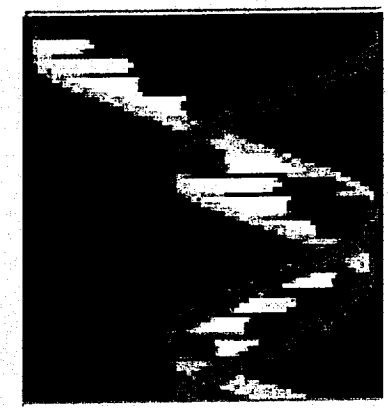
Computational Bio-nanotechnology



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RESEARCH:

In today's world, three seemingly diverse fields - computer information technology, nanotechnology and biotechnology are joining forces to enlarge our scientific knowledge and solve complex technological problems. Our group is dedicated to conduct theoretical research exploring the challenges in this area.

GROUP MEMBERS:

Manoj Samanta

Shoudan Liang

We collaborate with researchers from Stanford, Caltech, Uconn Health Center, UCSF Medical School, Pennsylvania State University University of Virginia School of Medicine, and University of Washington.

MAJOR AREAS:

Yeast Protein Interactions

Protein Structures

Current Transport through Small Molecules

We are part of the nanotechnology team at NASA Ames Research Center.

Please email msamanta@nas.nasa.gov with any comment or suggestion on this website.

Analysis of Protein Interaction Data from Yeast

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RESEARCH:

Currently we are trying to understand the yeast proteome. There are several experimental studies exploring the technology, nanotechnology and biotechnology are joining together to solve scientific and technological problems. Our group is dedicated to theoretical research exploring this challenging new direction of science.

MAJOR AREAS:

Common Partners of Protein

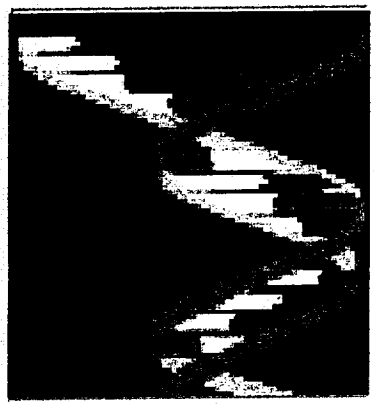
In this work, we analyze the common partners of protein to find any statistical significance.

Global Analysis of Protein Interaction Network

In this work, we analyze the protein interaction network using a percolation based method for long range order.

Please email msamanta@nas.nasa.gov with any comment or suggestion on this website.

Common Partners of Proteins



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RESEARCH:

In this work, we start with two-protein interaction data of yeast available from the DIP database and conduct an analysis based on the number of common partners every pairs of proteins share. The interactions are ranked based on their probabilities of occurance in a random sample and then significant pairs are studied for interesting patterns. More details about the method and observations are provided in this publication.

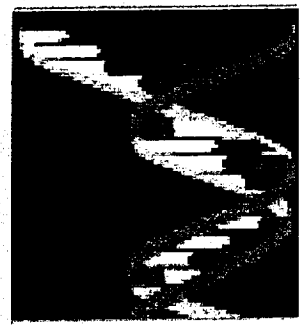
You can download the top 8000 pairs from our dataset from here -plain text, html.

Or enter any protein-name or ORF in the form below to get a list of other proteins it prefers to share partners with.

To download our paper on this, click here.

Please email msamanta@nas.nasa.gov with any comment or suggestion on this website.

Top 8000 Pairs



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1001-1250	1251-1500	1501-1750	1751-2000
2001-2250	2251-2500	2501-2750	2751-3000
3001-3250	3251-3500	3501-3750	3751-4000
4001-4250	4251-4500	4501-4750	4751-5000
5001-5250	5251-5500	5501-5750	5751-6000
6001-6250	6251-6500	6501-6750	6751-7000
7001-7250	7251-7500	7501-7750	7751-8000

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Protein Pairs and Probabilities of Partners

Protein 1	# Partners	Protein 2	# Partners	Common	Prob.
MYO3 [-] [C]	19	MYO5 [-] [C]	25	19	-47.406640
ROX3 [-] [B]	25	SRB6 [+] [T]	30	21	-46.116416
KRR1 [+] [U]	34	PWP2 [+] [C]	57	26	-45.496602
ROX3 [-] [B]	25	MED2 [-] [T]	26	20	-44.938714
MED2 [-] [T]	26	SRB6 [+] [T]	30	20	-42.189077
ATP1 [-] [E]	18	ATP2 [-] [E]	22	17	-42.174090
KAP95 [+] [O]	57	SRP1 [+] [O]	196	39	-41.254598
PRE1 [+] [F]	35	RPN10 [-] [F]	37	22	-40.575226
YNL110C [+] [U]	30	YKR081C [+] [U]	45	22	-40.332938
RPT1 [+] [F]	30	RPN6 [+] [F]	30	20	-40.077194
SMX2 [-] [T]	33	SMX3 [+] [T]	35	21	-39.470885
RPT1 [+] [F]	30	RPN5 [+] [F]	42	21	-38.501792
YKR081C [+] [U]	45	NOP2 [+] [T]	48	24	-38.256150
RPN6 [+] [F]	30	RPT3 [+] [F]	54	22	-38.061850
RPN10 [-] [F]	37	RPN5 [+] [F]	42	22	-38.043439
RPN6 [+] [F]	30	RPN10 [-] [F]	37	20	-37.359955
NUP49 [+] [O]	25	NUP57 [+] [O]	39	19	-36.579457
CKA2 [-] [T]	22	CKB1 [-] [T]	27	17	-36.507398
SRB6 [+] [T]	30	MED7 [+] [B]	32	19	-36.389975
YFR024C [-] [U]	20	YSC84 [-] [U]	23	16	-36.337854
RPN6 [+] [F]	30	RPN5 [+] [F]	42	20	-35.855384
RPT1 [+] [F]	30	RPT2 [+] [F]	54	21	-35.526602

RPT1 [+] [F]	30	RPT3 [+] [F]	54	21	-35.526602
RPT1 [+] [F]	30	RPN10 [-] [F]	37	19	-34.688605
KRR1 [+] [U]	34	YGR090W [+] [U]	51	21	-34.380951
YKR081C [+] [U]	45	YMR049C [+] [U]	55	23	-34.185577
PRE1 [+] [F]	35	RPN5 [+] [F]	42	20	-33.831824
SSF1 [-] [C]	26	NOP2 [+] [T]	48	19	-33.793427
UBP6 [-] [F]	14	RPN12 [+] [F]	26	14	-33.465299
NOP2 [+] [T]	48	YMR049C [+] [U]	55	23	-33.318364
RPN12 [+] [F]	26	RPN6 [+] [F]	30	17	-33.287209
YDR060W [+] [P]	28	NOP4 [+] [T]	38	18	-32.638473
MED2 [-] [T]	26	MED7 [+] [B]	32	17	-32.614595
RPN10 [-] [F]	37	RPT3 [+] [F]	54	21	-32.593992
YKL059C [+] [U]	16	CFT2 [+] [T]	16	13	-32.430607
YFR024C [-] [U]	20	SLA1 [-] [C]	34	16	-32.388193
CCT3 [+] [F]	16	CCT2 [+] [F]	24	14	-32.080316
YGR090W [+] [U]	51	PWP2 [+] [C]	57	23	-32.075325
SSF1 [-] [C]	26	YKR081C [+] [U]	45	18	-31.855822
YGL004C [-] [U]	18	RPT1 [+] [F]	30	15	-31.845977
CFT2 [+] [T]	16	YSH1 [+] [T]	17	13	-31.802497
TEM1 [+] [D]	115	SRP1 [+] [O]	196	44	-31.785039
SKI6 [+] [T]	16	RRP45 [+] [T]	18	13	-31.246473
CFT2 [+] [T]	16	PTA1 [+] [T]	18	13	-31.246473
RPN8 [+] [F]	26	RPN10 [-] [F]	37	17	-31.169855

