Supplementary Table 3: Quantification of proteins in UPS2 matched with UPS1. UPS1 and UPS2 were analyzed in triplicate runs. Identifications were transferred between the runs based on the exact and retentions times. Intensities were normalized in MaxQuant for label-free quantification. Analysis was performed against the complete human database.

Protein Names	Uniprot	Amount (fmol-UPS2)	UPS1		UPS2	
			Intensity ($x10^{7}$)	# Peptides	Intensity ($x10^{7}$)	# Peptides
CAH- 2	P00918	1400	2E+01	12	1E+02	12
CAH-1	P00915	1400	1E+01	11	8E+01	11
Complement C5	P01031	1400	2E+00	3	2E+01	3
Hemoglobin-a	P69905	1400	3E+00	6	3E+01	7
Hemoglobin-b	P68871	1400	7E+00	9	5E+01	9
Leptin	P41159	1400	1E+01	7	8E+01	8
Serum albumin	P02768	1400	4E+01	33	3E+02	33
Ubiquitin	P62988	1400	5E+00	3	4E+01	3
Catalase	P04040	140	3E+01	21	3E+01	20
Cyt-b5	P00167	140	9E+00	5	1E+01	5
Myoglobin	P02144	140	8E+00	5	8E+00	5
NQO1	P15559	140	5E+00	4	4E+00	4
Peroxiredoxin1	Q0683	140	1E+01	9	2E+01	9
PPIA	P62937	140	7E+00	5	8E+00	5
SUMO1	P63165	140	2E+00	3	1E+00	3
CK-M	P06732	14	2E+01	13	2E+00	11
HARS	P12081	14	2E+01	17	2E+00	16
Lactalbumin	P00709	14	3E+00	2	4E-01	2
Lysozyme C	P61626	14	3E+00	3	3E-01	3
NEDD8	Q15843	14	5E+00	3	1E-01	3
NQO2	P16083	14	1E+01	7	1E+00	6
RETbp-4	P02753	14	2E+00	3	3E-01	3
UBC9	P63279	14	2E+00	2	3E-01	2
Antithrombin-III	P01008	1.4	2E+01	10	1E-01	8
BID	P55957	1.4	8E+00	7	3E-02	2
GST- A1	P08263	1.4	3E+00	2	2E-02	2
IGF-2	P01344	1.4	3E+00	2	2E-02	2
Microglobulin-b2	P61769	1.4	1E+01	3	9E-02	2
Synuclein-g	O76070	1.4	1E+01	7	9E-02	6
Thioredoxin	P10599	1.4	1E-02	1		
Cyt-C	P99999	0.14	2E+00	2		
Gelsolin	P06396	0.14	1E+01	12	2E-02	4
GST- P	P09211	0.14	7E+00	7	3E-03	3

H-Ras	P01112	0.14	7E+00	9		
IFN-g	P01579	0.14	3E+00	4		
Serotransferrin	P02787	0.14	2E+01	26	1E-02	2
UB2E1	P51965	0.14	1E-02	1		
UBE2C	O00762	0.14	1E+01	8		1
Annexin A5	P08758	0.014	1E+01	8		
CRP	P02741	0.014	3E+00	5		1
FABP3	P05413	0.014	7E+00	5		
Lactotransferrin	P02788	0.014	3E+01	29		
SOD1	P00441	0.014	5E+00	5		
Tau	P10636	0.014	2E+01	13		
TNF alpha	P01375	0.014	8E+00	6		