Network Biology: "*The Polarity Sub-Network in the Yeast Network of Protein-Protein Interactions*" by Paris L and Bazzoni G (Mario Negri Institute of Pharmacological Research, Italy; e-mail: gianfranco.bazzoni@marionegri.it)

Online material 1. List of protein-protein interactions in the yeast polarity network

Each protein-protein interaction is identified by the standard name of the relevant genes, as well as by the methodology used for the detection (as defined in the *Saccharomyces Genome Database*) and the published reference (as Pub Med Identification number).

Gene A	Gene B	Detection Assay	Reference		Gene A	Gene B	Detection Assay	Reference
ABP1	ACT1	Mass Spectrometry	17200106		CRN1	YCK2	Biochemical Activity	16319894
ABP1	ARK1	Western	11668184		END3	KEL1	Two-hybrid	110878867
ABP1	ARP3	Mass Spectrometry	11805837		END3	LAS1	Mass Spectrometry	16429126
ABP1	PRK1	Western	14737190		END3	PAN1	Two-hybrid	10594004
ABP1	SAC6	Mass Spectrometry	17200106		END3	SLA1	Two-hybrid	10594004
ABP1	SLA1	Western	11950888		ENT1	LAS1	Two-hybrid	11743162
ABP1	SRV2	Western	11950888		ENT1	PAN1	Two-hybrid	9531549
ABP1	ARP2	Western	11331312		ENT1	BEM3	Two-hybrid	16537494
ABP1	CLA4	Two-hybrid	11489916		ENT1	RGA1	Two-hybrid	16537494
ACT1	COF1	Biochemical Activity	10231390		ENT1	RGA2	Two-hybrid	16537494
ACT1	CRN1	Mass Spectrometry	17200106		ENT2	CDC24	Two-hybrid	11489918
ACT1	LAS1	Two-hybrid	11489916		EXO84	SEC10	Two-hybrid	10438536
ACT1	MYO1	Mass Spectrometry	16429126		EXO84	SEC15	Two-hybrid	11489918
ACT1	MYO4	Mass Spectrometry	17200106		EXO84	SEC5	Western	10438536
ACT1	MYO5	Mass Spectrometry	16429126		EXO84	SEC6	Mass Spectrometry	16429126
ACT1	SAC6	Western	9409826		EXO84	SEC8	Western	11210526
ACT1	SRV2	Mass Spectrometry	16429126		EXO84	SEC3	Mass Spectrometry	17200106
ACT1	BEM1	Western	7502048		GIC1	CDC42	Two-hybrid	9367979
ACT1	SEC10	Mass Spectrometry	16624861		GIC1	CLA4	Two-hybrid	11489918
AIP1	COF1	Two-hybrid	10366597		GIC1	ZDS1	Two-hybrid	11489918
AIP1	SRV2	Two-hybrid	11489916		GIC2	CDC42	Two-hybrid	11489918
ARC1	CDC10	Mass Spectrometry	11805837		GIC2	CLA4	Two-hybrid	11489918
ARC1	HSL1	Biochemical Activity	16319894		GIC2	GIC1	Two-hybrid	11489918
ARC1	SKM1	Biochemical Activity	16319894		GIC2	RGA1	Two-hybrid	11489918
ARC1	YCK2	Biochemical Activity	16319894		GIC2	ZDS1	Two-hybrid	11489918
ARC1	SEC10	Mass Spectrometry	16624861		GIC2	BUD6	Two-hybrid	10938101
ARK1	SLA1	Biochemical Activity	16319894		GIN4	SHS1	Biochemical Activity	16319894
ARK1	SLA2	Two-hybrid	10087264		HOF1	LAS1	Two-hybrid	11743162
ARK1	YCK2	Reconstituted Complex	12370247		HOF1	MYO3	Two-hybrid	15941409
