

# PROTEOMICS

**Supporting Information  
for Proteomics**

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**WI-PHI: A weighted yeast interactome enriched for  
direct physical interactions**

Listing of MIPS complexes in Figure 3

Complex Number	Complex name
1	Glycine decarboxylase
2	Mitochondrial ribosomes
3	cytoplasmic ribosomal small subunit
4	H <sup>+</sup> -ATPase, plasma mebrane
5	Yme1 protease complex
6	MBF complex
7	1,6-beta-D-glucan synthase
8	TFIIIB
9	Replication initiation complex
10	SWI/SNF transcription activator complex
11	CTP synthetase
12	Chaperonine containing T-complex TRiC (TCP RING Complex)
13	Synaptonemal complex (SC)
14	TFIIF
15	Arp2p/Arp3p complex
16	2-oxoglutarate dehydrogenase
17	RNA polymerase I
18	DNA polymerase delta (III)
19	Cytochrome c oxidase (complex IV)
20	rRNA splicing
21	TRAPP (Transport Protein Particle) complex
22	Prp9p/Prp11p/Prp21p complex
23	eIF2
24	Mitochondrial splicing complexes
25	RSC complex (Remodel the structure of chromatin)
26	Sister chromatid cohesion complex
27	NEF4 complex
28	eRF3
29	NSF-SNAP complex
30	pre mRNA polyadenylation factor PFI
31	Ctf19 protein complex
32	Ku complex
33	eIF3
34	eEF2

35 Farnesyltransferase (FTase)  
36 Mitochondrial processing complexes  
37 cytoplasmic ribosomal large subunit  
38 Telomerase  
39 Mitochondrial translation complexes  
40 Catalase T  
41 DNA ligases  
42 Intracellular transport complexes  
43 Kel1p/Kel2p complex  
44 mitochondrial ribosomal large subunit  
45 Core Factor (CF)  
46 Golgi transport complex  
47 OAF complex  
48 GAL80 complex  
49 PCNA  
50 Sec62-63 complex  
51 F0/F1 ATP synthase (complex V)  
52 Cdc28p complexes  
53 Exosome complex  
54 mitochondrial ribosomal small subunit  
55 DNA polymerase epsilon (II)  
56 eIF2B  
57 HDA complex  
58 Protein N-acetyltransferase  
59 Nem1p-Spo7p complex  
60 DNA polymerase gamma  
61 pre mRNA3'-end processing factor CFII  
62 Signal peptidase  
63 eIF4A  
64 Nuclear splicing complexes/Spliceosome  
65 Prp19p-associated complex  
66 Actin-associated proteins  
67 Cytoplasmic ribosomes  
68 SCF-MET30 complex  
69 m-AAA protease complex  
70 Tubulin-associated proteins

- 71 Pyruvate dehydrogenase
- 72 HDB complex
- 73 cAMP-dependent protein kinase
- 74 Replication factor C complex
- 75 Vps4p ATPase complex (Vps protein complex)
- 76 Arginine-specific carbamoylphosphate synthase
- 77 gamma-tubulin complex
- 78 NSP1-NIC96 complex
- 79 Aut2p/Aut7p complex
- 80 GCR complex
- 81 Tup1/Ssn6 complex
- 82 Upstream Activation Factor (UAF) complex
- 83 eRF1
- 84 DNA polymerase zeta
- 85 pre mRNA3'-end processing factor CFI
- 86 Actins
- 87 RNA polymerase II
- 88 RTG complex
- 89 STE5-MAPK complex
- 90 ER assembly complex
- 91 HPR1 complex
- 92 Pheromone response pathway
- 93 eIF4B
- 94 S-adenosyl-methionine delta-24-sterol-c-methyltransferase
- 95 AP-2 complex
- 96 ER protein-translocation complex (Sec complex)
- 97 RNA processing complexes
- 98 SCF-GRR1 complex
- 99 Oligosaccharyltransferase
- 100 Pyruvate kinase
- 101 TFIIK (CTD kinase)
- 102 v-SNAREs
- 103 Kin28p complex
- 104 Histone deacetylase complexes
- 105 eIF1
- 106 Geranylgeranyltransferase I (GGTase I)

107 Calcineurin B  
108 Replication complex  
109 TIM - transport across the inner membrane  
110 Class C Vps protein complex  
111 SPB associated proteins  
112 SNAREs  
113 SNF1 complex  
114 Ume6/Ime1 complex  
115 RNA polymerase II holoenzyme  
116 COPI  
117 Gim complexes  
118 Vacuolar assembly complex  
119 Exonucleases  
120 Intermediate filaments  
121 CCR4 complex  
122 Tim17p-complex  
123 TAFIIs  
124 Kornberg's mediator (SRB) complex  
125 Ribonucleoside-diphosphate reductase  
126 Vps35/Vps29/Vps26 complex  
127 MSH2/MSH3 complex  
128 Actin-associated motorproteins  
129 NEF1 complex  
130 NAC complex  
131 SCF-CDC4 complex  
132 AP-3 complex  
133 Phenylalanine-tRNA-ligase  
134 Kinesin-related motorproteins  
135 Nuclear processing complexes  
136 Anaphase promoting complex (APC)  
137 NC2 complex  
138 Pho85p complexes  
139 t-SNAREs  
140 TOM - transport across the outer membrane  
141 Isocitrate lyase  
142 Isocitrate dehydrogenase