RPN8 [+] [F]	26	RPN10 [-] [F]	37	17	-31.169855
SNU71 [+] [T]	18	LUC7 [+] [T]	23	14	-31.055475
RPN5 [+] [F]	42	RPT3 [+] [F]	54	21	-30.988230
YGL161C [-] [U]	19	YGL198W [-] [U]	22	14	-30.883548
CFT2 [+] [T]	16	PAP1 [+] [T]	19	13	-30.746150
REF2 [-] [T]	17	PTA1 [+] [T]	18	13	-30.618549
ROX3 [-] [B]	25	MED7 [+] [B]	32	16	-30.334202
CKB1 [-] [T]	27	CKA1 [-] [T]	65	19	-30.252221
CFT1 [+] [T]	14	YKL059C [+] [U]	16	12	-30.151475
CFT1 [+] [T]	14	CFT2 [+] [T]	16	12	-30.151475
YIF1 [+] [O]	17	YGL161C [-] [U]	19	13	-30.118319
BET1 [+] [O]	19	BOS1 [+] [O]	24	14	-30.096782
GAL11 [-] [T]	21	SRB6 [+] [T]	30	15	-30.027344
YGL004C [-] [U]	18	RPN12 [+] [F]	26	14	-29.984041
RPN11 [+] [F]	23	RPN10 [-] [F]	37	16	-29.924464
YGL004C [-] [U]	18	RPT3 [+] [F]	54	16	-29.908208
RPT2 [+] [F]	14	RPN3 [+] [F]	17	12	-29.620182
PTA1 [+] [T]	18	PAP1 [+] [T]	19	13	-29.562574
YNL110C [+] [U]	30	NOP2 [+] [T]	48	18	-29.496631
YKR081C [+] [U]	45	CDC95 [+] [P]	48	20	-29.364174
RPN11 [+] [F]	23	RPT3 [+] [F]	54	17	-29.192525
YHC1 [+] [T]	14	SNU71 [+] [T]	18	12	-29.143247
CFT1 [+] [T]	14	PTA1 [+] [T]	18	12	-29.143247
RPN9 [+] [F]	21	RPT6 [+] [F]	24	14	-29.098643

RPN9 [+] [F]	21	RPT6 [+] [F]	24	14	-29.098643
NOP4 [+] [T]	38	NOP2 [+] [T]	48	19	-29.095719
RPN11 [+] [F]	23	RPT1 [+] [F]	30	15	-29.074176
RPN11 [+] [F]	23	RPN6 [+] [F]	30	15	-29.074176
YHR052W [-] [U]	27	YGR103W [+] [U]	34	16	-28.970022
GIC1 [-] [C]	15	GIC2 [-] [C]	17	12	-28.921676
SKI6 [+] [T]	16	RRP46 [+] [T]	16	12	-28.851188
DIS3 [+] [T]	16	RRP46 [+] [T]	16	12	-28.851188
YGL004C [-] [U]	18	RPN6 [+] [F]	30	14	-28.807773
NOP2 [+] [T]	48	CDC95 [+] [P]	48	20	-28.649448
RPN12 [+] [F]	26	RPN10 [-] [F]	37	16	-28.594546
YKL059C [+] [U]	16	YSH1 [+] [T]	17	12	-28.320081
CFT2 [+] [T]	16	REF2 [-] [T]	17	12	-28.320081
PRP45 [+] [T]	22	CEF1 [+] [D]	25	14	-28.304439
MRP4 [-] [P]	35	MRPS5 [-] [P]	36	17	-28.290113
YDR036C [-] [U]	17	MRP4 [-] [P]	35	14	-28.258046
NUP100 [-] [O]	33	NUP57 [+] [O]	39	17	-28.107497
SPP381 [+] [T]	18	SMX2 [-] [T]	33	14	-28.058341
YDR036C [-] [U]	17	MRPS5 [-] [P]	36	14	-28.044447
YSC84 [-] [U]	23	SLA1 [-] [C]	34	15	-27.999251
RPT2 [+] [F]	14	RPN9 [+] [F]	21	12	-27.944232
NUP42 [-] [O]	31	NUP100 [-] [O]	33	16	-27.888851
RPN12 [+] [F]	26	RPT1 [+] [F]	30	15	-27.880880

RPN12 [+] [F]		RPT1 [+] [F]			
YKL059C [+] [U]	16	PTA1 [+] [T]	18	12	-27.843331
CFT2 [+] [T]	16	PFS2 [+] [T]	18	12	-27.843331
RRP46 [+] [T]	16	RRP45 [+] [T]	18	12	-27.843331
RPN12 [+] [F]	26	RPT3 [+] [F]	54	17	-27.712199
YGL004C [-] [U]	18	PRE1 [+] [F]	35	14	-27.606789
NOP4 [+] [T]	38	YKR081C [+] [U]	45	18	-27.553804
RPN12 [+] [F]	26	RPN5 [+] [F]	42	16	-27.487552
NUP49 [+] [O]	25	NUP100 [-] [O]	33	15	-27.430676
YKL059C [+] [U]	16	PAP1 [+] [T]	19	12	-27.410048
REF2 [-] [T]	17	FIP1 [+] [T]	18	12	-27.312410
YSH1 [+] [T]	17	PTA1 [+] [T]	18	12	-27.312410
CDC27 [+] [D]	11	APC1 [+] [D]	12	10	-27.288898
UBP6 [-] [F]	14	RPN10 [-] [F]	37	13	-27.230502
YSH1 [+] [T]	17	PAP1 [+] [T]	19	12	-26.879219
PTA1 [+] [T]	18	PFS2 [+] [T]	18	12	-26.835847
GAL11 [-] [T]	21	MED7 [+] [B]	32	14	-26.722973
PRP19 [+] [T]	16	CLF1 [+] [D]	21	12	-26.644875
MRPL10 [-] [P]	28	MRPL9 [-] [P]	32	15	-26.638762
RPN12 [+] [F]	26	PRE1 [+] [F]	35	15	-26.565064
YGR103W [+] [U]	34	YKR081C [+] [U]	45	17	-26.483213
RPN3 [+] [F]	17	RPN6 [+] [F]	30	13	-26.477585
NOG1 [+] [U]	27	YGR103W [+] [U]	34	15	-26.456665
RPT2 [+] [F]	14	RPN8 [+] [F]	26	12	-26.428532

