac muscle isoform	No	Yes	4.9
	6	6	P32119_PRDX2_HUMAN	PRDX2	21.88	Peroxiredoxin-2	No	Yes	5.67
	5	5	P04792_HSPB1_HUMAN	HSPB1	22.77	Heat shock protein beta-1	No	Yes	5.98

	5	5	Q96DA0_ZG16B_HUMAN	ZG16B	22.72	Zymogen granule protein 16 homolog B	Yes	No	5.39
	4	6	P62987_RL40_HUMAN	UBA52	14.72	Ubiquitin-60S ribosomal protein L40	No	Yes	10.32
	4	5	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	11.36
	4	4	P08590_MYL3_HUMAN	MYL3	21.92	Myosin light chain 3	No	Yes	5.03
	4	4	P02647_APOA1_HUMAN	APOA1	30.76	Apolipoprotein A-I	Yes	Yes	5.56
	4	4	P31947_1433S_HUMAN	SFN	27.76	14-3-3 protein sigma	No	Yes	4.68
	4	4	P00568_KAD1_HUMAN	AK1	21.62	Adenylate kinase isoenzyme 1	No	Yes	8.73
	3	8	P12273_PIP_HUMAN	PIP	16.56	Prolactin-inducible protein	Yes	No	5.4
	3	4	P02585_TNNC2_HUMAN	TNNC2	18.11	Troponin C, skeletal muscle	No	No	4.06
	3	4	P80188_NGAL_HUMAN	LCN2	22.57	Neutrophil gelatinase-associated lipocalin	No	No	9.02
	3	3	O75223_GGCT_HUMAN	GGCT	20.99	Gamma-glutamylcyclotransferase	No	Yes	5.07
	3	3	P01036_CYTS_HUMAN	CST4	16.2	Cystatin-S	No	Yes	4.83
	3	3	P48788_TNNI2_HUMAN	TNNI2	21.32	Troponin I, fast skeletal muscle	No	Yes	8.88
	3	3	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	3	3	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	3	3	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	no	Yes	8.27
	3	3	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	3	3	Q13885_TBB2A_HUMAN	TUBB2A	49.87	Tubulin beta-2A chain	No	Yes	4.78
	2	3	P05976_MYL1_HUMAN	MYL1	21.13	Myosin light chain 1/3, skeletal muscle isoform	No	Yes	4.97
	2	3	P56537_IF6_HUMAN	EIF6	26.58	Eukaryotic translation initiation factor 6	No	Yes	4.56
	2	2	P68871_HBB_HUMAN	HBB	15.99	Hemoglobin subunit beta	Yes	Yes	6.81
	2	2	P06753_TPM3_HUMAN	TPM3	32.93	Tropomyosin alpha-3 chain	No	Yes	4.68
	2	2	P45378_TNNT3_HUMAN	TNNT3	31.81	Troponin T, fast skeletal muscle	No	Yes	5.71
	2	2	P63316_TNNC1_HUMAN	TNNC1	18.39	Troponin C, slow skeletal and cardiac muscles	No	Yes	4.02
	2	2	P13805_TNNT1_HUMAN	TNNT1	32.93	Troponin T, slow skeletal muscle	No	Yes	5.86
	2	2	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	2	P62258_1433E_HUMAN	YWHAE	29.16	14-3-3 protein beta/alpha	No	Yes	4.63
	2	2	O60911_CATL2_HUMAN	CTSV	37.31	Cathepsin L2	Yes	No	8.59
	2	2	Q99497_PARK7_HUMAN	PARK7	19.88	Protein deglycase DJ-1	No	Yes	6.32
	2	2	P52566_GDIR2_HUMAN	ARHGDI2	22.97	Rho GDP-dissociation inhibitor 2	No	Yes	5.08

