

Table S1. Interactions of kinases, phosphatases and associated subunits. Bait proteins listed by ORF name and gene name are subcategorized into kinase catalytic, kinase-associated, kinase metabolic/lipid, phosphatase catalytic, phosphatase-associated, phosphatase metabolic/lipid and other. Hub size rank is in relation to all other proteins in this study. All interactions are for SAINT threshold of ≥ 0.85 .

Orf Name	Gene Name	Category	Hub Rank	Interactions	Interactors
YAL040C	CLN3	Kinase Associated	300	3	[CDC28, SRP1, PRP43]
YDL155W	CLB3	Kinase Associated	16	29	[ADR1, NET1, CDC14, GIN4, BOI1, CDC25, MDS3, CDC28, TOF2, RPA190, CKS1, SIC1, ACE2, DBF2, GLE2, MIH1, NDD1, NUP100, NUP159, RPA135, YHR033W, RET1, GLN3, NUP116, TGL5, MKS1, RPB10, RPC40, ACG1]
YDL179W	PCL9	Kinase Associated	266	3	[PHO85, QCR2, NAP1]
YDR422C	SIP1	Kinase Associated	197	5	[EMI2, SNF4, MPM1, STI1, SNF1]
YER059W	PCL6	Kinase Associated	174	5	[PHO85, LAP4, SIC1, PAH1, CLB6]
YGL019W	CKB1	Kinase Associated	45	14	[CKA2, RIO1, RIO2, RAD53, BEM2, CKA1, ART5, SWE1, SAK1, CKB2, MIS1, HOT1, PSR2, HRK1]
YGL134W	PCL10	Kinase Associated	65	11	[RPM2, PHO85, YPR115W, HRR25, GSY1, GAC1, GIP2, GSY2, YKR096W, GLG1, GLG2]
YGL208W	SIP2	Kinase Associated	354	3	[SNF4, SNF1, PHB2]
YGL215W	CLG1	Kinase Associated	292	3	[LAP4, AMS1, RNQ1]
YGR108W	CLB1	Kinase Associated	217	4	[CDC28, CLB4, CKS1, SIC1]
YGR109C	CLB6	Kinase Associated	101	8	[PSH1, CDC28, CKS1, SIC1, FAR1, RAD17, PCL6, CLN2]
YHR071W	PCL5	Kinase Associated	-	-	[]
YIL050W	PCL7	Kinase Associated	694	1	[PHO85]
YIL106W	MOB1	Kinase Associated	23	23	[DBF2, GCN1, PBP4, DSK2, YPK1, VMA5, DBF20, EBS1, HRP1, QCR2, RVS167, PFK1, MIG3, MPM1, ATP3, DBP5, SAM1, RGP1, ARO1, TAF6, SEC28, DHH1, SEC16]
YJL008C	CTK2	Kinase Associated	591	1	[CTK1]
YKR038C	KAE1	Kinase Associated	468	2	[CGH121, GON7]
YLR210W	CLB4	Kinase Associated	263	3	[CDC28, CKS1, SIC1]
YML036W	CGH121	Kinase Associated	137	7	[BUD32, GON7, GRX4, KAE1, PCC1, YER078C, FET4]
YML112W	CTK3	Kinase Associated	578	1	[CTK1]
YMR199W	CLN1	Kinase Associated	280	3	[CDC28, CKS1, FAR1]
YNL025C	SSN8	Kinase Associated	59	12	[ADR1, SAP185, FKS1, MDS3, PMD1, GIS4, PIG1, GCN2, YGR250C, CDC25, BOI1, SIT4]
YNL289W	PCL1	Kinase Associated	687	1	[PHO85]
YOL001W	PHO80	Kinase Associated	127	7	[ADR1, YPR115W, LAP4, PHO81, AMS1, KIP3, PHO85]
YPL180W	TCO89	Kinase Associated	63	12	[FMP48, SAP185, KSP1, SAP4, TOR1, NNK1, NPR1, TCP1, NAP1, KOG1, CDC31, SPC110]