RPT2 [+] [F]	14	RPN8 [+] [F]	26	12	-26.428532
FIP1 [+] [T]	18	PAP1 [+] [T]	19	12	-26.402749
UBP6 [-] [F]	14	RPN5 [+] [F]	42	13	-26.375861
RPN11 [+] [F]	23	RPN5 [+] [F]	42	15	-26.279602
YGL004C [-] [U]	18	RPN5 [+] [F]	42	14	-26.251755
RPT6 [+] [F]	24	RPT3 [+] [F]	54	16	-26.247617
TCP1 [+] [F]	21	CCT2 [+] [F]	24	13	-26.228519
NAM8 [-] [T]	22	LUC7 [+] [T]	23	13	-26.179343
CFT1 [+] [T]	14	REF2 [-] [T]	17	11	-26.126677
CFT1 [+] [T]	14	YSH1 [+] [T]	17	11	-26.126677
RPN3 [+] [F]	17	RPN9 [+] [F]	21	12	-26.114233
GAL11 [-] [T]	21	ROX3 [-] [B]	25	13	-25.910505
CLF1 [+] [D]	21	CEF1 [+] [D]	25	13	-25.910505
SSF1 [-] [C]	26	NOP4 [+] [T]	38	15	-25.890228
CKA2 [-] [T]	22	CKA1 [-] [T]	65	16	-25.753033
RPC34 [+] [T]	15	RPO31 [+] [T]	26	12	-25.730864
UBP6 [-] [F]	14	YGL004C [-] [U]	18	11	-25.716782
YTH1 [+] [T]	14	PTA1 [+] [T]	18	11	-25.716782
CFT1 [+] [T]	14	PFS2 [+] [T]	18	11	-25.716782
NGG1 [-] [B]	25	ADA2 [-] [B]	30	14	-25.654844
GAL11 [-] [T]	21	MED2 [-] [T]	26	13	-25.610220
LSM7 [-] [T]	22	LSM5 [+] [T]	35	14	-25.595498
BET1 [+] [O]	19	SEC22 [-] [O]	20	12	-25.572455
	10		10	9	-25.479218

APC11 [+] [D]	10	APC5 [+] [D]	10	9	-25.479218
UBP6 [-] [F]	14	RPT1 [+] [F]	30	12	-25.477169
UBP6 [-] [F]	14	RPN6 [+] [F]	30	12	-25.477169
RPN8 [+] [F]	26	RPT3 [+] [F]	54	16	-25.396046
YTH1 [+] [T]	14	PAP1 [+] [T]	19	11	-25.341397
CFT1 [+] [T]	14	PAP1 [+] [T]	19	11	-25.341397
CDC53 [+] [F]	29	SKP1 [+] [F]	36	15	-25.336219
SSF1 [-] [C]	26	YNL110C [+] [U]	30	14	-25.320543
SNU71 [+] [T]	18	NAM8 [-] [T]	22	12	-25.296084
RPT1 [+] [F]	30	PRE1 [+] [F]	35	15	-25.269831
TIF4632 [-] [P]	18	TIF4631 [-] [P]	33	13	-25.244293
NOP4 [+] [T]	38	YDL213C [-] [U]	58	18	-25.159490
RPN3 [+] [F]	17	RPT3 [+] [F]	54	14	-25.117590
YKL059C [+] [U]	16	REF2 [-] [T]	17	11	-25.048611
YNL110C [+] [U]	30	CDC95 [+] [P]	48	16	-24.936050
APC11 [+] [D]	10	CDC23 [+] [D]	20	10	-24.883050
APC5 [+] [D]	10	CDC23 [+] [D]	20	10	-24.883050
YER082C [+] [U]	40	PWP2 [+] [C]	57	18	-24.797807
DOC1 [-] [D]	10	CDC27 [+] [D]	11	9	-24.738948
APC11 [+] [D]	10	CDC27 [+] [D]	11	9	-24.738948
APC5 [+] [D]	10	CDC27 [+] [D]	11	9	-24.738948
ENP1 [+] [F]	33	PWP2 [+] [C]	57	17	-24.697193
ENP1 [+] [F]	33	KRR1 [+] [U]	34	15	-24.691606

ENP1 [+] [F]	33	KRR1 [+] [U]	34	15	-24.691606
CCT6 [+] [F]	18	CCT2 [+] [F]	24	12	-24.675835
YER126C [+] [U]	20	YKR081C [+] [U]	45	14	-24.656742
YKL059C [+] [U]	16	PFS2 [+] [T]	18	11	-24.638901
CFT2 [+] [T]	16	FIP1 [+] [T]	18	11	-24.638901
DIS3 [+] [T]	16	RRP45 [+] [T]	18	11	-24.638901
PRP19 [+] [T]	16	SYF1 [+] [T]	18	11	-24.638901
RPN3 [+] [F]	17	RPN8 [+] [F]	26	12	-24.599929
REF2 [-] [T]	17	YSH1 [+] [T]	17	11	-24.596871
RPT6 [+] [F]	24	RPN8 [+] [F]	26	13	-24.525125
UBP6 [-] [F]	14	PRE1 [+] [F]	35	12	-24.493682
YGL004C [-] [U]	18	RPN10 [-] [F]	37	13	-24.452689
RPO26 [+] [T]	12	RPB5 [+] [T]	16	10	-24.427695
CSL4 [+] [M]	12	SKI6 [+] [T]	16	10	-24.427695
CSL4 [+] [M]	12	RRP46 [+] [T]	16	10	-24.427695
RPT6 [+] [F]	24	RPN10 [-] [F]	37	14	-24.393230
LUC7 [+] [T]	23	STO1 [-] [T]	39	14	-24.380281
YHC1 [+] [T]	14	NAM8 [-] [T]	22	11	-24.372197
SDA1 [+] [D]	18	YLR074C [-] [U]	55	14	-24.340905
REF2 [-] [T]	17	PFS2 [+] [T]	18	11	-24.187254
YSH1 [+] [T]	17	PFS2 [+] [T]	18	11	-24.187254
APC4 [+] [D]	9	CDC16 [+] [D]	14	9	-24.177661
YTH1 [+] [T]	14	CFT1 [+] [T]	14	10	-24.150266
DOC1 [-] [D]	10	APC1 [+] [D]	12	9	-24.136980

DOC1 [-] [D]	10	APC1 [+] [D]	12	9	-24.136980
APC11 [+] [D]	10	APC1 [+] [D]	12	9	-24.136980
APC5 [+] [D]	10	APC1 [+] [D]	12	9	-24.136980
SNU71 [+] [T]	18	STO1 [-] [T]	39	13	-24.095688
UBP6 [-] [F]	14	RPN11 [+] [F]	23	11	-24.089930
YHC1 [+] [T]	14	LUC7 [+] [T]	23	11	-24.089930
YGR156W [+] [U]	12	YSH1 [+] [T]	17	10	-24.042530
CDC26 [-] [D]	11	CDC27 [+] [D]	11	9	-23.998770
RPN12 [+] [F]	26	RPN8 [+] [F]	26	13	-23.907759
SEC22 [-] [O]	20	BOS1 [+] [O]	24	12	-23.846473
CDC27 [+] [D]	11	CDC23 [+] [D]	20	10	-23.842586
RPT2 [+] [F]	14	RPT6 [+] [F]	24	11	-23.823941
REF2 [-] [T]	17	PAP1 [+] [T]	19	11	-23.812149
PTA1 [+] [T]	18	FIP1 [+] [T]	18	11	-23.777731
YGR103W [+] [U]	34	NOP2 [+] [T]	48	16	-23.767447
CSL4 [+] [M]	12	RRP45 [+] [T]	18	10	-23.690533
YGR156W [+] [U]	12	PTA1 [+] [T]	18	10	-23.690533
APC11 [+] [D]	10	APC2 [+] [D]	13	9	-23.625190
APC5 [+] [D]	10	APC2 [+] [D]	13	9	-23.625190
NAM8 [-] [T]	22	SMX2 [-] [T]	33	13	-23.487901
PRP4 [+] [T]	21	SNU114 [+] [P]	24	12	-23.479613
RPT6 [+] [F]	24	RPT1 [+] [F]	30	13	-23.467974
PFS2 [+] [T]	18	PAP1 [+] [T]	19	11	-23.402718

