

Table S1. Total protein concentration for lectin-enriched sample pools as determined by bicinchoninic acid (BCA) UV assay.

Group	Trial 1	Trial 2	Trial 3	Conc. (mg/mL)	Std. Dev. (mg/mL)	CV (%)
Esophageal Adenocarcinoma	1.25	1.34	1.31	1.30	0.05	3.61
High Grade Dysplasia	1.77	1.79	1.82	1.79	0.03	1.40
Disease Free	1.16	1.18	1.17	1.17	0.01	0.82

Table S2. Quantified glycoproteins and CVs for triplicate LC-MS/MS measurements.

<u>Protein Description</u>	<u>Disease Free (DF)</u>		<u>High Grade Dysplasia (HGD)</u>		<u>Esophageal Adenocarcinoma (EAC)</u>	
	<u>Protein Signal</u>	<u>CV (%)</u>	<u>Protein Signal</u>	<u>CV (%)</u>	<u>Protein Signal</u>	<u>CV (%)</u>
14-3-3 protein theta	3.30E-03	29.96	3.93E-03	7.34	1.75E-03	32.88
Alpha-1-acid glycoprotein 1	2.96E-01	0.43	1.70E-01	1.24	4.08E-01	2.29
Alpha-1-antitrypsin	6.30E-02	0.13	7.26E-02	1.37	7.69E-02	1.89
Alpha-1B-glycoprotein	1.49E-01	1.57	1.67E-01	0.80	1.81E-01	1.26
Alpha-2-antiplasmin	2.60E-02	4.23	3.32E-02	12.15	2.29E-02	1.96
Leucine-rich alpha-2-glycoprotein	9.60E-03	4.35	7.27E-03	1.67	1.01E-02	1.49
Alpha-2-macroglobulin	4.67E-01	0.24	5.31E-01	1.53	6.01E-01	0.55
Alpha-1-antichymotrypsin	4.69E-01	0.47	2.56E-01	1.71	3.11E-01	2.36
Actin	5.79E-03	2.47	5.19E-03	7.88	1.14E-02	2.31
Afamin	6.70E-02	1.08	8.35E-02	1.22	6.59E-02	0.42
Insulin-like growth factor-binding protein complex acid labile chain	1.70E-02	2.69	1.25E-02	1.99	1.28E-02	2.99
Alpha-1 microglycoprotein	6.33E-02	0.85	7.31E-02	3.90	9.56E-02	2.31
Angiotensinogen	2.72E-02	0.24	2.26E-02	7.13	3.04E-02	1.22

Antithrombin-III	3.58E-01	0.74	2.79E-01	0.15	2.94E-01	0.50
Apolipoprotein A-I	1.13E+00	0.19	1.26E+00	0.11	1.21E+00	0.20
Apolipoprotein A-II	8.40E-02	4.28	5.73E-02	0.78	8.70E-02	1.65
Apolipoprotein A-IV	1.60E-01	0.67	1.38E-01	0.91	1.39E-01	0.95
Apolipoprotein B-100	4.76E-03	2.27	4.84E-03	8.16	3.38E-03	4.27
Apolipoprotein C-I	2.92E-02	0.30	3.73E-02	1.97	4.19E-02	0.43
Apolipoprotein C-II	2.02E-02	1.36	1.62E-02	1.54	2.10E-02	1.47
Apolipoprotein C-III	4.25E-02	0.71	3.20E-02	0.79	5.65E-02	1.04
Apolipoprotein D	4.03E-02	1.24	3.82E-02	0.89	4.32E-02	2.65
Apolipoprotein E	2.48E-02	1.55	3.16E-02	0.98	2.45E-02	2.58
Beta-2-glycoprotein 1	1.13E-01	0.99	2.23E-01	0.54	2.63E-01	0.64
Apolipoprotein L1	8.14E-03	2.69	5.44E-03	5.12	6.61E-03	4.72
Apolipoprotein M	2.35E-02	4.44	1.33E-02	2.26	2.03E-02	5.85
Attractin	5.75E-03	0.36	5.22E-03	2.04	7.59E-03	0.68
Beta-2-microglobulin	6.77E-03	5.85	4.12E-03	1.34	5.26E-03	3.40
Complement C1q subcomponent subunit B	3.56E-02	0.95	4.19E-02	0.99	4.29E-02	1.24
Complement C1q subcomponent subunit C	1.63E-03	3.73	1.71E-03	2.26	1.75E-03	4.74