YPL219W	PCL8	Kinase Associated	275	3	[PHO85, GSY1, GSY2]
YPL258C	CLN2	Kinase Associated	126	7	[CDC28, CKS1, RGA1, MLF3, FAR1, CLB6, VAC14]
YPR025C	CCL1	Kinase Associated	219	4	[KIN28, TFB3, SRP1, KAP95]
YPR119W	CLB2	Kinase Associated	62	12	[SWE1, NSP1, IVY1, CDC28, GLE2, MUK1, NUP116, NUP159, NUP82, DYN2, YMR124W, NUP100]
YPR120C	CLB5	Kinase Associated	52	13	[PSH1, CDC28, CKS1, SIC1, FAR1, FIN1, LIF1, UBX6, ORC4, ORC3, MCM2, YEN1, SLD3]
YAL017W	PSK1	Kinase Catalytic	205	5	[GIP2, GLC7, GSY2, UGP1, GPH1]
YAR018C	KIN3	Kinase Catalytic	98	9	[GSC2, ADR1, SAP185, FKS1, PSH1, APJ1, MAM33, GIS4, YOL083W]
YAR019C	CDC15	Kinase Catalytic	608	1	[SIT4]
YBL009W	ALK2	Kinase Catalytic	96	9	[BEM2, KIN4, LSM12, NOP12, PWP1, UTP22, PBP4, PET127, TOR2]
YBL016W	FUS3	Kinase Catalytic	29	18	[RCK1, STE7, ADR1, NET1, FKS1, ASK10, YPR115W, CDC14, BCK2, BOI1, YMR295C, ALR1, DIG1, DIG2, NAB6, STE12, TEC1, BOI2]
YBL088C	TEL1	Kinase Catalytic	415	2	[IST1, SNF7]
YBL105C	PKC1	Kinase Catalytic	144	7	[AKL1, EDE1, SLA1, SYP1, APL3, YOL083W, LSB3]
YBR028C	YBR028C	Kinase Catalytic	228	4	[NOP12, FAA2, MIS1, YCR016W]
YBR059C	AKL1	Kinase Catalytic	83	10	[PKC1, SLA2, SLA1, CKA2, EDE1, ARK1, BMH1, SAP185, CMK1, PAN1]
YBR097W	VPS15	Kinase Catalytic	583	1	[VPS34]
YBR136W	MEC1	Kinase Catalytic	115	8	[STI1, IST1, RFA2, SNF7, LCD1, RFA1, YCP4, RFA3]
YBR160W	CDC28	Kinase Catalytic	50	14	[SWE1, CLB2, KIN2, CAK1, CLN3, CLB3, CLB1, CLB6, CLN1, CLN2, CLB5, CLB4, CKS1, SIC1]
YBR274W	CHK1	Kinase Catalytic	66	11	[NET1, CDC14, RRN9, SIR2, TOF2, CDC37, LRS4, RPA135, RPA190, YMR102C, RRN10]
YCL024W	KCC4	Kinase Catalytic	99	9	[NAP1, CDC10, CDC11, CDC12, CDC3, SHS1, CDC14, NOG1, RIM11]
YCR008W	SAT4	Kinase Catalytic	731	1	[MIS1]
YCR073C	SSK2	Kinase Catalytic	173	6	[SSK1, SSK2, SEC7, ENP1, MMF1, PBS2]
YCR091W	KIN82	Kinase Catalytic	882	1	[PPF2]
YDL017W	CDC7	Kinase Catalytic	642	1	[DBF4]
YDL025C	YDL025C	Kinase Catalytic	36	16	[CKA2, NOG1, HAS1, NOC3, NET1, ERB1, YTM1, UTP22, RRS1, BEM2, NOP12, NOP7, NOP13, CDC14, ARC1, GUS1]
YDL028C	MPS1	Kinase Catalytic	14	31	[CMD1, HRR25, NBP2, SPC110, SPC29, SPC42, CDC31, NUF2, BFA1, DSN1, OKP1, SF1, SPC105, SPC24, SPC25, TID3, MIF2, NNF1, NSL1, NUD1, MTW1, AME1, CNN1, NKP1, CTF3, RPM2, MLC1, GCD6, BEM1, YIL151C, YKR096W]
YDL079C	MRK1	Kinase Catalytic	179	5	[LAP4, RVB2, SAP185, CCT3, MCM4]
YDL101C	DUN1	Kinase Catalytic	97	9	[CDC14, NET1, YGR130C, YMR031C, ATG19, PST2, YCP4, YMR088W, HRP1]