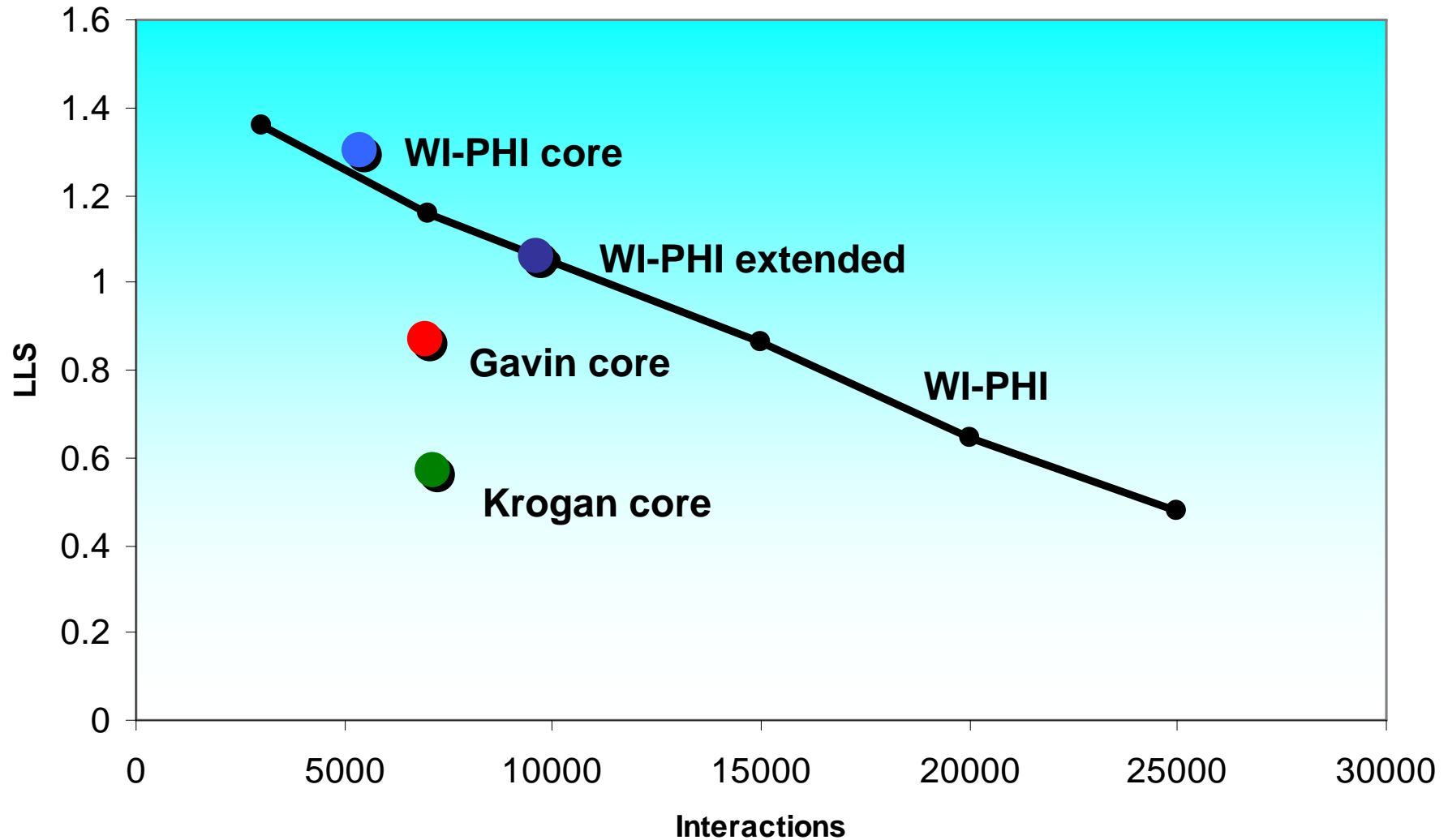
143 Replication factor A complex  
144 Tim22p-complex  
145 TFIIH  
146 Fatty acid synthetase, cytoplasmic  
147 Tubulins  
148 RNase MRP  
149 TFIIA  
150 Casein kinase I  
151 Chl4 protein complex  
152 mitochondrial 3'-to-5' exoribonuclease (mtEXO)  
153 other DNA repair complexes  
154 Phosphofructokinase  
155 Vps5/Vps17 complex  
156 Vam3/Vam7 vacuolar t-SNARE complex  
157 Met4/Met28/Met32 complex  
158 ADA complex  
159 TBP  
160 Nuclear pore complex (NPC)  
161 Catalase A  
162 Post-replication complex (Origin recognition complex=ORC )  
163 Sec61 complex  
164 Signal recognition particle (SRP)  
165 DNA helicases  
166 NOT complex  
167 Nop56p/Nop1p complex  
168 TFIIIB  
169 HAT B complex  
170 Mot1 complex  
171 L-aminopadipate-semialdehyde dehydrogenase  
172 eIF4E/eIF4G/Pab1p complex  
173 Processing peptidase  
174 Hexokinase 2  
175 mRNA guanylyl transferase (capping complex)  
176 Exocyst complex  
177 Geranylgeranyltransferase II (GGTase II)  
178 H<sup>+</sup>-transporting ATPase, vacuolar

