

Supplemental Table S1a: proteins found over-expressed with both instruments (A: LTQ-OT MS, B: MALDI TOF-TOF)

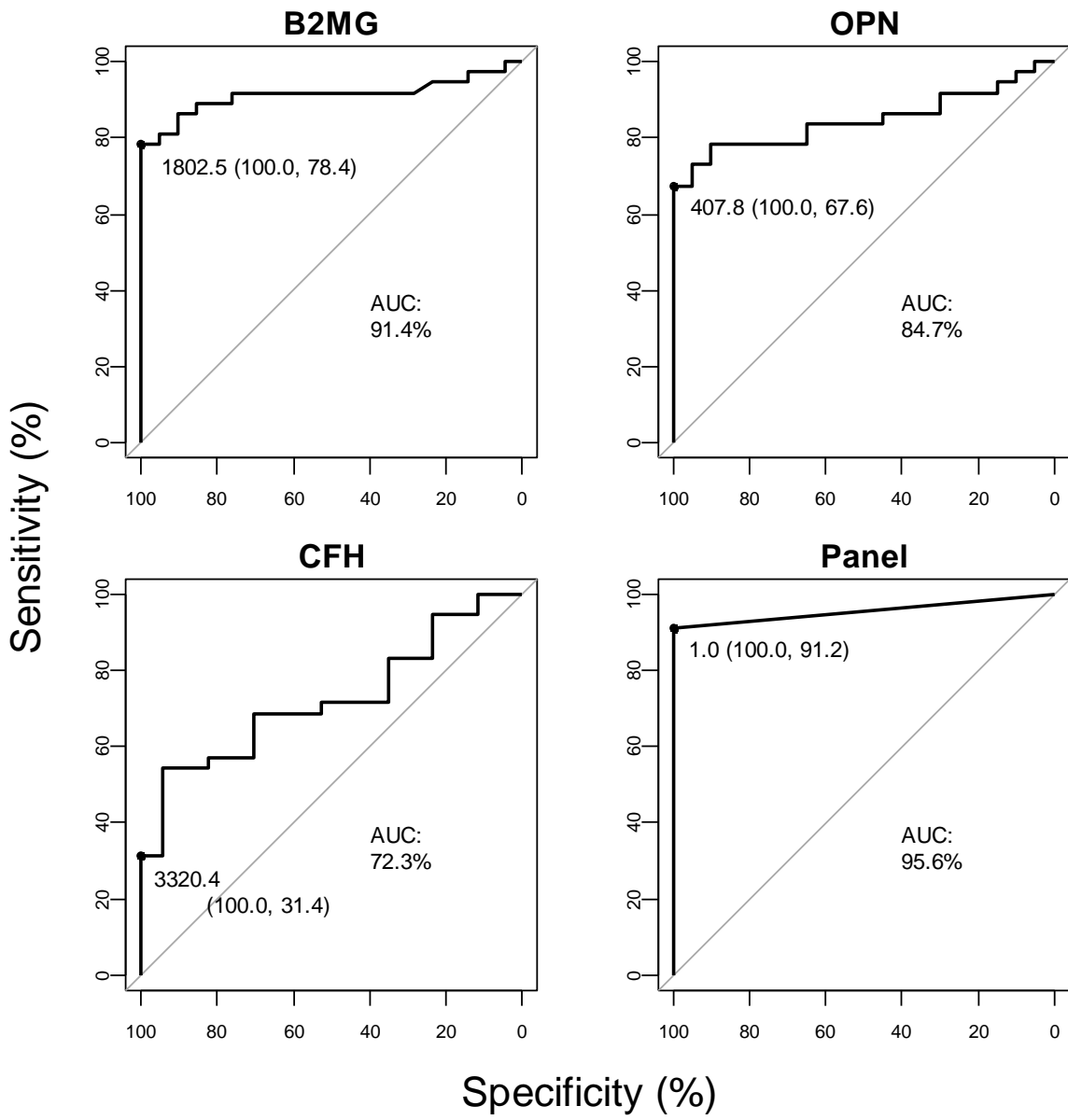
DB entry	Description		# Unique peptides	# Pept. matches	# Peptides quantifiable	Ratio	SD	CV (%)
P04217	Alpha-1B-glycoprotein	A	5	38	14	2.06	0.17	8.37
		B	6	9	7	1.99	0.19	9.80
P02750	Leucine-rich alpha-2-glycoprotein (LRG)	A	3	11	11	2.64	1.22	46.29
		B	4	4	4	1.76	0.54	30.56
P43652	Afamin (Alpha-Alb)	A	4	9	5	2.72	0.21	7.91
		B	4	4	4	2.00	0.35	17.71
P01008	Antithrombin-III (ATIII)	A	12	69	46	2.00	0.16	8.12
		B	10	16	15	2.04	0.27	13.05
P06727	Apolipoprotein A-IV (Apo-AIV) (ApoA-IV)	A	15	48	33	2.14	0.27	12.70
		B	14	18	13	2.13	0.13	6.32
P61769	Beta-2-microglobulin form pI 5.3	A	3	36	11	6.33	1.78	28.21
		B	3	4	3	4.90	1.98	40.37
P02745	Complement C1q subcomponent subunit A	A	3	12	10	5.51	0.47	8.52
		B	2	2	2	3.52	2.56	72.75
P08571	Monocyte differentiation antigen CD14,	A	4	23	14	3.85	0.80	20.77
		B	4	4	4	4.02	0.69	17.10
P00450	Ceruleplasmin	A	16	133	73	1.92	0.26	13.39
		B	24	42	40	1.99	0.27	13.40
P00751	Complement factor B Bb fragment	A	11	36	28	1.81	0.24	13.20
		B	12	13	11	1.82	0.11	5.87
P08603	Complement factor H	A	11	43	27	1.93	0.22	11.19
		B	14	14	13	1.97	0.30	15.18
P36222	Chitinase-3-like protein 1 (CGP-39) (GP-39)	A	4	9	5	2.73	1.03	37.71
		B	7	9	9	4.25	1.21	28.39
P06681	Complement C2a fragment	A	7	34	26	4.84	1.48	30.53
		B	3	6	6	2.79	1.44	51.68