Complement C1r subcomponent	3.98E-02	0.60	4.07E-02	0.70	3.08E-02	1.53
Complement C1s subcomponent	3.62E-02	1.32	5.51E-02	1.10	6.66E-02	1.27
C4b-binding protein alpha chain	3.07E-01	0.35	3.10E-01	0.86	2.99E-01	0.51
C4b-binding protein beta chain	1.13E-02	1.54	1.53E-02	2.21	1.48E-02	0.85
Uncharacterized protein C1orf83	7.27E-03	0.89	6.05E-03	4.75	5.33E-03	1.28
Corticosteroid-binding globulin	2.83E-03	9.77	2.65E-03	2.54	1.80E-03	5.10
CD5 antigen-like	1.09E-03	27.76	1.29E-03	20.01	5.93E-04	31.19
Cytidine and dCMP deaminase domain-containing protein 1	2.06E-04	9.88	3.92E-04	3.94	3.08E-04	4.45
Ceruloplasmin	3.91E-01	2.18	4.64E-01	2.24	3.88E-01	0.62
Glycine-rich beta glycoprotein	9.26E-02	2.59	7.33E-02	1.82	7.72E-02	2.49
Complement factor H	4.08E-01	0.55	4.73E-01	0.08	3.88E-01	1.65
Complement factor I	7.10E-02	1.16	5.43E-02	3.47	5.04E-02	0.44
Clusterin	6.93E-02	3.39	6.71E-02	1.06	7.61E-02	0.74
Centrobin	7.35E-03	1.57	1.17E-02	4.53	1.80E-03	2.30
Collagen alpha-1(I) chain	2.40E-03	2.21	5.13E-03	2.19	9.00E-03	0.92
Complement C3	1.10E+00	1.30	1.15E+00	0.40	1.38E+00	0.30
Complement C4-A	2.37E-01	1.62	2.64E-01	1.77	2.48E-01	0.43

Complement C4-B	2.73E-01	0.81	2.92E-01	1.90	3.01E-01	0.87
Complement C5	2.31E-02	9.75	2.88E-02	2.58	3.03E-02	2.97
Complement component C6	1.20E-01	1.31	1.21E-01	0.93	1.30E-01	0.55
Complement component C7	4.21E-02	2.68	3.38E-02	1.32	4.69E-02	1.74
Complement component C8 alpha chain	1.07E-01	3.20	1.14E-01	0.64	8.14E-02	1.92
Complement component C8 beta chain	9.58E-02	0.71	1.09E-01	1.96	1.01E-01	0.45
Complement component C8 gamma chain	3.09E-02	1.99	3.66E-02	2.26	3.42E-02	2.91
Complement component C9	1.77E-01	0.66	1.74E-01	0.67	1.79E-01	0.38
Cullin-7	2.26E-03	8.09	7.59E-04	2.57	1.25E-03	2.95
Cystatin-C	3.40E-02	2.21	4.27E-02	1.65	3.79E-02	1.35
Dermcidin	1.22E-02	2.35	1.68E-02	1.28	8.78E-03	3.63
Docking protein 3	9.88E-04	5.98	1.45E-03	12.13	1.45E-03	0.68
Dual specificity protein phosphatase 14	5.39E-04	22.42	7.09E-04	18.30	5.25E-04	25.13
Dynein heavy chain 10, axonemal	1.67E-03	9.16	3.48E-04	5.85	3.19E-03	5.30
Extracellular matrix protein 1	2.31E-02	5.11	1.18E-02	4.13	1.82E-02	3.84
EMILIN-2	7.81E-03	0.28	1.59E-02	1.60	2.00E-02	2.15
Coagulation factor XII	4.71E-02	1.03	4.97E-02	1.22	4.61E-02	2.65