179 Ctk1p complex  
180 other RNA processing components  
181 Chromatin assembly complex (CAC)  
182 ER protein-translocation complex associated proteins  
183 D-arabinose dehydrogenase  
184 Ndc80 protein complex  
185 Topoisomerases  
186 Sin3 complex  
187 NuA4 complex  
188 Tim9p/Tim10p-complex  
189 Sister chromatid separation complex  
190 mRNA splicing  
191 Clathrin  
192 eIF4E  
193 RNA polymerase III  
194 Met4/Met28/Met31 complex  
195 Inner Kinetochor Protein Complex  
196 20S proteasome  
197 AP-1 complex  
198 Endonuclease Scel, mitochondrial  
199 other respiration chain complexes  
200 DNA polymerase beta (IV)  
201 Fatty acid synthetase, mitochondrial  
202 Dynactin complex  
203 NSP1-NUP82 complex  
204 DNA ligase IV  
205 Signal recognition particle receptor (SR)  
206 Cbf1/Met4/Met28 complex  
207 Inner membrane protease  
208 NEF2 complex  
209 CBF3 protein complex  
210 eIF5  
211 SAGA-like complex (SLIK)  
212 CCAAT-binding factor complex  
213 eIF5A  
214 Succinate dehydrogenase complex (complex II)