PFS2 [+] [T]		PAP1 [+] [T]			
CDC26 [-] [D]	11	APC1 [+] [D]	12	9	-23.396896
STV1 [-] [A]	11	VPH1 [-] [O]	12	9	-23.396896
NUP57 [+] [O]	39	NUP116 [+] [O]	146	22	-23.347573
YTH1 [+] [T]	14	YKL059C [+] [U]	16	10	-23.247919
YTH1 [+] [T]	14	CFT2 [+] [T]	16	10	-23.247919
APC11 [+] [D]	10	CDC16 [+] [D]	14	9	-23.178125
BET3 [+] [O]	10	TRS20 [+] [O]	14	9	-23.178125
APC5 [+] [D]	10	CDC16 [+] [D]	14	9	-23.178125
SDA1 [+] [D]	18	YNL110C [+] [U]	30	12	-23.174238
TAF145 [+] [T]	25	TAF90 [+] [B]	30	13	-23.150800
APC1 [+] [D]	12	CDC23 [+] [D]	20	10	-23.065364
SDA1 [+] [D]	18	YER126C [+] [U]	20	11	-23.056581
SSF1 [-] [C]	26	YMR049C [+] [U]	55	15	-23.021719
RPN6 [+] [F]	30	PRE1 [+] [F]	35	14	-22.953374
RPN9 [+] [F]	21	RPN8 [+] [F]	26	12	-22.928448
CDC27 [+] [D]	11	APC2 [+] [D]	13	9	-22.885198
YTM1 [+] [D]	22	HAS1 [+] [D]	25	12	-22.855242
RPN8 [+] [F]	26	RPN6 [+] [F]	30	13	-22.851354
YIF1 [+] [O]	17	YGL198W [-] [U]	22	11	-22.843786
YHR052W [-] [U]	27	YMR049C [+] [U]	55	15	-22.673276
YJL069C [+] [U]	29	YGR090W [+] [U]	51	15	-22.597947
CFT1 [+] [T]	14	FIP1 [+] [T]	18	10	-22.511129
PRP19 [+] [T]	16	CEF1 [+] [D]	25	11	-22.495830

PRP19 [+] [T]	16	CEF1 [+] [D]	25	11	-22.495830
RPT2 [+] [F]	14	RPN6 [+] [F]	30	11	-22.485477
CDC27 [+] [D]	11	CDC16 [+] [D]	14	9	-22.438226
APC2 [+] [D]	13	CDC23 [+] [D]	20	10	-22.429471
RPB8 [+] [T]	10	RPB5 [+] [T]	16	9	-22.421348
LSM3 [+] [T]	29	LSM8 [+] [T]	69	16	-22.361028
PRT1 [+] [P]	19	RPG1 [+] [P]	21	11	-22.360280
SKI6 [+] [T]	16	DIS3 [+] [T]	16	10	-22.345944
YNL110C [+] [U]	30	NOP4 [+] [T]	38	14	-22.337933
YTM1 [+] [D]	22	YHR052W [-] [U]	27	12	-22.332988
RPN3 [+] [F]	17	RPN10 [-] [F]	37	12	-22.322176
RPN3 [+] [F]	17	RPT6 [+] [F]	24	11	-22.296088
APC1 [+] [D]	12	APC2 [+] [D]	13	9	-22.283510
RPN11 [+] [F]	23	RPN12 [+] [F]	26	12	-22.268297
RPN11 [+] [F]	23	RPN8 [+] [F]	26	12	-22.268297
APC4 [+] [D]	9	CDC23 [+] [D]	20	9	-22.253919
SMX2 [-] [T]	33	PRP8 [-] [T]	35	14	-22.208707
CFT1 [+] [T]	14	HCA4 [+] [T]	19	10	-22.186990
RLP7 [+] [U]	11	NOG1 [+] [U]	27	10	-22.183685
APC4 [+] [D]	9	APC11 [+] [D]	10	8	-22.155481
APC4 [+] [D]	9	APC5 [+] [D]	10	8	-22.155481
MUD1 [-] [T]	18	LUC7 [+] [T]	23	11	-22.152740
RPN9 [+] [F]	21	RPN6 [+] [F]	30	12	-21.979694
	31		39	14	-21.887726

RPN9 [+] [F]		RPN6 [+] [F]			
NUP42 [-] [O]	31	NUP57 [+] [O]	39	14	-21.887726
YGL004C [-] [U]	18	RPT6 [+] [F]	24	11	-21.887123
CDC16 [+] [D]	14	CDC23 [+] [D]	20	10	-21.886332

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Proteins Sharing Partners with MYO3

(Click on the p-value to get names of common partners)

Sharing Partners with MYO3	log(p-value)
MYO5 [-][C]	-47.406640
ARC35 [+][O]	-9.816276
LAS17 [+][C]	-9.341416
HOF1 [-][D]	-7.923455
ARP3 [+][O]	-7.402418
VRP1 [-][C]	-7.032819
UBP7 [-][F]	-6.252290
ARP2 [+][O]	-6.080175
ARC15 [+][O]	-5.952746
ARC18 [-][O]	-5.333953
ARC19 [+][O]	-5.333953
RVS167 [-][C]	-5.123481
SLA1 [-][C]	-5.091873
BCK1 [-][C]	-5.043722
ACT1 [+][C]	-4.850032
YHR133C [-][U]	-4.808597
ZRT3 [-][O]	-4.808597
ARC40 [+][C]	-4.520456
BNI1 [-][C]	-4.437624
SLF1 [-][P]	-4.333053
BBC1 [-][U]	-4.217695

BBC1 [-][U]	-4.217695
ABP1 [-][C]	-4.030852
RSP5 [+][F]	-3.818910
IMH1 [-][O]	-3.813330
YNL094W [-][U]	-3.771184
PFY1 [+][C]	-3.638816
YJL151C [-][U]	-3.494267
YPL246C [-][U]	-3.370907
PHO84 [-][A]	-3.168011
KAP122 [-][O]	-3.168011
YPR171W [-][U]	-3.082440
FIR1 [-][T]	-3.004839
LPD1 [-][G]	-3.004839
END3 [-][C]	-2.933869
YDR032C [-][U]	-2.933869
CNA1 [-][C]	-2.868503
SLA2 [-][O]	-2.868503
MYO4 [-][O]	-2.751526
MET18 [-][B]	-2.751526
RVS161 [-][O]	-2.751526
YHL002W [-][C]	-2.698750
MKK2 [-][R]	-2.602457
KGD2 [-][E]	-2.558283