	2	2	Q15828_CYTM_HUMAN	CST6	16.5	Cystatin-M	Yes	No	7
	2	2	P40926_MDHM_HUMAN	MDH2	35.48	Malate dehydrogenase, mitochondrial	Yes	No	8.54
	2	2	Q14116_IL18_HUMAN	IL18	22.31	Interleukin-18	No	No	5.01
	2	2	P11021_GRP78_HUMAN	HSPA5	72.29	78 kDa glucose-regulated protein	No	Yes	5.01
	2	2	H3BR70_H3BR70_HUMAN	PKM	40.16	Pyruvate kinase	No	No	7.96
	2	2	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P69905_HBA_HUMAN	HBA1	15.25	Hemoglobin subunit alpha	Yes	Yes	8.73
	2	2	P31946_1433B_HUMAN	YWHAB	28.06	14-3-3 protein beta/alpha	No	Yes	4.76
	2	2	P20160_CAP7_HUMAN	AZU1	26.87	Azurocidin	Yes	No	9.53
	2	2	P05090_APOD_HUMAN	APOD	21.26	Apolipoprotein D	Yes	No	5.2
	2	2	Q8NCW5_NNRE_HUMAN	APOA1BP	31.65	NAD(P)H-hydrate epimerase	No	Yes	5.03
Band 8 (31 kDa)									
	6	6	Q96DR5_BPIA2_HUMAN	BPIFA2	26.99	BPI fold-containing family A member 2	Yes	No	5.19
	4	5	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	4	4	Q96DA0_ZG16B_HUMAN	ZG16B	22.72	Zymogen granule protein 16 homolog B	Yes	No	5.39
	4	4	P13533_MYH6_HUMAN	MYH6	223.6	Myosin-6	No	Yes	5.58
	4	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	4	P52566_GDIR2_HUMAN	ARHGDI2	22.97	Rho GDP-dissociation inhibitor 2	No	Yes	5.08
	2	3	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	2	3	P31946_1433B_HUMAN	YWHAB	28.06	14-3-3 protein beta/alpha	No	Yes	4.76
	2	2	P80188_NGAL_HUMAN	LCN2	22.57	Neutrophil gelatinase-associated lipocalin	No	No	9.02
	2	2	P04406_G3P_HUMAN	GAPDH	36.03	Glyceraldehyde-3-phosphate dehydrogenase	No	Yes	8.58
	2	2	P60709_ACTB_HUMAN	ACTB	41.71	Actin, cytoplasmic 1	No	No	5.29
	2	2	O00299_CLIC1_HUMAN	CLIC1	26.91	Chloride intracellular channel protein 1	No	Yes	5.09
	2	2	P20160_CAP7_HUMAN	AZU1	26.87	Azurocidin	Yes	No	9.53
	2	2	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P05090_APOD_HUMAN	APOD	21.26	Apolipoprotein D	Yes	No	5.2
Band 9 (49-51 kDa)									
	5	7	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	5	5	Q9UKX3_MYH13_HUMAN	MYH13	223.47	Myosin-13	No	No	5.53

	4	5	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	4	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	3	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	3	3	P12273_PIP_HUMAN	PIP	16.56	Prolactin-inducible protein	Yes	No	5.4
	2	2	P30740_ILEU_HUMAN	SERPINB1	42.71	Leukocyte elastase inhibitor	No	No	5.9
	2	2	Q96DA0_ZG16B_HUMAN	ZG16B	22.72	Zymogen granule protein 16 homolog B	Yes	No	5.39
	2	2	P12882_MYH1_HUMAN	MYH1	223.01	Myosin-1	No	Yes	5.58
	2	2	P62987_RL40_HUMAN	UBA52	14.72	Ubiquitin-60S ribosomal protein L40	No	Yes	10.32
	2	2	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	2	2	P04406_G3P_HUMAN	GAPDH	36.03	Glyceraldehyde-3-phosphate dehydrogenase	No	Yes	8.58
	2	2	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	2	2	P23280_CAH6_HUMAN	CA6	35.34	Carbonic anhydrase 6	Yes	No	6.41
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	no	Yes	8.27
	2	2	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase	No	No	7.96
Band 10 (60 kDa)									
	11	19	AMY1_HUMAN	AMY1A	57.73	Alpha-amylase 1	Yes	Nos	6.34
	4	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	4	4	P68104_EEF1A1_HUMAN	EEF1A1	50.11	Elongation factor 1-alpha 1	No	Yes	9.1
	4	4	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	3	3	P05164_PERM_HUMAN	MPO	83.81	Myeloperoxidase	Yes	No	9.22
	3	3	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	no	Yes	8.27
	2	2	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	2	2	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase	No	No	7.96
	2	2	P02788_TRFL_HUMAN	LTF	78.13	Lactotransferrin	Yes	Yes	8.47
	2	2	P32119_PRDX2_HUMAN	PRDX2	21.88	Peroxiredoxin-2	No	Yes	5.67
Band 11 (63 kDa)									
	9	27	AMY1_HUMAN	AMY1A	57.73	Alpha-amylase 1	Yes	Nos	6.34
	7	8	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	5	5	P07237_PDIA1_HUMAN	P4HB	57.08	Protein disulfide-isomerase	No	Yes	4.69
	5	5	P05164_PERM_HUMAN	MPO	83.81	Myeloperoxidase	Yes	No	9.22