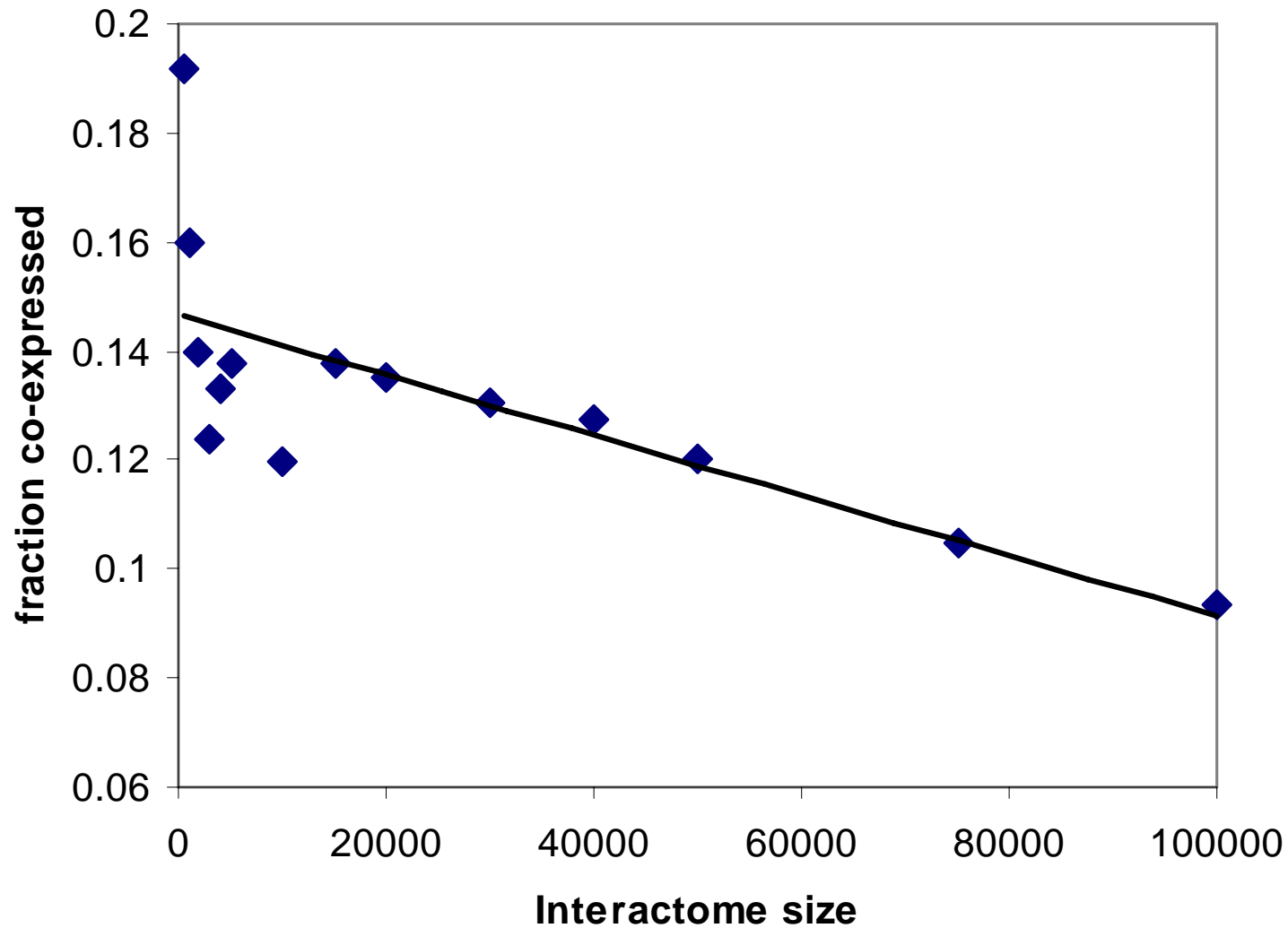
215 COPII  
216 Srb10p complex  
217 LEU3 complex  
218 Ddc1p-Mec3p complex  
219 SPB components  
220 Alpha-agglutinin anchor  
221 Nonsense-mediated mRNA decay pathway complex  
222 Nucleosomal protein complex  
223 19/22S regulator  
224 Ornithine carbamoyltransferase  
225 Dam1 protein complex  
226 Lon protease complex (homohexamer)  
227 MSH2/MSH6 complex  
228 Pre-replication complex (pre-RC)  
229 1,3-beta-D-glucan synthase  
230 delta3-cis-delta2-trans-enoyl-CoA isomerase  
231 DNA polymerase alpha (I) - primase complex  
232 TFIIC  
233 RNase P  
234 Septin filaments  
235 MRE11/RAD50/XRS2 complex  
236 Serine/threonine phosphoprotein phosphatase  
237 Dynein-complex motorproteins  
238 Arginase  
239 Casein kinase II  
240 SBF complex  
241 Anthranilate synthase  
242 26S proteasome  
243 other coat complexes  
244 Succinyl-CoA ligase  
245 NSP1 complex  
246 eEF1  
247 TFIIE  
248 Spindle pole body (SPB)  
249 other adaptor like proteins  
250 Mto1p/Mss1p complex