YDL108W	KIN28	Kinase Catalytic	180	5	[CCL1, TFB3, RVB2, LYS12, SSL1]
YDL159W	STE7	Kinase Catalytic	69	11	[CDC14, SPC110, DSK2, KSS1, EBS1, HRP1, FUS3, SPC29, HHT1, HOG1, SDP1]
YDL214C	PRR2	Kinase Catalytic	253	4	[ADR1, MPM1, LRS4, CSM1]
YDR122W	KIN1	Kinase Catalytic	35	16	[ASK10, CBK1, MOB2, YPR115W, PSH1, YMR124W, ATG19, BUD14, GLC7, BCK2, KEL1, KEL2, YOL083W, SWE1, ELM1, GIS4]
YDR247W	VHS1	Kinase Catalytic	18	28	[BMS1, IK3, NUM1, YGR237C, SEF1, ELP2, MSN1, MAM33, PTC4, RCL1, FAU1, YNL285W, NET1, ASK10, YPR115W, CDC14, ELP3, RRN9, SIR2, TOF2, LRS4, RPA135, IMP2, CIN5, CYR1, GLC7, RRN10, CSM1]
YDR283C	GCN2	Kinase Catalytic	166	6	[HRR25, YPR115W, KIN2, NPR1, SSN8, YMR1]
YDR466W	PKH3	Kinase Catalytic	58	13	[PAM1, NOP12, NOG1, RPF1, BCK1, PWP1, CIC1, ERB1, MRM1, MIS1, MAK5, BFR2, YER180C]
YDR477W	SNF1	Kinase Catalytic	103	8	[SIP2, NET1, CDC14, SNF4, GAL83, SIP1, NPR1, HRK1]
YDR490C	PKH1	Kinase Catalytic	303	3	[PTK2, CKA2, FPR3]
YDR507C	GIN4	Kinase Catalytic	57	13	[NAP1, BNI5, CDC10, CDC11, CDC12, CDC3, SHS1, RAD53, MKK1, CLB3, BCK1, HSL1, RIM11]
YDR523C	SPS1	Kinase Catalytic	625	1	[AROB]
YER123W	YCK3	Kinase Catalytic	210	4	[GAL7, MIS1, YOL083W, SFB2]
YER129W	SAK1	Kinase Catalytic	67	11	[SIR2, BEM2, CKB1, CKA1, CKA2, HRR25, CDC14, SPC42, SPC110, CNM67, NUD1]
YFL029C	CAK1	Kinase Catalytic	426	2	[CDC28, TWF1]
YFL033C	RIM15	Kinase Catalytic	425	2	[KIN2, HRR25]
YFR014C	CMK1	Kinase Catalytic	614	1	[AKL1]
YGL021W	ALK1	Kinase Catalytic	-	-	[]
YGL059W	PKP2	Kinase Catalytic	825	1	[PKP1]
YGL083W	SCY1	Kinase Catalytic	-	-	[]
YGL119W	ABC1	Kinase Catalytic	604	1	[CTT4]
YGL158W	RCK1	Kinase Catalytic	4	50	[HRR25, RPA135, SPT8, GCD11, SWI3, RPM2, NGG1, TRA1, TAF12, TAF5, TAF6, ARP4, SNF2, SW1, ADA2, EAF1, EPL1, FUS3, GAL11, GCN5, HFI1, MED1, MED4, MED6, NUT1, NUT2, RGR1, SGF29, SGF73, SIN4, SNF12, SNF5, SPT20, SPT3, SPT7, SRB4, SRB8, SSN2, TAF10, UBP8, YAF9, PHO85, SRB7, TOR1, FUN12, SNF6, SOH1, SWP82, SSN3, RPC40]

Orf Name	Gene Name	Category	Hub Rank	Interactions	Interactors
YGL179C	TOS3	Kinase Catalytic	-	-	[]
YGL180W	ATG1	Kinase Catalytic	178	5	[ATG11, GAL7, ATG13, ATG17, CIS1]
YGR040W	KSS1	Kinase Catalytic	85	10	[STE7, ASK10, TSC11, YPR115W, BCK2, DIG1, DIG2, STE12, TEC1, KDX1]
YGR052W	FMP48	Kinase Catalytic	13	31	[KSP1, PUF3, TOR1, LST8, MKS1, GIP2, GLC7, PIG2, TCO89, ADR1, NET1, ASK10, CDC14, GSY1, KOG1, BOI1, CSR2, PMD1, GCD11, RPA135, RPA190, HIS4, IML1, YLR072W, TOM1, SIR2, UFD4, NUP170, RSP5, GSY2, GCD6]