Fetuin-A	1.48E-01	1.58	2.31E-01	0.47	1.41E-01	1.85
Fetuin-B	1.41E-03	24.86	1.93E-03	12.89	3.39E-03	9.27
Complement factor H-related protein 1	7.17E-02	0.33	7.70E-02	1.08	6.78E-02	2.52
Complement factor H-related protein 2	3.15E-02	0.58	2.62E-02	1.22	2.42E-02	2.04
Fibronectin	6.41E-02	0.87	4.09E-02	1.55	5.22E-02	2.91
Far upstream element-binding protein 3	1.54E-02	1.84	1.01E-02	5.09	9.64E-03	2.59
Gelsolin	7.84E-02	1.65	7.86E-02	1.16	8.17E-02	1.70
Glutathione peroxidase 3	3.38E-02	1.77	1.21E-02	1.44	2.80E-02	0.61
Histone H2A type 1	8.37E-03	5.82	3.79E-03	7.38	8.00E-03	2.48
Histone H2B type 2-F	1.37E-01	4.57	5.89E-02	3.80	4.70E-02	10.27
Histone H4	3.03E-02	0.82	1.11E-02	1.79	2.43E-02	1.04
Hemoglobin subunit alpha	3.50E-02	2.14	3.24E-02	1.75	2.49E-02	9.96
Hemoglobin subunit beta	4.66E-02	0.61	7.82E-02	1.04	4.58E-02	2.95
Hemoglobin subunit gamma-1	1.27E-03	27.76	4.23E-03	5.59	1.33E-03	2.40
Beta-1B-glycoprotein	8.04E-01	1.14	9.08E-01	0.47	8.39E-01	0.25
Heparin cofactor 2	4.17E-02	1.28	4.21E-02	1.04	5.52E-02	0.92
Helicase-like transcription factor	2.26E-03	8.09	7.59E-04	2.57	1.25E-03	2.95

Haptoglobin-related protein	9.42E-03	2.46	8.94E-03	1.33	8.68E-03	0.87
Histidine-rich glycoprotein	4.40E-02	1.91	4.56E-02	2.20	3.09E-02	1.80
Ig heavy chain V-III region BRO	2.32E-03	3.03	2.74E-03	8.46	2.84E-03	1.81
Plasma protease C1 inhibitor	1.22E-03	5.80	1.19E-03	9.41	1.42E-03	0.94
Ig alpha-1 chain C region	7.95E-02	1.36	6.06E-02	1.44	6.27E-02	0.90
Ig delta chain C region	4.23E-03	2.57	4.76E-03	3.58	2.97E-03	6.21
Ig gamma-1 chain C region	1.01E-01	0.38	1.20E-01	3.85	1.12E-01	0.56
Ig gamma-2 chain C region	7.82E-02	1.80	5.72E-02	0.55	6.59E-02	0.62
Ig gamma-3 chain C region	6.42E-02	0.24	6.71E-02	1.70	6.82E-02	0.38
Ig gamma-4 chain C region	4.18E-02	0.68	4.69E-02	1.54	4.69E-02	0.92
Ig mu chain C region	1.90E-01	0.31	1.29E-01	2.49	1.92E-01	0.60
Immunoglobulin J chain	9.19E-03	3.20	3.41E-03	3.31	2.93E-03	5.02
Ig kappa chain C region	9.63E-02	1.09	1.12E-01	0.72	1.22E-01	1.09
Inter-alpha-trypsin inhibitor heavy chain H1	9.38E-02	0.94	6.47E-02	1.52	8.35E-02	0.88
Inter-alpha-trypsin inhibitor heavy chain H2	2.47E-01	1.11	2.77E-01	1.46	2.10E-01	0.85
Inter-alpha-trypsin inhibitor heavy chain H4	2.73E-01	0.04	2.29E-01	0.54	2.38E-01	0.52
Kynurenine--oxoglutarate transaminase 3	3.40E-03	1.86	7.41E-03	2.68	7.45E-03	5.13