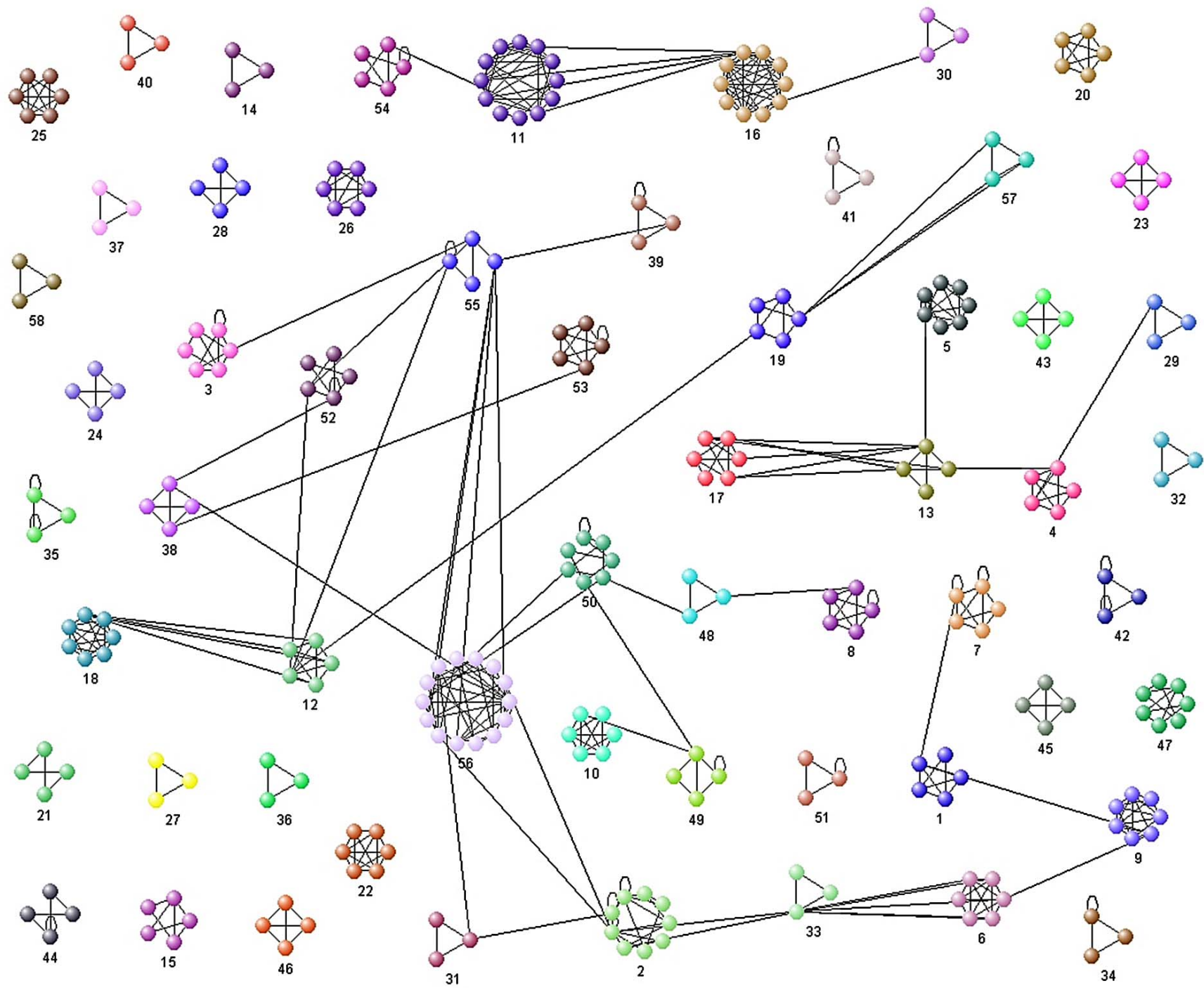
251 tRNA splicing  
252 TFIIIA  
253 Cytochrome bc1 complex (Ubiquinol-cytochrome c reductase complex, complex III)  
254 RNase H1  
255 Signal transduction complexes  
256 eEF3  
257 ARG complex  
258 SAGA complex  
259 MLH1/PMS1 complex  
260 NUP84 complex  
261 Ctf3 protein complex  
262 NEF3 complex  
263 GINS complex  
264 eIF4F



**Supporting Figure 1** Shared GO categories between interacting proteins is enriched with higher WI-PHI score. ORFs were assigned GO Biological Process terms and a log likelihood score (LLS) assigned to the interactome reflecting the degree of enrichment of this interactome (in terms of shared GO terms) over the best scoring 50,000 interactions of WI-PHI. A score of 0 corresponds to no enrichment, while the agreement in GO terms increases with the LLS. For comparison, the corresponding values of the core interactomes of two large-scale TAP studies are shown. Note that WI-PHI is not exactly on the trend line added for clarity due to small variations from the almost linear correlation.



**Supporting Figure 2** Inverse correlation between fraction of co-expressed genes and interactomes defined with decreasing SA threshold. Pearson correlation coefficients between all yeast genes from a large-scale expression analysis study were calculated. Pairs with correlation coefficients above 0.5 were considered to have similar expression profile and counted in a number of WI-PHI interactomes defined from various SA thresholds. The linear trend line was added for clarity.



## Supplementary figure 3 - legend

In order to identify densely connected regions of the WI-PHI core network, we followed the following procedure: First, all the proteins that were already annotated as members of the MIPS trusted complexes were deleted. We then removed the nodes of degree one and identified the remaining protein clusters and named by consulting the annotation at the SGD web site. In a few cases, the assignment of one protein to a cluster was done arbitrarily using as a guide the annotation in the SGD database. The numbers in the figure correspond to the following clusters.

<b>Complex number</b>	<b>Complex description</b>
1	U2-snRNP
2	Hsp90 chaperone
3	Peroxisomal import
4	Elongator complex
5	Torc complex
6	LSM complex
7	Spliceosome assembly
8	GARP complex
9	U1 snRNP
10	Ribosome biogenesis
11	Ino80/Noc complex
12	mRNA processing
13	Tap42/Sit4/Rrd1
14	DNA Damage response
15	OCA complex
16	NuA4 acetyltransferase complex
17	phosphatase 2A
18	COMPASS
19	nuclear exosome
20	vacuole import and degradation
21	O-mannosyltransferase
22	SET3 complex
23	Golgi ER traffic
24	pre-18S maturation
25	RSC complex
26	Golgi mannosyltransferase complex
27	Mit GTPase
28	RNA pol III
29	Peptidyl diphtamide biosynthesis
30	de-ubiquitination
31	Invasive growth
32	membrane targeting
33	mRNA decapping
34	Vacuole transport
35	Autophagy II
36	Signalosome
37	Met-Glu tRNA synthetase

38	Bud site
39	Nuclear pore
40	Acetyltransferase
41	Translation regulation
42	ATPS complex
43	Chromatin accessibility complex
44	Sulphate metabolism
45	THO complex
46	MIND complex
47	Sister chromatid cohesion
48	Vescicle Transport
49	Bud Growth
50	Osmosensing
51	Autophagy
52	Ubiquitin dependent catabolism
53	Exit from mitosis
54	Gene silencing
55	Sumoylation
56	Nuclear export
57	Translation repression
58	Factor C complex

This is a listing of the proteins mapped to the non-MIPS complexes.