	3	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	3	O75223_GGCT_HUMAN	GGCT	20.99	Gamma-glutamylcyclotransferase	No	Yes	5.07
	2	2	P62987_RL40_HUMAN	UBA52	14.72	Ubiquitin-60S ribosomal protein L40	No	Yes	10.32
	2	2	P41222_PTGDS_HUMAN	PTGDS	21.02	Prostaglandin-H2 D-isomerase	Yes	No	8.37
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	2	P01011_AACT_HUMAN	SERPINA3	47.62	Alpha-1-antichymotrypsin	Yes	No	5.32
	2	2	P01019_ANGT_HUMAN	AGT	53.12	Angiotensinogen	Yes	No	5.6
	2	2	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	2	2	P32119_PRDX2_HUMAN	PRDX2	21.88	Peroxiredoxin-2	No	Yes	5.67
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27
	2	2	P07384_CAN1_HUMAN	CAPN1	81.84	Calpain-1 catalytic subunit	No	No	5.49
Band 12 (71 kDa)									
	23	38	ALBU_HUMAN	ALB	69.32	Serum albumin	Yes	Yes	5.67
	6	6	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	3	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	3	3	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	3	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	2	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	11.36
	2	2	P60709_ACTB_HUMAN	ACTB	41.71	Actin, cytoplasmic 1	No	No	5.29
	2	2	P13796_PLSL_HUMAN	LCP1	70.24	Plastin-2	No	Yes	5.29
	2	2	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase	No	No	7.96
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	no	Yes	8.27
Band 13 (75-100 kDa)									
	10	10	P02788_TRFL_HUMAN	LTF	78.13	Lactotransferrin	Yes	Yes	8.47
	6	6	P11021_GRP78_HUMAN	HSPA5	72.29	78 kDa glucose-regulated protein	No	Yes	5.01
	4	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	4	P02787_TRFE_HUMAN	TF	77.01	Serotransferrin	Yes	Yes	6.7
	3	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	3	3	P13667_PDIA4_HUMAN	PDIA4	72.89	Protein disulfide-isomerase A4	No	No	4.89
	3	3	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	3	3	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48

	2	2	P60709_ACTB_HUMAN	ACTB	41.71	Actin, cytoplasmic 1	No	No	5.29
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	no	Yes	8.27
	2	2	P62987_RL40_HUMAN	UBA52	14.72	Ubiquitin-60S ribosomal protein L40	No	Yes	10.32
	2	2	P01871_IGHM_HUMAN	IGHM	49.28	Ig mu chain C region	Yes	No	6.35
	2	2	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P22079_PERL_HUMAN	LPO	80.24	Lactoperoxidase	Yes	Yes	8.22
Band 14 (100+ kDa)									
	3	3	P32119_PRDX2_HUMAN	PRDX2	21.88	Peroxiredoxin-2	No	Yes	5.67

Appendix Table 1B. Serum proteins adsorbed to hydroxyapatite identified in stained protein bands.

	Unique peptides	Total peptides	Reference	Gene Symbol	MW (kDa)	Name	Glycosylated	Phosphorylated	Theoretical pI
Band A (9.9 kDa)									
	5	5	P02652_APOA2_HUMAN	APOA2	11.17	Apolipoprotein A-II	Yes	Yes	5.05
	3	3	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	6.92
	2	3	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	2	P02656_APOC3_HUMAN	APOC3	10.85	Apolipoprotein C-III	Yes	No	4.72
	2	2	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	2	2	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	2	P04004_VTNC_HUMAN	VTN	54.27	Vitronectin	Yes	Yes	5.47
Band B (10-15 kDa)									
	4	5	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	4	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	4	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	6.92
	3	3	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27
	2	3	P02656_APOC3_HUMAN	APOC3	10.85	Apolipoprotein C-III	Yes	No	4.72
	2	2	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	2	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9

