

Supplementary Data n°4 : Overlap between human PIPs identified by us and the most recent surveys on human PIPs interaction data obtained by TAP strategies followed by systematic MS identification of proteins (1, 2)

Common proteins (48 proteins):

Our accession #^a	Accession # (1, 2)	Name
Related to the UPP (47 proteins)		
P60900	P60900	Proteasome subunit alpha type 6 (α 1)
P25787	P25787	Proteasome subunit alpha type 2 (α 2)
P25789	P25789	Proteasome subunit alpha type 4 (α 3)
O14818	O14818	Proteasome subunit alpha type 7 (α 4)
P28066	P28066	Proteasome subunit alpha type 5 (α 5)
P25786	P25786	Proteasome subunit alpha type 1 (α 6)
P25788	P25788	Proteasome subunit alpha type 3 (α 7)
P28072	P28072	Proteasome subunit beta type 6 precursor (β 1)
Q99436	Q99436	Proteasome subunit beta type 7 precursor (β 2)
P49720	P49720	Proteasome subunit beta type 3 (β 3)
P49721	P49721	Proteasome subunit beta type 2 (β 4)
P28074	P28074	Proteasome subunit beta type 5 precursor (β 5)
P20618	P20618	Proteasome subunit beta type 1 precursor (β 6)
P28070	P28070	Proteasome subunit beta type 4 precursor (β 7)
P35998	P35998	26S protease regulatory subunit 7 (Rpt1)
P62191	P62191	26S protease regulatory subunit 4 (Rpt2)
P43686	P43686	26S protease regulatory subunit 6B (Rpt3)
P62333	P62333	26S protease regulatory subunit S10B (Rpt4)
P17980	P17980	26S protease regulatory subunit 6A (Rpt5)
P62195	P62195	26S protease regulatory subunit 8 (Rpt6)
Q13200	Q13200	26S proteasome non-ATPase regulatory subunit 2 (Rpn1)
Q99460	Q99460	26S proteasome non-ATPase regulatory subunit 1 (Rpn2)
O43242	O43242	26S proteasome non-ATPase regulatory subunit 3 (Rpn3)
O00232	O00232	26S proteasome non-ATPase regulatory subunit 12 (Rpn5)
O00231	O00231	26S proteasome non-ATPase regulatory subunit 11 (Rpn6)
Q15008	Q15008	26S proteasome non-ATPase regulatory subunit 6 (Rpn7)
P51665	P51665	26S proteasome non-ATPase regulatory subunit 7 (Rpn8)
Q9UNM6	Q9UNM6	26S proteasome non-ATPase regulatory subunit 13 (Rpn9)
P55036	P55036	26S proteasome non-ATPase regulatory subunit 4 (Rpn10)
O00487	O00487	26S proteasome non-ATPase regulatory subunit 14 (Rpn11)
P48556	P48556	26S proteasome non-ATPase regulatory subunit 8 (Rpn12)
Q16186	Q16186	Protein ADRM1 (Rpn13)
Q9BRP4	Q9BRP4	Proteasomal ATPase-associated factor 1 (Rpn14)
Q06323	Q06323	Proteasome activator complex subunit 1 (PA28 α)
Q9UL46	Q9UL46	Proteasome activator complex subunit 2 (PA28 β)
Q14997	Q14997	Proteasome activator complex subunit 4 (PA200)
P62988	P62988	Ubiquitin
P54578	P54578	Ubiquitin carboxyl-terminal hydrolase 14
Q9Y5K5	Q5LJA5	Ubiquitin carboxyl-terminal hydrolase isozyme L5
Q15386	Q15386	Ubiquitin-protein ligase E3C
P54727	P54727	UV excision repair protein RAD23 homolog B
P68104	P68104	Translation elongation factor 1 alpha 1
P08107	P08107	Heat shock 70 kDa protein 1
P11142	P11142	Heat shock cognate 71 kDa protein
P08238	P08238	Heat shock protein HSP 90-beta
P49368	P49368	T-complex protein 1 subunit gamma
Q99832	Q53HV2	T-complex protein 1 subunit eta
Not related to the UPP (1 protein)		
P62258	P62258	14-3-3 protein epsilon

^a : for more clarity, the reported member of the protein group is the one that we considered as the most significant according to the functional description given in the UniProt Knowledgebase.