KGD2 [-][E]	
COF1 [+][C]	-2.516400
YSC84 [-][U]	-2.438666
YJR029W [-][U]	-2.392604
YGR031W [-][U]	-2.392604
ROT2 [-][M]	-2.392604
HOM6 [-][G]	-2.392604
DAP2 [-][F]	-2.392604
AUA1 [-][M]	-2.392604
JAC1 [+][F]	-2.392604
RPL26B [-][P]	-2.392604
COX20 [-][E]	-2.392604
YOR029W [-][U]	-2.392604
YCR044C [-][A]	-2.392604
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YDL037C [-][M]	-2.392604
YML095C-A [-][U]	-2.392604
YLL054C [-][B]	-2.392604
YGR110W [-][U]	-2.392604
YGR050C [-][U]	-2.392604
YOL002C [-][U]	-2.392604
YKR032W [-][U]	-2.392604
YDL015C [+][M]	-2.392604
YOR175C [-][U]	-2.392604

YOR175C [-][U]	-2.392604
YNL040W [-][M]	-2.392604
YJL012C [-][U]	-2.392604
YOR081C [-][U]	-2.392604
YML131W [-][M]	-2.392604
YLR112W [-][U]	-2.392604
YCL036W [-][U]	-2.392604
LSB5 [-][U]	-2.392604
SHO1 [-][R]	-2.367834
FUS1 [-][C]	-2.367834
CPH1 [-][F]	-2.242771
BZZ1 [-][U]	-2.107701
YNR065C [-][U]	-2.093244
YPR094W [+][U]	-2.093244
ERG24 [-][M]	-2.093244
YFR054C [-][U]	-2.093244
RPL30 [+][P]	-2.093244
MET8 [-][G]	-2.093244
EXO70 [+][O]	-2.093244
HUL5 [-][T]	-2.093244
TIS11 [-][T]	-2.093244
YKL177W [-][U]	-2.093244
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	-2.093244

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YDR056C [-][U]	-2.093244
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OPI3 [-][M]	-2.093244
ECM7 [-][C]	-2.093244
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YIL130W [-][B]	-2.093244
YAR064W [-][U]	-2.093244
YDL172C [-][U]	-2.093244
YDR042C [-][U]	-2.093244
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GAD1 [-][G]	-2.093244
ARG1 [-][G]	-2.093244
YGL222C [-][U]	-2.093244
BUR6 [+][B]	-2.093244
YDL129W [-][U]	-2.093244
PMI40 [+][M]	-2.093244
MSB1 [-][C]	-1.918823
YJL065C [-][D]	-1.918823
SQT1 [+][F]	-1.918823
QCR7 [-][E]	-1.918823
SRP101 [+][F]	-1.918823

SRP101 [+][F]	-1.918823
ATP12 [-][F]	-1.918823
MSH4 [-][D]	-1.918823
SRL1 [-][R]	-1.918823
SDC25 [-][D]	-1.918823
ROT1 [+][D]	-1.918823
IFH1 [+][T]	-1.918823
MET1 [-][M]	-1.918823
YMR111C [-][U]	-1.918823
FRE6 [-][A]	-1.918823
YJL086C [+][U]	-1.918823
YDR319C [-][U]	-1.918823
SEC8 [+][O]	-1.918823
RIM2 [+][E]	-1.918823
TPM1 [-][C]	-1.918823
YDR063W [-][U]	-1.918823
YJL152W [-][U]	-1.918823
GOG5 [+][A]	-1.918823
DST1 [-][T]	-1.918823
YGR215W [-][U]	-1.918823
ABM1 [-][U]	-1.918823
GAL2 [-][A]	-1.918823
CDC54 [+][D]	-1.918823
LSB6 [-][U]	-1.918823

LSB6 [-][U]	-1.918823
SUR1 [-][M]	-1.918823
YJR115W [-][U]	-1.918823
ACF2 [-][C]	-1.918823
SPS19 [-][E]	-1.918823
MRPL6 [-][P]	-1.918823
YLR243W [+][U]	-1.918823
PDR3 [-][B]	-1.918823
YHM2 [-][D]	-1.918823
ECM30 [-][C]	-1.918823
ESP1 [+][D]	-1.918823
TFC6 [+][T]	-1.918823
YAL064W [-][U]	-1.918823
FAL1 [+][T]	-1.918823
PUS2 [-][T]	-1.918823
SLT2 [-][R]	-1.863368
BRO1 [-][R]	-1.795554
YBR108W [-][U]	-1.795554
YHL044W [-][U]	-1.795554
YMR253C [-][U]	-1.795554
MSU1 [-][T]	-1.795554
PCL9 [-][U]	-1.795554
OSH1 [-][M]	-1.795554

OSH1 [-][M]	-1.795554
PEP1 [-][O]	-1.795554
CMK2 [-][C]	-1.795554
YER079W [-][U]	-1.795554
YGL060W [-][U]	-1.795554
PLP2 [+][C]	-1.795554
REG2 [-][M]	-1.795554
PIG2 [-][U]	-1.795554
YLR064W [-][U]	-1.795554
RPS26A [-][P]	-1.795554
DUR12 [-][U]	-1.795554
ENT1 [-][O]	-1.795554
DED1 [+][T]	-1.795554
VAS1 [+][P]	-1.795554
SUN4 [-][M]	-1.795554
GPM1 [+][E]	-1.700315
YLR241W [-][U]	-1.700315
APE2 [-][F]	-1.700315
MTO1 [-][P]	-1.700315
SLN1 [+][C]	-1.700315
HSP150 [-][R]	-1.700315
RRD2 [-][U]	-1.700315
CCT8 [+][F]	-1.700315
SIZ1 [-][F]	-1.700315

SIZ1 [-][F]	-1.700315
TIM22 [+][F]	-1.700315
SHE4 [-][C]	-1.700315
PCL2 [-][D]	-1.700315
CDC47 [+][D]	-1.700315
TRP3 [-][G]	-1.700315
TRP5 [-][G]	-1.700315
VPS13 [-][F]	-1.700315
SFL1 [-][B]	-1.700315
YGL129C [-][U]	-1.700315
YIR003W [-][U]	-1.700315
YHR156C [-][O]	-1.700315
MLC1 [-][D]	-1.622805
ILV5 [+][G]	-1.622805
MED11 [+][T]	-1.622805
POB3 [+][D]	-1.622805
AUT1 [-][F]	-1.622805
HCH1 [-][U]	-1.622805
YGL104C [-][A]	-1.622805
YFR027W [+][D]	-1.622805
YIL008W [-][F]	-1.622805
RPC37 [+][T]	-1.622805
KRS1 [+][P]	-1.622805
	-1.622805