	2	2	P68104_EF1A1_HUMAN	EEF1A1	50.11	Elongation factor 1-alpha 1	No	Yes	9.1
	2	2	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	2	2	P00739_HPTR_HUMAN	HPR	39	Haptoglobin-related protein	No	No	6.63
Band C (17 kDa)									
	3	3	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	6.92
	2	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	3	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	2	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	2	2	P06727_APOA4_HUMAN	APOA4	45.37	Apolipoprotein A-IV	No	Yes	5.28
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27
	2	2	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
Band D (26 kDa)									
	13	14	P02647_APOA1_HUMAN	APOA1	30.76	Apolipoprotein A-I	Yes	Yes	5.56
	5	5	P02649_APOE_HUMAN	APOE	36.13	Apolipoprotein E	Yes	Yes	5.65
	2	2	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	2	P0CG05_LAC2_HUMAN	IGLC2	11.29	Ig lambda-2 chain C regions	No	No	6.91
	2	2	P02753_RET4_HUMAN	RBP4	23	Retinol-binding protein 4	No	No	5.76
	2	2	P02741_CRP_HUMAN	CRP	25.02	C-reactive protein	No	No	5.28
Band E (28 kDa)									
	6	8	P02647_APOA1_HUMAN	APOA1	30.76	Apolipoprotein A-I	Yes	Yes	5.56
	3	11	P01620_KV302_HUMAN	N/A	11.77	Ig kappa chain V-III region SIE	No	No	8.7
	3	8	P0CG05_LAC2_HUMAN	IGLC2	11.29	Ig lambda-2 chain C regions	No	No	6.91
	3	5	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	3	4	P05090_APOD_HUMAN	APOD	21.26	Apolipoprotein D	Yes	No	5.2
	3	3	P02649_APOE_HUMAN	APOE	36.13	Apolipoprotein E	Yes	Yes	5.65
	3	3	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	2	5	P04433_KV309_HUMAN	N/A	12.57	Ig kappa chain V-III region VG	No	No	4.85
	2	3	B9A064_IGLL5_HUMAN	IGLL5	23.05	Immunoglobulin lambda-like polypeptide 5	No	No	9.08
	2	2	P80748_LV302_HUMAN	N/A	11.93	Ig lambda chain V-III region LOI	No	No	5.24
	2	2	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24

	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	2	A0A075B6I0_A0A075B6I0_HUMAN	IGLV8-61	12.81	Protein IGLV8-61	No	No	4.33
	2	2	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
Band F (42 kDa)									
	7	7	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	5	5	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	5	5	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	5	5	P58107_EPIPL_HUMAN	EPPK1	555.28	Epiplakin	No	Yes	5.44
	4	4	P06727_APOA4_HUMAN	APOA4	45.37	Apolipoprotein A-IV	No	Yes	5.28
	4	4	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase PKM	No	Yes	7.96
	3	3	P11142_HSP7C_HUMAN	HSPA8	70.85	Heat shock cognate 71 kDa protein	No	Yes	5.37
	3	3	P10909_CLUS_HUMAN	CLU	52.46	Clusterin	Yes	Yes	5.89
	3	3	P05090_APOD_HUMAN	APOD	21.26	Apolipoprotein D	Yes	No	5.2
	2	3	P05120_PA12_HUMAN	SERPINB2	46.57	Plasminogen activator inhibitor 2	Yes	No	5.46
	2	2	P02649_APOE_HUMAN	APOE	36.13	Apolipoprotein E	Yes	Yes	5.65
	2	2	P60709_ACTB_HUMAN	ACTB	41.71	Actin, cytoplasmic 1	No	No	5.29
	2	2	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	2	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	2	2	P02545_LMNA_HUMAN	LMNA	74.09	Prelamin-A/C	No	Yes	6.57
	2	2	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	2	Q01469_FABP5_HUMAN	FABP5	15.15	Fatty acid-binding protein, epidermal	No	Yes	6.82
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27
	2	2	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P06733_ENOA_HUMAN	ENO1	47.14	Alpha-enolase	No	Yes	6.99
Band G (37 kDa)									
	26	29	P06727_APOA4_HUMAN	APOA4	45.37	Apolipoprotein A-IV	No	Yes	5.28
	7	8	P36955_PEDF_HUMAN	SERPINF1	46.28	Pigment epithelium-derived factor	No	Yes	5.9
	5	5	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	4	5	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	2	P00738_HPT_HUMAN	HP	45.18	Haptoglobin	Yes	No	6.13