ARK1	ENT2	Biochemical Activity	16319894		HOF1	VRP1	Two-hybrid	15941409
ARP2	MKK2	Mass Spectrometry	11805837		HOF1	BOI1	Two-hybrid	11743162
ARP2	CBK1	Mass Spectrometry	11805837		HOF1	GIC1	Two-hybrid	11489918
ARP2	SLT2	Mass Spectrometry	11805837		HOF1	BNI1	Two-hybrid	9774458
ARP2	SHS1	Mass Spectrometry	11805837		HOG1	HSL1	Biochemical Activity	16688223
ARP2	BNI1	Mass Spectrometry	11805838		HSL1	SHE3	Biochemical Activity	16319894
ARP2	ARP3	Mass Spectrometry	17200106		HYM1	KIC1	Two-hybrid	12972564
ARP2	CRN1	Western	12499356		IQG1	CMD1	Western	9950677
ARP2	LAS1	Western	10322115		IQG1	MLC1	Western	15210731
ARP2	MYO5	Western	12429847		IQG1	MYO1	Western	11082046
ARP2	PAN1	Western	11433303		KAR9	MYO2	Two-hybrid	15821138
ARP3	CMD1	Western	14554195		KCC1	ARC1	Biochemical Activity	16319894
ARP3	CRN1	Mass Spectrometry	16554755		KCC1	CDC11	Biochemical Activity	16319895

Gene A	Gene B	Detection Assay	Reference		Gene A	Gene B	Detection Assay	Reference
ARP3	LAS1	Western	10322115		KCC1	CMD1	Biochemical Activity	16319895
ARP3	MYO5	Western	12429847		KCC1	BUD6	Biochemical Activity	16319895
ARP3	PAN1	Reconstituted Complex	11433303		KEL2	KEL1	Two-hybrid	9786949
BEM1	BOI1	Two-hybrid	8666672		KIC1	CBK1	Two-hybrid	12972564
BEM1	BOI2	Two-hybrid	11489916		KIC1	TAO3	Two-hybrid	12972564
BEM1	CDC24	Two-hybrid	11489916		LAS1	MYO3	Two-hybrid	11743162
BEM1	STE20	Two-hybrid	11489917		LAS1	MYO4	Mass Spectrometry	11805837
BEM1	SEC15	Two-hybrid	11489918		LAS1	MYO5	Two-hybrid	11743162
BEM2	BUD14	Two-hybrid	16107882		LAS1	RVS161	Two-hybrid	15561700
BEM2	RHO1	Reconstituted Complex	7962098		LAS1	SLA1	Two-hybrid	11489918
BEM3	ZDS1	Two-hybrid	11489916		LAS1	SLA2	Mass Spectrometry	16429126
BNI1	MSB3	Reconstituted Complex	16166638		LAS1	VRP1	Two-hybrid	11743162
BNI1	PEA2	Co-localization	8909546		LAS1	BEM1	Western	9024694
BNI1	BUD6	Two-hybrid	9082982		MKK1	SLT2	Two-hybrid	8757399
BNI1	SPA2	Reconstituted Complex	9571251		MKK2	SLT2	Two-hybrid	8757399
BNI4	CDC10	Two-hybrid	9314530		MLC1	MYO2	Reconstituted Complex	9700160
BNI4	MSB2	Two-hybrid	11489916		MYO1	MLC1	Western	15210731
BNR1	HOF1	Two-hybrid/RC	9774458		MYO1	MYO2	Mass Spectrometry	16429126
BNR1	MYO3	Two-hybrid	11743162		MYO1	MYO4	Mass Spectrometry	16429126
BNR1	MYO5	Two-hybrid	11743163		MYO1	SPA2	Mass Spectrometry	16030260
BNR1	PFY1	Two-hybrid	11489916		MYO2	CMD1	Reconstituted Complex	9700160
BNR1	RHO4	Two-hybrid	9184220		MYO3	CMD1	Mass Spectrometry	16554755
BNR1	SMY1	Two-hybrid	10597305		MYO3	MYO5	Two-hybrid	11743162
BNR1	BUD6	Two-hybrid	10597305		MYO3	VRP1	Two-hybrid	10645568
BOI1	CDC24	Mass Spectrometry	16429127		MYO3	CLA4	Biochemical Activity	9388196