KRS1 [+][P]	
YPR184W [-][M]	-1.622805
YOR059C [-][U]	-1.622805
BUD6 [-][C]	-1.622805
NFI1 [-][F]	-1.622805
DOA4 [-][F]	-1.622805
NUT2 [+][B]	-1.622805
NUT1 [-][B]	-1.622805
YPL249C [-][U]	-1.622805
PGD1 [-][B]	-1.622805
MED1 [-][T]	-1.622805
YGL037C [-][U]	-1.622805
ERG6 [-][M]	-1.557530
SRB8 [-][T]	-1.557530
RTT101 [-][U]	-1.557530
NUF1 [+][C]	-1.557530
RHO4 [-][C]	-1.557530
MKK1 [-][C]	-1.557530
PUP2 [+][F]	-1.557530
FET3 [-][A]	-1.557530
LCP5 [+][T]	-1.557530
ILS1 [+][P]	-1.501209
RRP43 [+][T]	-1.501209
CSE2 [-][T]	-1.501209

CSE2 [-][T]	-1.501209
CAP1 [-][C]	-1.501209
RGD1 [-][C]	-1.501209
YPT7 [-][O]	-1.501209
YMR192W [-][U]	-1.501209
YIL132C [-][U]	-1.501209
HAP5 [-][B]	-1.501209
YKR030W [-][U]	-1.501209
UFD1 [+][F]	-1.501209
PHO86 [-][A]	-1.501209
SAN1 [-][C]	-1.501209
TEF1 [-][P]	-1.501209
SAC6 [-][O]	-1.501209
SEN2 [+][T]	-1.501209
FAP1 [-][U]	-1.501209
YGR136W [-][C]	-1.501209
YDR229W [-][U]	-1.501209
YLL013C [-][M]	-1.501209
CMP2 [-][C]	-1.451729
GTR1 [-][M]	-1.451729
YJR083C [-][U]	-1.451729
SOD1 [-][R]	-1.451729
RPL23A [-][P]	-1.451729
VPS5 [-][F]	-1.451729

VPS5 [-][F]	-1.451729
TDH3 [-][E]	-1.451729
THI4 [-][D]	-1.451729
SES1 [+][P]	-1.451729
CHC1 [-][O]	-1.451729
MTH1 [-][M]	-1.451729
EDE1 [-][U]	-1.451729
RTS1 [-][R]	-1.451729
RGR1 [+][T]	-1.451729
RPB8 [+][T]	-1.407644
SRB5 [-][T]	-1.407644
YNL078W [-][U]	-1.407644
SIP1 [-][M]	-1.407644
SAP4 [-][D]	-1.407644
PRO3 [+][G]	-1.407644
TLG2 [-][O]	-1.407644
PRE6 [+][F]	-1.407644
AAC3 [-][O]	-1.407644
KSP1 [-][U]	-1.407644
SRB7 [+][T]	-1.407644
YPL181W [-][U]	-1.407644
YNK1 [-][M]	-1.407644
PPH3 [-][C]	-1.407644

PPH3 [-][C]	-1.407644
LSB3 [-][U]	-1.407644
SGN1 [-][T]	-1.367924
SWM1 [-][C]	-1.367924
BNR1 [-][C]	-1.367924
HXT6 [-][A]	-1.367924
MED6 [+][B]	-1.367924
IQG1 [+][D]	-1.367924
YNL086W [-][U]	-1.367924
NTG1 [-][D]	-1.367924
GSY2 [-][E]	-1.367924
PDR13 [-][R]	-1.331809
KTR3 [-][F]	-1.331809
SIR2 [-][D]	-1.331809
PEX13 [-][O]	-1.331809
SHE3 [-][C]	-1.331809
SRB9 [-][T]	-1.298720
IDH1 [-][E]	-1.298720
CDC48 [+][D]	-1.298720
SRP54 [+][F]	-1.298720
YGR268C [-][U]	-1.268210
CAR1 [-][G]	-1.268210
CBK1 [+][U]	-1.268210
MED8 [+][T]	-1.268210

MED8 [+][T]	-1.268210
YAP1 [-][B]	-1.268210
UBA1 [+][F]	-1.268210
YEL017W [-][U]	-1.268210
MED4 [+][T]	-1.268210
BEM1 [-][C]	-1.268210
HXT7 [-][A]	-1.268210
HYP2 [+][P]	-1.239921
SPA2 [-][C]	-1.239921
IPP1 [+][M]	-1.239921
CCT5 [+][F]	-1.239921
PKC1 [+][C]	-1.239921
LYS12 [-][G]	-1.239921
SSN3 [-][D]	-1.239921
PGM2 [-][E]	-1.239921
PPH21 [-][C]	-1.239921
YNL127W [-][U]	-1.239921
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OYE2 [-][E]	-1.213567
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ADR1 [-][B]	-1.188913
SST2 [-][C]	-1.188913
	-1.188913

SST2 [-][C]	
REF2 [-][T]	-1.188913
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RNR3 [-][D]	-1.188913
YOL082W [-][U]	-1.188913
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NIP1 [+][P]	-1.165765
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CAP2 [-][C]	-1.165765
SRV2 [-][C]	-1.165765
CDC25 [+][D]	-1.165765
GRR1 [-][O]	-1.143959
PRP21 [+][T]	-1.143959
PIN3 [-][U]	-1.143959
MYO2 [+][C]	-1.143959
CDC42 [+][C]	-1.143959
YOR284W [-][U]	-1.143959
BMH1 [-][C]	-1.143959
YFR024C [-][U]	-1.123359
RPB3 [+][T]	-1.123359

RPB3 [+][T]	-1.123359
RPT4 [+][F]	-1.123359
RVB2 [+][D]	-1.123359
GFA1 [+][M]	-1.123359
RFA1 [+][D]	-1.123359
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URA7 [-][M]	-1.103846
GAL11 [-][T]	-1.103846
SIN4 [-][B]	-1.103846
UBI4 [-][F]	-1.085320
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CDC55 [-][C]	-1.067692
RPN11 [+][F]	-1.067692
STE4 [-][C]	-1.050886
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UBP15 [-][F]	-1.050886
RAD16 [-][D]	-1.034835
ROX3 [-][B]	-1.034835
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RPN1 [-][F]	-1.019480
RPN12 [+][F]	-1.019480
RPN8 [+][F]	-1.019480
	-1.004768

SRB2 [-][T]	-1.004768

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(Click on the p-value to get names of common partners)

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MYO5 [-][C]	-47.406640
ARC35 [+][O]	-9.816276
LAS17 [+][C]	-9.341416
HOF1 [-][D]	-7.923455
ARP3 [+][O]	-7.402418
VRP1 [-][C]	-7.032819
UBP7 [-][F]	-6.252290
ARP2 [+][O]	-6.080175
ARC15 [+][O]	-5.952746
ARC18 [-][O]	-5.333953
ARC19 [+][O]	-5.333953
RVS167 [-][C]	-5.123481
SLA1 [-][C]	-5.091873
BCK1 [-][C]	-5.043722
ACT1 [+][C]	-4.850032
YHR133C [-][U]	-4.808597
ZRT3 [-][O]	-4.808597
ARC40 [+][C]	-4.520456
BNI1 [-][C]	-4.437624
SLF1 [-][P]	-4.333053
BBC1 [-][U]	-4.217695