	2	2	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	2	2	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	6.92
	2	2	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	2	P00739_HPTR_HUMAN	HPR	39	Haptoglobin-related protein	No	No	6.63
	2	2	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	2	2	P0C0L4_CO4A_HUMAN	C4A	192.66	Complement C4-A	Yes	Yes	8.69
Band H (57-60 kDa)									
	6	13	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	5	5	P02774_VTDB_HUMAN	GC	52.93	Vitamin D-binding protein	Yes	No	5.22
	5	5	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	4	4	P02750_A2GL_HUMAN	LRG1	38.15	Leucine-rich alpha-2-glycoprotein	Yes	No	5.66
	3	3	P04083_ANXA1_HUMAN	ANXA1	38.69	Annexin A1	No	Yes	6.64
	3	3	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	3	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	3	D6RF35_D6RF35_HUMAN	GC	52.99	Vitamin D-binding protein	Yes	No	5.22
	2	2	P01009_A1AT_HUMAN	SERPINA1	46.71	Alpha-1-antitrypsin	Yes	Yes	5.37
	2	2	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase PKM	No	Yes	7.96
	2	2	P01008_ANT3_HUMAN	SERPINC1	52.57	Antithrombin-III	Yes	Yes	5.95
	2	2	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	6.92
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27
	2	2	P00338_LDHA_HUMAN	LDHA	36.67	L-lactate dehydrogenase A chain	No	Yes	8.46
	2	2	Q09666_AHNK_HUMAN	AHNAK	628.7	Neuroblast differentiation-associated protein AHNAK	No	Yes	5.8
Band I (64 kDa)									
	8	15	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	7	11	P01009_A1AT_HUMAN	SERPINA1	46.71	Alpha-1-antitrypsin	Yes	Yes	5.37
	7	7	P01008_ANT3_HUMAN	SERPINC1	52.57	Antithrombin-III	Yes	Yes	5.95
	6	6	P01042_KNG1_HUMAN	KNG1	71.91	Kininogen-1	Yes	Yes	6.23
	3	3	P01011_AACT_HUMAN	SERPINA3	47.62	Alpha-1-antichymotrypsin	Yes	No	5.32
	3	3	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	3	P02774_VTDB_HUMAN	GC	52.93	Vitamin D-binding protein	Yes	No	5.22
	2	2	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9

	2	2	P01859_IGHG2_HUMAN	IGHG2	35.88	Ig gamma-2 chain C region	Yes	No	7.66
	2	2	P01019_ANGT_HUMAN	AGT	53.12	Angiotensinogen	Yes	No	5.6
	2	2	Q8WVV4_POF1B_HUMAN	POF1B	68.02	Protein POF1B	No	No	5.89
	2	2	P29622_KAIN_HUMAN	SERPINA4	48.51	Kallistatin	Yes	No	7.88
Band J (68 kDa)									
	42	205	ALBU_HUMAN	ALB	69.32	Serum albumin	Yes	Yes	5.67
	25	38	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	7	8	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	7	7	P01011_AACT_HUMAN	SERPINA3	47.62	Alpha-1-antichymotrypsin	Yes	No	5.32
	6	6	P01042_KNG1_HUMAN	KNG1	71.91	Kininogen-1	Yes	Yes	6.23
	4	4	P01009_A1AT_HUMAN	SERPINA1	46.71	Alpha-1-antitrypsin	Yes	Yes	5.37
	3	5	P04004_VTNC_HUMAN	VTN	54.27	Vitronectin	Yes	Yes	5.47
	3	4	Q9UK55_ZPI_HUMAN	SERPINA10	50.67	Protein Z-dependent protease inhibitor	Yes	Yes	7.86
	3	3	P07357_CO8A_HUMAN	C8A	65.12	Complement component C8 alpha chain	Yes	No	5.74
	3	3	P05546_HEP2_HUMAN	SERPIND1	57.03	Heparin cofactor 2	Yes	Yes	6.26
	3	3	P00751_CFB_HUMAN	CFB	85.48	Complement factor B	Yes	Yes	6.66
	3	3	P01019_ANGT_HUMAN	AGT	53.12	Angiotensinogen	Yes	No	5.6
	3	3	P01008_ANT3_HUMAN	SERPINC1	52.57	Antithrombin-III	Yes	Yes	5.95
	2	3	P02790_HEMO_HUMAN	HPX	51.64	Hemopexin	Yes	No	6.43
	2	3	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P04217_A1BG_HUMAN	A1BG	54.22	Alpha-1B-glycoprotein	Yes	No	5.63
	2	2	P08697_A2AP_HUMAN	SERPINF2	54.53	Alpha-2-antiplasmin	Yes	No	5.87
	2	2	P02748_CO9_HUMAN	C9	63.13	Complement component C9	Yes	Yes	5.42
Band K (80 kDa)									
	22	28	ALBU_HUMAN	ALB	69.32	Serum albumin	Yes	Yes	5.67
	12	17	P02787_TRFE_HUMAN	TF	77.01	Serotransferrin	Yes	Yes	6.7
	5	5	P0C0L4_CO4A_HUMAN	C4A	192.66	Complement C4-A	Yes	Yes	8.69
	5	5	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	4	4	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	4	4	P01871_IGHM_HUMAN	IGHM	49.28	Ig mu chain C region	Yes	No	6.35
	4	4	Q06830_PSDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27