<b>ORF</b>	<b>Complex description</b>
YMR288W	U2-snRNP
YMR240C	U2-snRNP
YML049C	U2-snRNP
YPL213W	U2-snRNP
YOR319W	U2-snRNP
YOR027W	Hsp90 chaperone
YPL106C	Hsp90 chaperone
YBR155W	Hsp90 chaperone
YLL024C	Hsp90 chaperone
YAL005C	Hsp90 chaperone
YNL064C	Hsp90 chaperone
YPL240C	Hsp90 chaperone
YDR168W	Hsp90 chaperone
YJR032W	Hsp90 chaperone
YLR191W	Peroxisomal import
YDR142C	Peroxisomal import
YDR244W	Peroxisomal import
YIL160C	Peroxisomal import
YHR160C	Peroxisomal import
YGL153W	Peroxisomal import
YMR312W	Elongator complex
YPL101W	Elongator complex
YGR200C	Elongator complex
YHR187W	Elongator complex
YKL110C	Elongator complex

YER093C	Torc complex
YNL006W	Torc complex
YHR186C	Torc complex
YKL203C	Torc complex
YJR066W	Torc complex
YMR068W	Torc complex
YOL078W	Torc complex
YNL147W	LSM complex
YDR378C	LSM complex
YER146W	LSM complex
YCR077C	LSM complex
YBL026W	LSM complex
YJL124C	LSM complex
YGR129W	Spliceosome assembly
YDR416W	Spliceosome assembly
YLR117C	Spliceosome assembly
YJR050W	Spliceosome assembly
YMR213W	Spliceosome assembly
YKR020W	GARP complex
YDR027C	GARP complex
YJL029C	GARP complex
YDR484W	GARP complex
YLR262C	GARP complex
YDR235W	U1 snRNP
YLR275W	U1 snRNP
YDL087C	U1 snRNP
YGR013W	U1 snRNP
YDR240C	U1 snRNP
YHR086W	U1 snRNP
YBR119W	U1 snRNP
YPL093W	Ribosome biogenesis
YHR197W	Ribosome biogenesis
YNL182C	Ribosome biogenesis
YHR085W	Ribosome biogenesis
YGR245C	Ribosome biogenesis
YLR106C	Ribosome biogenesis
YDR060W	Ino80/Noc complex
YPL235W	Ino80/Noc complex
YDR190C	Ino80/Noc complex
YLR002C	Ino80/Noc complex
YOR206W	Ino80/Noc complex
YOR141C	Ino80/Noc complex
YDL002C	Ino80/Noc complex
YNL059C	Ino80/Noc complex
YER092W	Ino80/Noc complex
YLR052W	Ino80/Noc complex
YGL150C	Ino80/Noc complex
YFL013C	Ino80/Noc complex
YNL317W	mRNA processing
YGR156W	mRNA processing

YKR002W	mRNA processing
YDR195W	mRNA processing
YPR107C	mRNA processing
YDL047W	Tap42/Sit4/Rrd1
YDR075W	Tap42/Sit4/Rrd1
YIL153W	Tap42/Sit4/Rrd1
YMR028W	Tap42/Sit4/Rrd1
YMR190C	DNA Damage response
YLR234W	DNA Damage response
YPL024W	DNA Damage response
YCR095C	OCA complex
YNL099C	OCA complex
YHL029C	OCA complex
YNL056W	OCA complex
YNL032W	OCA complex
YNL107W	NuA4 acetyltransferase complex
YNL136W	NuA4 acetyltransferase complex
YJR082C	NuA4 acetyltransferase complex
YEL018W	NuA4 acetyltransferase complex
YPR023C	NuA4 acetyltransferase complex
YGR002C	NuA4 acetyltransferase complex
YDR359C	NuA4 acetyltransferase complex
YJL081C	NuA4 acetyltransferase complex
YFL024C	NuA4 acetyltransferase complex
YHR090C	NuA4 acetyltransferase complex
YDL188C	phosphatase 2A
YDL134C	phosphatase 2A
YML109W	phosphatase 2A
YGL190C	phosphatase 2A
YPL152W	phosphatase 2A
YAL016W	phosphatase 2A
YLR015W	COMPASS
YPL138C	COMPASS
YDR469W	COMPASS
YBR175W	COMPASS
YHR119W	COMPASS
YKL018W	COMPASS
YAR003W	nuclear exosome
YOL142W	nuclear exosome
YOR001W	nuclear exosome
YNL232W	nuclear exosome
YGR158C	nuclear exosome
YIL097W	vacuole import and degradation
YGL227W	vacuole import and degradation
YIL017C	vacuole import and degradation
YMR135C	vacuole import and degradation
YBR105C	vacuole import and degradation
YDL093W	O-mannosyltransferase
YOR321W	O-mannosyltransferase
YAL023C	O-mannosyltransferase