BOI1	MSB1	Two-hybrid	11489916		MYO3	STE20	Biochemical Activity	9388196
BUD2	RSR1	Biochemical Activity	8371782		MYO3	BNI1	Western	11743162
BUD3	BUD4	Two-hybrid	11283351		MYO4	MLC1	Mass Spectrometry	16554755
BUD3	CDC12	Co-localization	7730410		MYO5	CDC55	Mass Spectrometry	11805826
BUD4	CDC10	Mass Spectrometry	16429126		MYO5	CMD1	Two-hybrid	9450989
BUD4	CDC11	Mass Spectrometry	16429127		MYO5	VRP1	Two-hybrid	11743162
BUD4	SHS1	Mass Spectrometry	16429127		MYO5	BNI1	Two-hybrid	11743162
BUD4	PRK1	Biochemical Activity	16319894		PAN1	PRK1	Biochemical Activity	15711538
BUD5	AXL2	Western	11313501		PAN1	SLA1	Two-hybrid	10594004
BUD6	SPA2	Two-hybrid	9632790		PAN1	SLA2	Western	17151356
BUD6	SPH1	Two-hybrid	9443897		PAN1	YAP1801	Two-hybrid	11940605
BUD8	STE20	Two-hybrid	11489916		PAN1	SPA2	Mass Spectrometry	16030260
CAP1	CAP2	Two-hybrid	11489917		PFY1	SRV2	Two-hybrid	11489918
CAP1	GIC2	Two-hybrid	11489918		PFY1	BEM1	Co-fractionation	16854988
CAP1	TWF1	Reconstituted Complex	11604420		PFY1	BNI1	Two-hybrid	11489918
CAP2	TWF1	Reconstituted Complex	11604420		PRK1	SLA1	Two-hybrid	11739778
CBK1	MOB2	Two-hybrid	11747810		PRK1	SHE3	Biochemical Activity	16319894
CDC10	CDC11	Two-hybrid	12215547		RGA1	RHO1	Two-hybrid	11489918
CDC10	CDC12	Western	14993234		RHO1	BNI1	Two-hybrid	11489918
CDC10	CDC3	Two-hybrid	12215547		RHO1	FKS1	Co-fractionation	8662910
CDC10	GIN4	Western	12058072		RHO1	PKC1	Two-hybrid	11489918
CDC10	SHS1	Western	9813094		RHO1	ROM2	Two-hybrid	11113201
CDC10	CDC42	Co-localization	11390675		RHO1	SEC3	Two-hybrid	11283608
CDC10	CLA4	Biochemical Activity	14993234		RHO3	BNI1	Two-hybrid	10207081
CDC10	RVS161	Mass Spectrometry	16554755		RHO3	EXO70	Two-hybrid	10207081
CDC11	CDC12	Two-hybrid	11489917		RHO3	MYO2	Two-hybrid	10207081
CDC11	CDC3	Two-hybrid	12665577		RSR1	BEM1	Reconstituted Complex	9114012
CDC11	GIN4	Western	12058072		RSR1	BUD5	Biochemical Activity	8371782
CDC11	HSL1	Two-hybrid	14527412		RSR1	CDC24	Two-hybrid	11489918
CDC11	SHS1	Two-hybrid	16207085		SEC10	SEC5	Two-hybrid	10022848
CDC11	CLA4	Biochemical Activity	14993234		SEC10	SEC8	Two-hybrid	11283351

Gene A	Gene B	Detection Assay	Reference		Gene A	Gene B	Detection Assay	Reference
CDC11	GIC1	Two-hybrid	16371506		SEC15	SEC10	Two-hybrid	11283351
CDC11	GIC2	Two-hybrid	16371506		SEC3	SEC15	Mass Spectrometry	17200106
CDC12	CDC3	Two-hybrid	12215547		SEC3	SEC5	Two-hybrid	11283608
CDC12	GIN4	Western	12058072		SEC4	MSB3	Biochemical Activity	10937877
CDC12	HSL1	Two-hybrid	14527412		SEC4	MSB4	Biochemical Activity	10937877
CDC12	SHE3	Two-hybrid	11489918		SEC4	SEC3	Mass Spectrometry	9491896