P01024	Complement C3c alpha' chain fragment 2	A	23	78	56	2.89	0.65	22.53
		B	16	17	15	2.56	0.41	15.94
P10643	Complement component C7	A	9	20	8	2.19	0.33	15.13
		B	8	9	6	2.55	0.11	4.23
P08637	Low affinity immunoglobulin gamma Fc region receptor III-A	A	3	9	7	5.06	0.83	16.31
		B	2	2	2	3.25	0.61	18.81
Q9Y6R7	IgGFc-binding protein (FcgammaBP)	A	21	99	74	9.13	4.33	47.47
		B	24	39	31	4.80	2.14	44.55
P02765	Alpha-2-HS-glycoprotein chain A	A	4	15	14	4.35	1.62	37.17
		B	5	6	6	4.29	1.60	37.28
P02751	Ugl-Y3 [ISOFORM 14]	A	6	23	15	1.93	0.27	14.00
		B	8	9	7	2.08	0.09	4.41
P05155	Plasma protease C1 inhibitor (C1 Inh)	A	9	66	55	2.15	0.55	25.44
		B	6	8	7	2.24	0.33	14.84
P01871	Ig mu chain C region	A	11	104	8	3.41	1.49	43.59
		B	14	25	15	7.46	4.65	62.31
P01834	Ig kappa chain C region	A	6	27	1	16.96	n/a	n/a
		B	4	6	2	11.48	2.36	20.60
P19823	Inter-alpha-trypsin inhibitor heavy chain H2	A	2	4	1	2.59	n/a	n/a
		B	2	2	2	2.26	0.08	3.44
P01042	Low molecular weight growth-promoting factor	A	7	17	12	1.87	0.23	12.40
		B	5	8	7	2.26	0.22	9.73
P51884	Lumican (KSPG lumican)	A	5	13	11	1.83	0.37	20.15
		B	3	4	4	1.73	0.12	7.10
Q96PD5	N-acetylmuramoyl-L-alanine amidase	A	2	4	1	2.20	n/a	n/a
		B	2	2	2	2.78	0.22	7.94
P00747	Plasmin light chain B	A	6	14	10	2.31	0.52	22.34
		B	8	9	9	2.28	0.44	19.21
P05543	Thyroxine-binding globulin	A	2	9	8	2.43	0.33	13.43
		B	2	2	2	2.29	0.13	5.63
P25311	Zinc-alpha-2-glycoprotein (Zn-alpha-2-GP)	A	3	4	4	1.82	0.24	13.02
		B	3	3	3	2.25	0.22	10.02