YDL095W	O-mannosyltransferase
YDR155C	SET3 complex
YGL194C	SET3 complex
YKR029C	SET3 complex
YBR103W	SET3 complex
YOL068C	SET3 complex
YIL112W	SET3 complex
YLR440C	Golgi ER traffic
YGL145W	Golgi ER traffic
YNL258C	Golgi ER traffic
YGL098W	Golgi ER traffic
YJL069C	pre-18S maturation
YCR057C	pre-18S maturation
YLR129W	pre-18S maturation
YLR409C	pre-18S maturation
YCR020W-B	RSC complex
YLR033W	RSC complex
YML127W	RSC complex
YMR091C	RSC complex
YDR303C	RSC complex
YGR275W	RSC complex
YJR075W	Golgi mannosyltransferase complex
YML115C	Golgi mannosyltransferase complex
YPL050C	Golgi mannosyltransferase complex
YJL183W	Golgi mannosyltransferase complex
YDR245W	Golgi mannosyltransferase complex
YEL036C	Golgi mannosyltransferase complex
YBR179C	Mit GTPase
YOR211C	Mit GTPase
YDR470C	Mit GTPase
YJL011C	RNA pol III
YDL150W	RNA pol III
YKR025W	RNA pol III
YDR045C	RNA pol III
YIL103W	Peptidyl diphtamide biosynthesis
YKL191W	Peptidyl diphtamide biosynthesis
YBL071W-A	Peptidyl diphtamide biosynthesis
YOR124C	de-ubiquitination
YER125W	de-ubiquitination
YOR138C	de-ubiquitination
YHR084W	Invasive growth
YPL049C	Invasive growth
YDR480W	Invasive growth
YPL065W	membrane targeting
YCL008C	membrane targeting
YLR119W	membrane targeting
YNL118C	mRNA decapping
YOL149W	mRNA decapping
YEL015W	mRNA decapping
YPL120W	Vacuole transport

YLR240W	Vacuole transport
YLR360W	Vacuole transport
YLR423C	Autophagy II
YPR049C	Autophagy II
YGL180W	Autophagy II
YOL117W	Signalosome
YDL216C	Signalosome
YIL071C	Signalosome
YGL245W	Met-Glu tRNA synthetase
YGR264C	Met-Glu tRNA synthetase
YGL105W	Met-Glu tRNA synthetase
YNL298W	Bud site
YLR229C	Bud site
YAL041W	Bud site
YJL157C	Bud site
YDL207W	Nuclear pore
YOR046C	Nuclear pore
YMR255W	Nuclear pore
YCR020C-A	Acetyltransferase
YEL053C	Acetyltransferase
YPR051W	Acetyltransferase
YFR009W	Translation regulation
YGL195W	Translation regulation
YDR283C	Translation regulation
YMR261C	ATPS complex
YBR126C	ATPS complex
YDR074W	ATPS complex
YML010W	Chromatin accessibility complex
YGL133W	Chromatin accessibility complex
YJL065C	Chromatin accessibility complex
YDR121W	Chromatin accessibility complex
YPR167C	Sulphate metabolism
YLR109W	Sulphate metabolism
YGR209C	Sulphate metabolism
YLR043C	Sulphate metabolism
YHR167W	THO complex
YDL084W	THO complex
YNL139C	THO complex
YML062C	MIND complex
YAL034W-A	MIND complex
YIR010W	MIND complex
YJR112W	MIND complex
YJL050W	Sister chromatid cohesion
YLR086W	Sister chromatid cohesion
YDL175C	Sister chromatid cohesion
YNL299W	Sister chromatid cohesion
YFR031C	Sister chromatid cohesion
YBL097W	Sister chromatid cohesion
YOL115W	Sister chromatid cohesion
YER136W	Vescicle Transport