Creatine kinase M-type	4.42E-03	4.97	5.61E-03	3.35	4.57E-03	4.94
Plasma kallikrein	6.45E-02	0.62	7.48E-02	3.55	7.57E-02	0.27
Kininogen-1	1.56E-01	0.84	1.16E-01	1.23	1.47E-01	0.14
Ig kappa chain V-I region AG	2.25E-03	1.86	2.69E-03	11.27	2.13E-03	3.33
Ig kappa chain V-I region DEE	4.58E-03	2.24	5.98E-03	13.52	4.56E-03	3.42
Ig kappa chain V-I region Gal	2.25E-03	1.86	2.69E-03	11.27	2.13E-03	3.33
Ig kappa chain V-I region Rei	2.25E-03	1.86	2.69E-03	11.27	2.13E-03	3.33
Ig kappa chain V-II region Cum	8.70E-03	1.84	1.47E-02	1.07	9.70E-03	1.14
Ig kappa chain V-II region GM607	8.70E-03	1.84	1.47E-02	1.07	9.70E-03	1.14
Ig kappa chain V-II region RPMI 6410	8.70E-03	1.84	1.47E-02	1.07	9.70E-03	1.14
Ig kappa chain V-III region B6	1.31E-02	1.49	1.45E-02	2.99	2.79E-02	3.24
Ig kappa chain V-III region SIE/GOL	1.03E-02	0.97	8.91E-03	2.99	2.01E-02	2.36
Ig kappa chain V-IV region Len	6.43E-02	0.15	5.74E-02	1.65	8.08E-02	1.09
Ig lambda chain C regions	4.21E-02	3.05	2.99E-02	2.25	4.79E-02	3.75
Keratan sulfate proteoglycan lumican	3.23E-03	0.98	3.43E-03	14.75	2.81E-03	4.03
Lysozyme C	1.20E-01	0.16	1.30E-01	0.69	1.28E-01	0.69
Myosin-2	4.82E-02	1.06	4.76E-02	0.83	4.83E-02	1.24

Myosin-6	2.03E-02	1.71	2.23E-02	0.61	2.55E-02	1.46
Myosin-7	3.67E-02	1.51	4.19E-02	1.13	5.54E-02	0.66
Pigment epithelium-derived factor	1.63E-02	2.94	1.15E-02	2.05	1.61E-02	0.80
Platelet factor 4 variant	3.48E-01	3.01	1.46E-01	6.99	1.03E-01	11.73
Peptidoglycan recognition protein 2	9.24E-02	1.29	2.29E-01	4.89	2.22E-02	2.15
Platelet factor 4	3.53E-01	2.26	1.47E-01	4.44	9.57E-02	13.98
Plasminogen	2.12E-01	0.86	2.06E-01	0.48	1.90E-01	0.69
Serum paraoxonase/arylesterase 1	4.36E-02	1.72	3.54E-02	0.94	4.13E-02	2.20
Vitamin K-dependent protein C	1.71E-02	2.58	2.01E-02	2.43	2.34E-02	1.65
Vitamin K-dependent protein S	4.61E-03	1.17	2.52E-03	3.75	4.66E-03	2.36
Parotid proline-rich protein 1/2	6.72E-05	16.19	3.61E-05	25.59	2.12E-04	1.76
Retinol-binding protein 4	1.47E-01	1.16	1.79E-01	1.12	1.31E-01	0.57
Serum amyloid A protein	7.33E-03	1.77	8.67E-03	1.64	8.25E-03	2.80
Serum amyloid A-4 protein	1.15E-02	8.05	1.42E-02	5.86	1.16E-02	5.32
9.5S alpha-1-glycoprotein	7.00E-02	1.74	4.79E-02	1.08	7.27E-02	1.00
Protein transport protein Sec16A	4.92E-02	0.97	1.41E-01	7.95	4.57E-03	3.62
Semenogelin-1	3.51E-02	1.57	2.77E-02	2.69	2.70E-02	0.62

Semenogelin-2	3.44E-02	1.27	3.28E-02	0.75	3.11E-02	0.65
Selenoprotein P	9.92E-03	6.18	9.53E-03	3.01	1.37E-02	0.40
Sex hormone-binding globulin	6.65E-04	1.32	5.35E-04	17.92	8.64E-04	7.86
Tetranectin	3.06E-02	0.79	3.49E-02	0.42	4.59E-02	7.30
Thyroxine-binding globulin	1.20E-02	3.44	1.17E-02	0.62	1.38E-02	1.08
Thioredoxin	1.89E-03	4.56	1.81E-03	25.28	2.18E-03	2.22
Prothrombin	9.52E-02	2.01	1.18E-01	1.39	7.97E-02	0.83
Tropomyosin beta chain	1.09E-02	1.63	5.02E-03	3.43	4.73E-03	0.06
Transthyretin	1.25E-01	0.62	1.29E-01	1.20	1.29E-01	1.01
Ubiquitin	5.33E-03	2.22	5.92E-03	2.69	6.67E-03	3.46
Vitamin D-binding protein	4.85E-01	0.68	4.78E-01	0.60	4.78E-01	0.45
Vitronectin	1.17E-01	0.44	1.11E-01	1.05	8.46E-02	1.63
Zinc-alpha-2-glycoprotein	5.10E-02	0.20	4.96E-02	0.81	4.04E-02	0.70