Supplemental Table S1b: proteins found over-expressed with LTQ-OT MS

DB entry	Description	# Unique peptides	# Pept. matches	# Peptides quantifiable	Ratio	SD	CV (%)
P02647	Apolipoprotein A-I(1-242)	3	10	6	2.99	0.29	9.62
P00734	Thrombin heavy chain	3	8	5	2.54	0.41	16.22
O00584	Ribonuclease T2	3	6	6	2.33	0.32	13.86
Q9Y279	V-set and immunoglobulin domain-containing protein 4	2	3	2	2.20	0.49	22.43
P02652	Apolipoprotein A-II(1-76)	4	9	5	2.18	0.28	13.00
P05156	Complement factor I light chain	3	11	10	2.00	0.24	11.77
P55058	Phospholipid transfer protein	2	6	5	1.83	0.08	4.40
P09871	Complement C1s subcomponent light chain	3	6	4	1.80	0.58	32.07

Supplemental Table S1c: proteins found over-expressed with MALDI TOF-TOF MS

DB entry	Description	# Unique peptides	# Pept. matches	# Peptides quantifiable	Ratio	SD	CV (%)
P02765	Alpha-2-HS-glycoprotein	5	5	5	4.05	1.58	38.93
P10451	Osteopontin (SPP-1)	2	2	2	3.64	0.28	7.70
P04196	Histidine-rich glycoprotein (HPRG)	3	5	5	2.68	0.49	18.20
P00734	Prothrombin	6	6	6	2.54	0.66	26.09
P63267	Actin, gamma-enteric smooth muscle	2	2	2	2.44	0.00	0.08
P62988	Ubiquitin	2	2	2	2.27	0.26	11.34
P02766	Transthyretin	2	3	3	2.20	0.11	4.94
P01011	Alpha-1-antichymotrypsin His-Pro-less	7	9	9	2.11	0.72	34.05
P05156	Complement factor I	3	3	3	1.99	0.24	11.87
P08253	72 kDa type IV collagenase (MMP-2)	2	2	2	1.92	0.06	2.87
Q08380	Galectin-3-binding protein (Mac-2 BP) (MAC2BP)	2	4	4	1.90	0.34	17.64
P98160	Basement membrane-specific heparan sulfate proteoglycan core protein (HSPG) (PLC)	2	2	2	1.84	0.16	8.81
Q15113	Procollagen C-endopeptidase enhancer 1	4	4	4	1.84	0.32	17.61
P61626	Lysozyme C	2	4	4	1.80	0.85	47.37
P07333	Macrophage colony-stimulating factor 1 receptor	2	2	2	1.79	0.16	8.75
Q02246	Contactin-2 (TAX-1)	2	2	2	1.78	0.49	27.27
P02749	Beta-2-glycoprotein 1 (Beta(2)GPI) (B2GPI) (Apo-H)	3	5	5	1.77	0.26	14.99
Q24JP5	Transmembrane protein 132A	3	3	3	1.76	0.26	14.59
P24592	Insulin-like growth factor-binding protein 6 (IGF-binding protein 6) (IGFBP-6) (IBP-6)	2	4	4	1.69	0.19	11.30
P02774	Vitamin D-binding protein (DBP) (VDB)	14	18	15	1.68	0.20	11.89
P08697	Alpha-2-antiplasmin (Alpha-2-AP) (Alpha-2-PI)	3	5	5	1.67	0.19	11.43
P16870	Carboxypeptidase E (CPE) (CPH)	2	2	2	1.66	0.65	39.08



Supplemental Figure S1: ROC curves for B2MG, OPN, CFH, and the panel composed of B2MG and OPN

Cut-off values for each molecule [ng/ml] and for the panel are reported as a point with the corresponding numeric value on each ROC curve. Percentage sensitivity set for 100% specificity is reported in brackets on each graph. Area under the ROC curve (AUC) is also given.

Supplemental Table S2: Detailed results for the three molecules tested in respect with the stage of the disease

Markers	Stage 1 ^a	Stage 2 ^b	Mann-Whitney U test	Correlation with WBC	ROC curve		
	Median (range)	Median (range)	p value	Spearman rho	% AUC	Cut-off [ng/ml]	Sensitivity, % (95% CI) ^c
B2MG	670 (90 – 1690)	3690 (160 – 15400)	< 0.0001	0.725	92	> 1805	78 (62 – 90)
OPN	179.3 (12.7 – 378.8)	686.1 (13.9 – 4336)	< 0.0001	0.723	85	> 407.9	68 (50 – 82)
CFH	1662 (210.2 – 3215)	2505 (305.7 – 15830)	0.0101	0.562	73	> 3320	31 (17 – 49)

^a Stage 1: Absence of parasite and ≤ 5 WBC/ μ l in CSF.

^b Stage 2: Presence of parasite and/or >5 WBC/ μ l in CSF.

^c Sensitivity was set for a specificity of 100% (95% CI, 84-100).