YFL038C	Vescicle Transport
YER031C	Vescicle Transport
YDR507C	Bud Growth
YNL078W	Bud Growth
YCL024W	Bud Growth
YKR048C	Bud Growth
YJL128C	Osmosensing
YIL147C	Osmosensing
YDR162C	Osmosensing
YDL235C	Osmosensing
YDL006W	Osmosensing
YNR031C	Osmosensing
YLR006C	Osmosensing
YMR159C	Autophagy
YPL149W	Autophagy
YBR217W	Autophagy
YKL213C	Ubiquitin dependent catabolism
YDL126C	Ubiquitin dependent catabolism
YGR048W	Ubiquitin dependent catabolism
YJL048C	Ubiquitin dependent catabolism
YBR170C	Ubiquitin dependent catabolism
YFR028C	Exit from mitosis
YHR061C	Exit from mitosis
YMR055C	Exit from mitosis
YJR053W	Exit from mitosis
YML064C	Exit from mitosis
YBL008W	Gene silencing
YJL115W	Gene silencing
YDR181C	Gene silencing
YOR038C	Gene silencing
YMR127C	Gene silencing
YPL020C	Sumoylation
YPR180W	Sumoylation
YDR390C	Sumoylation
YDR510W	Sumoylation
YLR293C	Nuclear export
YGL238W	Nuclear export
YGR218W	Nuclear export
YML007W	Nuclear export
YNL189W	Nuclear export
YOR185C	Nuclear export
YLR347C	Nuclear export
YJR074W	Nuclear export
YGL097W	Nuclear export
YMR308C	Nuclear export
YER110C	Nuclear export
YIL063C	Nuclear export
YDR002W	Nuclear export
YAR002W	Nuclear export

### Topological Analysis

Network	NumNodes	NumEdges	NumNodesPC	NumEdgesPC	NumConnComp	Diameter	AverageDegree	AverageClustCoeff	AverageMpl	AverageBetweenness
WI-PHI core	2406	5244	1890	4725	164	19	5	0.345121713	6.97215699	0.003165174
WI-PHI extended	2977	9225	2733	9067	100	18	6.635199415	0.357668406	5.72633406	0.001731391
Gavin core	1462	6942	1373	6833	30	12	9.953386744	0.529435591	5.22040773	0.003081118
Krogan core	2708	7123	2559	7031	63	12	5.495115279	0.194698733	4.74289992	0.001464511
FYI	1378	2491	777	1796	162	25	4.622908623	0.345912521	9.44021904	0.010906302

### NOTES:

- 1) "PC" means principal component, i.e. the biggest connected component in the network
- 2) "Diameter" is the longest path between two nodes in the network
- 3) "Mpl" stands for "Mean Path Length", which is the average distance between a pair of nodes in the network
- 4) "Betweenness", also known as "traffic", is a measure of how central a node is for the network, and it is computed as fraction of shortest paths passing through a node

Benchmark set: Every interaction has been validated at least twice in low-throughput reports

Q0085 YPL078C  
Q0250 YBR037C  
YAL001C YBR123C  
YAL001C YOR110W  
YAL005C YBR101C  
YAL005C YDR172W  
YAL005C YER165W  
YAL005C YJR032W  
YAL005C YLL024C  
YAL005C YNL007C  
YAL005C YNL064C  
YAL005C YOR027W  
YAL005C YPL106C  
YAL007C YAR002C-A  
YAL009W YMR165C  
YAL020C YKR048C  
YAL021C YBR279W  
YAL021C YCR093W  
YAL021C YDL165W  
YAL021C YDR443C  
YAL021C YER068W  
YAL021C YGR092W  
YAL021C YIL038C  
YAL021C YLR418C  
YAL021C YNR052C  
YAL021C YPR072W  
YAL024C YHL007C  
YAL024C YNL098C  
YAL026C YEL022W  
YAL029C YBR130C  
YAL029C YKL185W  
YAL030W YDR164C  
YAL030W YGR009C  
YAL030W YPL232W  
YAL034W-A YIR010W  
YAL035W YMR260C  
YAL038W YNL307C  
YAL040C YBR160W  
YAL041W YBR200W  
YAL041W YDR103W  
YAL041W YGR152C  
YAL041W YJL157C  
YAL041W YLR229C  
YAL041W YNL298W  
YAL041W YOR212W  
YAL043C YGR156W  
YAL047C YHR172W  
YAL047C YLR045C  
YAL047C YLR212C  
YAL047C YNL126W  
YAL047C YNL188W  
YAL047C YOR373W  
YAL051W YBR060C  
YAL056W YER020W  
YAR002C-A YAL007C  
YAR002C-A YGL200C  
YAR002C-A YML012W  
YAR002W YLR335W  
YAR002W YLR347C  
YAR003W YHR119W  
YAR007C YBR136W  
YAR007C YHR164C  
YAR007C YNL312W  
YAR014C YER133W  
YAR019C YFR028C  
YAR019C YGR092W  
YAR019C YML064C  
YAR019C YMR001C  
YAR042W YHR195W  
YBL007C YCL034W  
YBL007C YCR088W  
YBL007C YDR388W  
YBL007C YER125W  
YBL007C YIL095W  
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