CDC12	SHS1	Two-hybrid	16207085		SEC5	EXO70	Reconstituted Complex	10022848
CDC12	CLA4	Two-hybrid	11489918		SEC6	SEC5	Reconstituted Complex	10022848
CDC12	GIC1	Two-hybrid	11489918		SEC6	SEC8	Reconstituted Complex	10022848
CDC12	GIC2	Two-hybrid	11489918		SHE3	CMD1	Mass Spectrometry	16554755
CDC24	TOS2	Two-hybrid	11489918		SHE3	MLC1	Mass Spectrometry	17200106
CDC3	GIN4	Two-hybrid	9813093		SHE3	MYO4	Two-hybrid	11032818
CDC3	HSL1	Western	9925642		SHS1	YCK2	Biochemical Activity	16319894
CDC3	SHS1	Western	12058072		SHS1	SPA2	Two-hybrid	9790978
CDC3	CLA4	Biochemical Activity	14993234		SKM1	CDC42	Two-hybrid	11113198
CDC3	STE20	Biochemical Activity	16319894		SKM1	CLA4	Mass Spectrometry	14660704
CDC3	YCK2	Biochemical Activity	16319894		SLA1	SLA2	Two-hybrid	12734398
CDC42	BEM1	Two-hybrid	11489918		SLA1	SRV2	Two-hybrid	11489918
CDC42	BEM2	Two-hybrid	12145202		SLA1	VRP1	Mass Spectrometry	11805826
CDC42	BEM3	Two-hybrid	12455995		SLA1	YCK2	Biochemical Activity	16319894
CDC42	BOI1	Two-hybrid	8666672		SLA2	CLA4	Two-hybrid	11489918
CDC42	CDC24	Two-hybrid	11489918		SLG1	ROM2	Two-hybrid	11113201
CDC42	CLA4	Two-hybrid	11489918		SLT2	KIC1	Mass Spectrometry	11805837
CDC42	RGA1	Two-hybrid	7498791		SMY1	MYO2	Two-hybrid	10984058
CDC42	RGA2	Two-hybrid	12455995		SOG2	HYM1	Two-hybrid	12972564
CDC42	SEC3	Reconstituted Complex	11595741		SOG2	KIC1	Two-hybrid	11283351
CDC42	STE20	Two-hybrid	11489918		SPA2	MKK1	Two-hybrid	9632790
CDC42	BNI1	Two-hybrid	15108020		SPA2	MKK2	Two-hybrid	9632790
CDC42	MSB3	Reconstituted Complex	16166638		SPA2	MSB3	Two-hybrid	11489918
CDC42	MSB4	Reconstituted Complex	16166638		SPA2	MSB4	Two-hybrid	11489918
CHS4	CHS3	Two-hybrid	10708377		SPA2	PEA2	Two-hybrid	9632790
CHS4	YCK2	Biochemical Activity	16319894		SPH1	MKK1	Two-hybrid	9443897
CHS4	BNI4	Two-hybrid	9314530		SPH1	MKK2	Two-hybrid	9443897
CLA4	BEM1	Western	11113154		TAO3	CBK1	Two-hybrid	12972564
CLA4	BEM3	Two-hybrid	11489918		TOS2	PKC1	Two-hybrid	11489918
CLA4	BOI2	Two-hybrid	11489918		TPD3	CDC55	Mass Spectrometry	17200106
CLA4	MSB2	Two-hybrid	11489918		TPM1	CMD1	Reconstituted Complex	11474067
CLA4	RGA1	Two-hybrid	11489918		YCK2	CDC55	Mass Spectrometry	11805837
COF1	CMD1	Mass Spectrometry	11805837		YCK2	SMY1	Biochemical Activity	16319894
COF1	CRN1	Mass Spectrometry	11805837		YCK2	SHE3	Biochemical Activity	16319894
COF1	LAS1	Western	9024694		YCK2	PKC1	Biochemical Activity	16319894
COF1	SRV2	Mass Spectrometry	16554755		YPT11	MYO2	Two-hybrid	12391144
COF1	BEM1	Co-fractionation	16854988		ZDS1	SKG6	Two-hybrid	11489918
CRN1	MLC1	Mass Spectrometry	17200106		ZDS1	TPD3	Mass Spectrometry	17200106
CRN1	RVS161	Mass Spectrometry	17200106					