	3	4	P19827_ITIH1_HUMAN	ITIH1	101.33	Inter-alpha-trypsin inhibitor heavy chain H1	Yes	Yes	6.33
	3	3	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	3	3	P11021_GRP78_HUMAN	HSPA5	72.29	78 kDa glucose-regulated protein	No	Yes	5.01
	3	3	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase PKM	No	Yes	7.96
	3	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	3	3	P35858_ALS_HUMAN	IGFALS	65.99	Insulin-like growth factor-binding protein complex acid labile subunit	Yes	No	6.13
	2	3	P0CG05_LAC2_HUMAN	IGLC2	11.29	Ig lambda-2 chain C regions	No	No	6.91
	2	3	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	P04406_G3P_HUMAN	GAPDH	36.03	Glyceraldehyde-3-phosphate dehydrogenase	No	Yes	8.58
	2	2	P62805_H4_HUMAN	HIST1H4A	11.36	Histone H4	No	Yes	6.92
	2	2	P60709_ACTB_HUMAN	ACTB	41.71	Actin, cytoplasmic 1	No	No	5.29
	2	2	P04217_A1BG_HUMAN	A1BG	54.22	Alpha-1B-glycoprotein	Yes	No	5.63
	2	2	P00748_FA12_HUMAN	F12	67.75	Coagulation factor XII	Yes	No	9
	2	2	P32119_PRDX2_HUMAN	PRDX2	21.88	Peroxiredoxin-2	No	Yes	5.67
	2	2	P19823_ITIH2_HUMAN	ITIH2	106.4	Inter-alpha-trypsin inhibitor heavy chain H2	Yes	Yes	5.75
Band L (98 kDa)									
	19	26	P00751_CFB_HUMAN	CFB	85.48	Complement factor B	Yes	Yes	6.66
	18	21	P06396_GELS_HUMAN	GSN	85.64	Gelsolin	No	Yes	5.72
	12	13	P02787_TRFE_HUMAN	TF	77.01	Serotransferrin	Yes	Yes	6.7
	8	8	P10643_CO7_HUMAN	C7	93.46	Complement component C7	Yes	No	6.09
	8	8	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	7	7	P02647_APOA1_HUMAN	APOA1	30.76	Apolipoprotein A-I	Yes	Yes	5.56
	5	5	P00747_PLMN_HUMAN	PLG	90.51	Plasminogen	Yes	Yes	7.08
	4	4	P05155_IC1_HUMAN	SERPING1	55.12	Plasma protease C1 inhibitor	Yes	No	5.97
	4	4	P01876_IGHA1_HUMAN	IGHA1	37.63	Ig alpha-1 chain C region	Yes	No	6.08
	4	4	P04196_HRG_HUMAN	HRG	59.54	Histidine-rich glycoprotein	Yes	No	7.03
	4	4	P62987_RL40_HUMAN	UBA52	14.72	Ubiquitin-60S ribosomal protein L40	No	Yes	10.32
	3	3	P0C0L4_CO4A_HUMAN	C4A	192.66	Complement C4-A	Yes	Yes	8.69