BBC1 [-][U]	-4.217695
ABP1 [-][C]	-4.030852
RSP5 [+][F]	-3.818910
IMH1 [-][O]	-3.813330
YNL094W [-][U]	-3.771184
PFY1 [+][C]	-3.638816
YJL151C [-][U]	-3.494267
YPL246C [-][U]	-3.370907
PHO84 [-][A]	-3.168011
KAP122 [-][O]	-3.168011
YPR171W [-][U]	-3.082440
FIR1 [-][T]	-3.004839
LPD1 [-][G]	-3.004839
END3 [-][C]	-2.933869
YDR032C [-][U]	-2.933869
CNA1 [-][C]	-2.868503
SLA2 [-][O]	-2.868503
MYO4 [-][O]	-2.751526
MET18 [-][B]	-2.751526
RVS161 [-][O]	-2.751526
YHL002W [-][C]	-2.698750
MKK2 [-][R]	-2.602457
KGD2 [-][E]	-2.558283

KGD2 [-][E]	
COF1 [+][C]	-2.516400
YSC84 [-][U]	-2.438666
YJR029W [-][U]	-2.392604
YGR031W [-][U]	-2.392604
ROT2 [-][M]	-2.392604
HOM6 [-][G]	-2.392604
DAP2 [-][F]	-2.392604
AUA1 [-][M]	-2.392604
JAC1 [+][F]	-2.392604
RPL26B [-][P]	-2.392604
COX20 [-][E]	-2.392604
YOR029W [-][U]	-2.392604
YCR044C [-][A]	-2.392604
MRS1 [-][T]	-2.392604
YDL037C [-][M]	-2.392604
YML095C-A [-][U]	-2.392604
YLL054C [-][B]	-2.392604
YGR110W [-][U]	-2.392604
YGR050C [-][U]	-2.392604
YOL002C [-][U]	-2.392604
YKR032W [-][U]	-2.392604
YDL015C [+][M]	-2.392604
YOR175C [-][U]	-2.392604

YOR175C [-][U]	-2.392604
YNL040W [-][M]	-2.392604
YJL012C [-][U]	-2.392604
YOR081C [-][U]	-2.392604
YML131W [-][M]	-2.392604
YLR112W [-][U]	-2.392604
YCL036W [-][U]	-2.392604
LSB5 [-][U]	-2.392604
SHO1 [-][R]	-2.367834
FUS1 [-][C]	-2.367834
CPH1 [-][F]	-2.242771
BZZ1 [-][U]	-2.107701
YNR065C [-][U]	-2.093244
YPR094W [+][U]	-2.093244
ERG24 [-][M]	-2.093244
YFR054C [-][U]	-2.093244
RPL30 [+][P]	-2.093244
MET8 [-][G]	-2.093244
EXO70 [+][O]	-2.093244
HUL5 [-][T]	-2.093244
TIS11 [-][T]	-2.093244
YKL177W [-][U]	-2.093244
PAU4 [-][R]	-2.093244
	-2.093244

PAU4 [-][R]	
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YDR056C [-][U]	-2.093244
KRE9 [+][C]	-2.093244
RAM1 [-][F]	-2.093244
OPI3 [-][M]	-2.093244
ECM7 [-][C]	-2.093244
YFL012W [-][U]	-2.093244
YIL130W [-][B]	-2.093244
YAR064W [-][U]	-2.093244
YDL172C [-][U]	-2.093244
YDR042C [-][U]	-2.093244
CMK1 [-][C]	-2.093244
GAD1 [-][G]	-2.093244
ARG1 [-][G]	-2.093244
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PMI40 [+][M]	-2.093244
MSB1 [-][C]	-1.918823
YJL065C [-][D]	-1.918823
SQT1 [+][F]	-1.918823
QCR7 [-][E]	-1.918823
SRP101 [+][F]	-1.918823

SRP101 [+][F]	-1.918823
ATP12 [-][F]	-1.918823
MSH4 [-][D]	-1.918823
SRL1 [-][R]	-1.918823
SDC25 [-][D]	-1.918823
ROT1 [+][D]	-1.918823
IFH1 [+][T]	-1.918823
MET1 [-][M]	-1.918823
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YDR319C [-][U]	-1.918823
SEC8 [+][O]	-1.918823
RIM2 [+][E]	-1.918823
TPM1 [-][C]	-1.918823
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YJL152W [-][U]	-1.918823
GOG5 [+][A]	-1.918823
DST1 [-][T]	-1.918823
YGR215W [-][U]	-1.918823
ABM1 [-][U]	-1.918823
GAL2 [-][A]	-1.918823
CDC54 [+][D]	-1.918823
LSB6 [-][U]	-1.918823

LSB6 [-][U]	-1.918823
SUR1 [-][M]	-1.918823
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ACF2 [-][C]	-1.918823
SPS19 [-][E]	-1.918823
MRPL6 [-][P]	-1.918823
YLR243W [+][U]	-1.918823
PDR3 [-][B]	-1.918823
YHM2 [-][D]	-1.918823
ECM30 [-][C]	-1.918823
ESP1 [+][D]	-1.918823
TFC6 [+][T]	-1.918823
YAL064W [-][U]	-1.918823
FAL1 [+][T]	-1.918823
PUS2 [-][T]	-1.918823
SLT2 [-][R]	-1.863368
BRO1 [-][R]	-1.795554
YBR108W [-][U]	-1.795554
YHL044W [-][U]	-1.795554
YMR253C [-][U]	-1.795554
MSU1 [-][T]	-1.795554
PCL9 [-][U]	-1.795554
OSH1 [-][M]	-1.795554

OSH1 [-][M]	-1.795554
PEP1 [-][O]	-1.795554
CMK2 [-][C]	-1.795554
YER079W [-][U]	-1.795554
YGL060W [-][U]	-1.795554
PLP2 [+][C]	-1.795554
REG2 [-][M]	-1.795554
PIG2 [-][U]	-1.795554
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RPS26A [-][P]	-1.795554
DUR12 [-][U]	-1.795554
ENT1 [-][O]	-1.795554
DED1 [+][T]	-1.795554
VAS1 [+][P]	-1.795554
SUN4 [-][M]	-1.795554
GPM1 [+][E]	-1.700315
YLR241W [-][U]	-1.700315
APE2 [-][F]	-1.700315
MTO1 [-][P]	-1.700315
SLN1 [+][C]	-1.700315
HSP150 [-][R]	-1.700315
RRD2 [-][U]	-1.700315
CCT8 [+][F]	-1.700315
SIZ1 [-][F]	-1.700315

SIZ1 [-][F]	-1.700315
TIM22 [+][F]	-1.700315
SHE4 [-][C]	-1.700315
PCL2 [-][D]	-1.700315
CDC47 [+][D]	-1.700315
TRP3 [-][G]	-1.700315
TRP5 [-][G]	-1.700315
VPS13 [-][F]	-1.700315
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YIR003W [-][U]	-1.700315
YHR156C [-][O]	-1.700315
MLC1 [-][D]	-1.622805
ILV5 [+][G]	-1.622805
MED11 [+][T]	-1.622805
POB3 [+][D]	-1.622805
AUT1 [-][F]	-1.622805
HCH1 [-][U]	-1.622805
YGL104C [-][A]	-1.622805
YFR027W [+][D]	-1.622805
YIL008W [-][F]	-1.622805
RPC37 [+][T]	-1.622805
KRS1 [+][P]	-1.622805
	-1.622805