Other studies (1, 2): (44 specific proteins) :

Accession # (1, 2)	Name
Related to the UPP (6 proteins)	
P60896	26S proteasome complex subunit DSS1
O75832	26S proteasome non-ATPase regulatory subunit 10 (Gankyrin)
P61289	Proteasome activator complex subunit 3 (PA28 γ)
Q05086	Ubiquitin-protein ligase E3A
Q9UMX0	Ubiquilin-1
Q5D027	UBQLN2 protein (Ubiquilin 2)
Not related to the UPP (38 proteins)	
P16403	Histone H1.2 (Histone H1d)
Q5JQ12	Adaptor-related protein complex 3, mu 1 subunit
O00203	AP-3 complex subunit beta-1
O14617	AP-3 complex subunit delta-1
Q53XL4	Adaptor-related protein complex 3, sigma 1 subunit
O95831	Programmed cell death protein 8, mitochondrial precursor
P50991	T-complex protein 1 subunit delta (TCP-1-delta)
P78371	T-complex protein 1 subunit beta (TCP-1-beta)
P48643	T-complex protein 1 subunit epsilon (TCP-1-epsilon)
P50990	T-complex protein 1 subunit theta (TCP-1-theta)
P17987	T-complex protein 1 subunit alpha (TCP-1-alpha)
P40227	T-complex protein 1 subunit zeta (TCP-1-zeta)
Q15293	Reticulocalbin-1 precursor
P34931	Heat shock 70 kDa protein 1L (Heat shock 70 kDa protein 1-like)
O43852	Calumenin precursor (Crocabin) (IEF SSP 9302)
P07900	Heat shock protein HSP 90-alpha (HSP 86) (NY-REN-38 antigen)
P10809	60 kDa heat shock protein, mitochondrial precursor (Hsp60)
P07437	Tubulin beta-2 chain
P68363	Tubulin alpha-ubiquitous chain (Alpha-tubulin ubiquitous)
P49411	Elongation factor Tu, mitochondrial precursor (EF-Tu) (P43)
Q71U36	Tubulin alpha-3 chain (Alpha-tubulin 3) (Tubulin B-alpha-1)
P05388	60S acidic ribosomal protein P0 (L10E)
Q00839	Heterogeneous nuclear ribonucleoprotein U (hnRNP U)
P54652	Heat shock-related 70 kDa protein 2
P05141	ADP/ATP translocase 2 (Adenine nucleotide translocator 2) (ANT 2)
Q13263	Transcription intermediary factor 1-beta (TIF1-beta)
P20700	Lamin-B1
Q96IS6	HSPA8 protein (Fragment)
P63104	14-3-3 protein zeta/delta (Protein kinase C inhibitor protein 1)
P12236	ADP/ATP translocase 3 (Adenine nucleotide translocator 2) (ANT 3)
Q8WVY7	Ubiquitin-like domain-containing CTD phosphatase 1
Q14257	Reticulocalbin-2 precursor (Calcium-binding protein ERC-55) (E6-binding protein) (E6BP)
Q9GZP4	AD039 (Novel protein) (HT014) (Thioredoxin family Trp26)
O14654	Insulin receptor substrate 4
P31689	DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4)
Q02978	Mitochondrial 2-oxoglutarate/malate carrier protein (OGCP) (Solute carrier family 25 member 11)
Q53HK5	TATA binding protein interacting protein 49 kDa variant
Q12905	Interleukin enhancer-binding factor 2

1. Wang, X. and Huang, L. (2008) Identifying dynamic interactors of protein complexes by quantitative mass spectrometry. *Mol Cell Proteomics* 7, 46-57
2. Wang, X., Chen, C. F., Baker, P. R., Chen, P. L., Kaiser, P. and Huang, L. (2007) Mass spectrometric characterization of the affinity-purified human 26S proteasome complex. *Biochemistry* 46, 3553-65