	3	3	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	3	P01008_ANT3_HUMAN	SERPINC1	52.57	Antithrombin-III	Yes	Yes	5.95
	3	3	P01009_A1AT_HUMAN	SERPINA1	46.71	Alpha-1-antitrypsin	Yes	Yes	5.37
	3	3	P35858_ALS_HUMAN	IGFALS	65.99	Insulin-like growth factor-binding protein complex acid labile subunit	Yes	No	6.13
	2	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	2	2	P32119_PRDX2_HUMAN	PRDX2	21.88	Peroxiredoxin-2	No	Yes	5.67
	2	2	P04406_G3P_HUMAN	GAPDH	36.03	Glyceraldehyde-3-phosphate dehydrogenase	No	Yes	8.58
	2	2	Q14624_ITIH4_HUMAN	ITIH4	103.29	Inter-alpha-trypsin inhibitor heavy chain H4	Yes	No	5.92
	2	2	P01834_IGKC_HUMAN	IGKC	11.6	Ig kappa chain C region	No	No	5.58
	2	2	P01857_IGHG1_HUMAN	IGHG1	36.08	Ig gamma-1 chain C region	Yes	No	8.46
	2	2	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48
	2	2	P68104_EF1A1_HUMAN	EEF1A1	50.11	Elongation factor 1-alpha 1	No	Yes	9.1
	2	2	Q06830_PRDX1_HUMAN	PRDX1	22.1	Peroxiredoxin-1	No	Yes	8.27
	2	2	P25311_ZA2G_HUMAN	AZGP1	34.24	Zinc-alpha-2-glycoprotein	Yes	No	5.58
	2	2	P01042_KNG1_HUMAN	KNG1	71.91	Kininogen-1	Yes	Yes	6.23
	2	2	O95969_SG1D2_HUMAN	SCGB1D2	9.92	Secretoglobin family 1D member 2	No	No	8.58
	2	2	P05546_HEP2_HUMAN	SERPIND1	57.03	Heparin cofactor 2	Yes	Yes	6.26
Band M (121 kDa)									
	14	17	P01024_CO3_HUMAN	C3	187.03	Complement C3	Yes	Yes	6.02
	4	7	P08123_CO1A2_HUMAN	COL1A2	129.24	Collagen alpha-2(I) chain	Yes	No	10.05
	4	4	P00751_CFB_HUMAN	CFB	85.48	Complement factor B	Yes	Yes	6.66
	3	3	P07355_ANXA2_HUMAN	ANXA2	38.58	Annexin A2	No	Yes	7.56
	3	3	P62736_ACTA_HUMAN	ACTA2	41.98	Actin, aortic smooth muscle	No	No	5.24
	3	3	P04040_CATA_HUMAN	CAT	59.72	Catalase	No	Yes	6.9
	3	3	P19823_ITIH2_HUMAN	ITIH2	106.4	Inter-alpha-trypsin inhibitor heavy chain H2	Yes	Yes	5.75
	3	3	P06396_GELS_HUMAN	GSN	85.64	Gelsolin	No	Yes	5.72
	2	3	P19827_ITIH1_HUMAN	ITIH1	101.33	Inter-alpha-trypsin inhibitor heavy chain H1	Yes	Yes	6.33
	2	3	Q15517_CDSN_HUMAN	CDSN	51.49	Corneodesmosin	Yes	No	8.48

	2	2	P60709_ACTB_HUMAN	ACTB	41.71	Actin, cytoplasmic 1	No	No	5.29
	2	2	P14618_KPYM_HUMAN	PKM	57.9	Pyruvate kinase PKM	No	Yes	7.96
	2	2	P04083_ANXA1_HUMAN	ANXA1	38.69	Annexin A1	No	Yes	10.05
	2	2	P02452_CO1A1_HUMAN	COL1A1	138.86	Collagen alpha-1(I) chain	Yes	Yes	9.29
Band N (140-250 kDa)									
	2	3	P19827_ITIH1_HUMAN	ITIH1	101.33	Inter-alpha-trypsin inhibitor heavy chain H1	Yes	Yes	6.33
	2	3	Q6UWP8_SBSN_HUMAN	SBSN	60.5	Suprabasin	No	No	6.45
	2	2	P19823_ITIH2_HUMAN	ITIH2	106.4	Inter-alpha-trypsin inhibitor heavy chain H2	Yes	Yes	5.75