KRS1 [+][P]	
YPR184W [-][M]	-1.622805
YOR059C [-][U]	-1.622805
BUD6 [-][C]	-1.622805
NFI1 [-][F]	-1.622805
DOA4 [-][F]	-1.622805
NUT2 [+][B]	-1.622805
NUT1 [-][B]	-1.622805
YPL249C [-][U]	-1.622805
PGD1 [-][B]	-1.622805
MED1 [-][T]	-1.622805
YGL037C [-][U]	-1.622805
ERG6 [-][M]	-1.557530
SRB8 [-][T]	-1.557530
RTT101 [-][U]	-1.557530
NUF1 [+][C]	-1.557530
RHO4 [-][C]	-1.557530
MKK1 [-][C]	-1.557530
PUP2 [+][F]	-1.557530
FET3 [-][A]	-1.557530
LCP5 [+][T]	-1.557530
ILS1 [+][P]	-1.501209
RRP43 [+][T]	-1.501209
CSE2 [-][T]	-1.501209

CSE2 [-][T]	-1.501209
CAP1 [-][C]	-1.501209
RGD1 [-][C]	-1.501209
YPT7 [-][O]	-1.501209
YMR192W [-][U]	-1.501209
YIL132C [-][U]	-1.501209
HAP5 [-][B]	-1.501209
YKR030W [-][U]	-1.501209
UFD1 [+][F]	-1.501209
PHO86 [-][A]	-1.501209
SAN1 [-][C]	-1.501209
TEF1 [-][P]	-1.501209
SAC6 [-][O]	-1.501209
SEN2 [+][T]	-1.501209
FAP1 [-][U]	-1.501209
YGR136W [-][C]	-1.501209
YDR229W [-][U]	-1.501209
YLL013C [-][M]	-1.501209
CMP2 [-][C]	-1.451729
GTR1 [-][M]	-1.451729
YJR083C [-][U]	-1.451729
SOD1 [-][R]	-1.451729
RPL23A [-][P]	-1.451729
VPS5 [-][F]	-1.451729

VPS5 [-][F]	-1.451729
TDH3 [-][E]	-1.451729
THI4 [-][D]	-1.451729
SES1 [+][P]	-1.451729
CHC1 [-][O]	-1.451729
MTH1 [-][M]	-1.451729
EDE1 [-][U]	-1.451729
RTS1 [-][R]	-1.451729
RGR1 [+][T]	-1.451729
RPB8 [+][T]	-1.407644
SRB5 [-][T]	-1.407644
YNL078W [-][U]	-1.407644
SIP1 [-][M]	-1.407644
SAP4 [-][D]	-1.407644
PRO3 [+][G]	-1.407644
TLG2 [-][O]	-1.407644
PRE6 [+][F]	-1.407644
AAC3 [-][O]	-1.407644
KSP1 [-][U]	-1.407644
SRB7 [+][T]	-1.407644
YPL181W [-][U]	-1.407644
YNK1 [-][M]	-1.407644
PPH3 [-][C]	-1.407644

PPH3 [-][C]	-1.407644
LSB3 [-][U]	-1.407644
SGN1 [-][T]	-1.367924
SWM1 [-][C]	-1.367924
BNR1 [-][C]	-1.367924
HXT6 [-][A]	-1.367924
MED6 [+][B]	-1.367924
IQG1 [+][D]	-1.367924
YNL086W [-][U]	-1.367924
NTG1 [-][D]	-1.367924
GSY2 [-][E]	-1.367924
PDR13 [-][R]	-1.331809
KTR3 [-][F]	-1.331809
SIR2 [-][D]	-1.331809
PEX13 [-][O]	-1.331809
SHE3 [-][C]	-1.331809
SRB9 [-][T]	-1.298720
IDH1 [-][E]	-1.298720
CDC48 [+][D]	-1.298720
SRP54 [+][F]	-1.298720
YGR268C [-][U]	-1.268210
CAR1 [-][G]	-1.268210
CBK1 [+][U]	-1.268210
MED8 [+][T]	-1.268210

MED8 [+][T]	-1.268210
YAP1 [-][B]	-1.268210
UBA1 [+][F]	-1.268210
YEL017W [-][U]	-1.268210
MED4 [+][T]	-1.268210
BEM1 [-][C]	-1.268210
HXT7 [-][A]	-1.268210
HYP2 [+][P]	-1.239921
SPA2 [-][C]	-1.239921
IPP1 [+][M]	-1.239921
CCT5 [+][F]	-1.239921
PKC1 [+][C]	-1.239921
LYS12 [-][G]	-1.239921
SSN3 [-][D]	-1.239921
PGM2 [-][E]	-1.239921
PPH21 [-][C]	-1.239921
YNL127W [-][U]	-1.239921
SRB4 [+][T]	-1.215892
OYE2 [-][E]	-1.213567
SEC21 [+][O]	-1.213567
COR1 [-][E]	-1.188913
ADR1 [-][B]	-1.188913
SST2 [-][C]	-1.188913
	-1.188913

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NIP100 [-][O]	-1.188913
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PRE10 [+][F]	-1.188913
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SPS1 [-][D]	-1.188913
RNR3 [-][D]	-1.188913
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SYF1 [+][T]	-1.165765
NIP1 [+][P]	-1.165765
ATP3 [-][E]	-1.165765
CAP2 [-][C]	-1.165765
SRV2 [-][C]	-1.165765
CDC25 [+][D]	-1.165765
GRR1 [-][O]	-1.143959
PRP21 [+][T]	-1.143959
PIN3 [-][U]	-1.143959
MYO2 [+][C]	-1.143959
CDC42 [+][C]	-1.143959
YOR284W [-][U]	-1.143959
BMH1 [-][C]	-1.143959
YFR024C [-][U]	-1.123359
RPB3 [+][T]	-1.123359

RPB3 [+][T]	-1.123359
RPT4 [+][F]	-1.123359
RVB2 [+][D]	-1.123359
GFA1 [+][M]	-1.123359
RFA1 [+][D]	-1.123359
ECM29 [-][C]	-1.123359
PRP4 [+][T]	-1.103846
URA7 [-][M]	-1.103846
GAL11 [-][T]	-1.103846
SIN4 [-][B]	-1.103846
UBI4 [-][F]	-1.085320
NIP29 [+][O]	-1.067692
CDC55 [-][C]	-1.067692
RPN11 [+][F]	-1.067692
STE4 [-][C]	-1.050886
BOS1 [+][O]	-1.050886
UBP15 [-][F]	-1.050886
RAD16 [-][D]	-1.034835
ROX3 [-][B]	-1.034835
RHO1 [+][C]	-1.019480
RPN1 [-][F]	-1.019480
RPN12 [+][F]	-1.019480
RPN8 [+][F]	-1.019480
	-1.004768

SRB2 [-][T]	-1.004768

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PDB code:

Additional information on our method is provided in the following paper.

Manoj Samanta and Shoudan Liang. Normalized Cut Algorithm for Automated Assignment of Protein Domains. *Unpublished.* Download here postscript, pdf, HTML.

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In this work we start with yeast two protein interaction data from the DIP database and analyze it using a percolation based technique. of common partners every pairs of proteins have. The interactions are ranked based on their probability of occurance in a random sample and then significant pairs are studied for interesting patterns.

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