YGR092W	DBF2	Kinase Catalytic	111	8	[MOB1, YPK1, CLB3, NET1, SAP185, CDC14, ZWF1, MKT1]
YGR188C	BUB1	Kinase Catalytic	484	2	[BUB3, IST1]
YGR262C	BUD32	Kinase Catalytic	323	3	[CGI121, NAP1, RRP46]
YHL007C	STE20	Kinase Catalytic	396	2	[CBK1, EBS1]
YHR030C	SLT2	Kinase Catalytic	25	21	[BCK1, MKK1, KIN2, MKK2, KIC1, RLM1, ROM1, ROM2, SKG3, SOG2, SSK2, MPM1, CBF5, DSK2, HRP1, SRP54, MSF1, DIG1, ASC1, EBS1, STE12]
YHR079C	IRE1	Kinase Catalytic	-	-	[]
YHR082C	KSP1	Kinase Catalytic	71	11	[KIN2, FMP48, KDX1, TPK2, YML6, TOR1, TCO89, TRA1, LST8, CDC55, KOG1]
YHR099W	TRA1	Kinase Catalytic	9	37	[RCK1, SAP185, KSP1, ADR1, SPT8, YOL083W, NNG1, TAF12, TAF5, TAF6, ARP4, TAF9, ADA2, EAF1, EPL1, GCN5, HFI1, SGF29, SGF73, SPT20, SPT3, SPT7, SUS1, SWC4, TAF10, UBP8, YAF9, YNG2, EAF5, SGF11, MSN4, EAF3, EAF6, EAF7, ESA1, HSF1, RTG3]
YHR102W	KIC1	Kinase Catalytic	77	10	[SLT2, SKP1, MDM30, PFK1, KAP123, SAM1, SUB2, CCT8, NTH2, SOG2]
YHR135C	YCK1	Kinase Catalytic	88	9	[YPR115W, NSP1, NUP169, NUP170, MEX67, NIC96, NUP188, NUP192, NUP82]
YHR205W	SCH9	Kinase Catalytic	-	-	[]
YIL035C	CKA1	Kinase Catalytic	17	28	[CKA2, RIO1, CDC14, NET1, RIO2, HOG1, CKB1, RRN9, SIR2, TOF2, RIF1, RPA135, RPA190, HOT1, SSN3, SAK1, MGM101, RPC40, PSR2, UAF30, CKB2, CHD1, IFH1, MNR2, RRP15, UTP22, PWP1, RRP7]
YIL042C	PKP1	Kinase Catalytic	470	2	[PKP2, SAP185]
YIL095W	PRK1	Kinase Catalytic	34	16	[SLA2, PWP1, PAB1, END3, PAN1, SLA1, VRP1, YAP1801, YAP1802, FKS1, DYN2, ENT1, YSC84, CDC14, YRA1, CMD1]
YIL147C	SLN1	Kinase Catalytic	-	-	[]
YJL057C	IKS1	Kinase Catalytic	107	8	[PBP4, SIS1, EBS1, HRP1, NAB6, YGR250C, DBP2, DSK2]
YJL095W	BCK1	Kinase Catalytic	2	53	[CDC14, CDC55, EBP2, FPR3, KEM1, NOP12, NOP13, PET127, RRP12, CBP1, GSY1, HAS1, MRM1, NBP2, NOP2, NOP4, PAM1, POL5, PTC1, PWP1, RGD2, SLM1, UTP22, DBP7, FAA2, MAK5, RRP5, RRS1, SLH1, TOR2, UTP20, KDX1, MKK1, MKK2, SLT2, NOG1, DRS1, CBS1, RRP1, POX1, AEP1, NOP7, STT4, PET309, CSM1, RPF2, PKH3, CIC1, GIN4, NAP1, KOG1, MYO3, CKA2]
YJL106W	IME2	Kinase Catalytic	75	10	[SIS1, VID30, ASK10, YPR115W, KOG1, TGL1, CDH1, MUB1, LST8, ACM1]
YJL128C	PBS2	Kinase Catalytic	90	9	[NET1, SSK2, CDC14, MRM1, MSG5, SSK1, SSK22, NOP15, MAM33]
YJL141C	YAK1	Kinase Catalytic	134	7	[TPK2, YPL247C, HAP1, FKS1, SWD1, YMR296C, VMA7]
YJL164C	TPK1	Kinase Catalytic	49	14	[SPT5, RPB2, GIP2, RPO21, BCY1, RPB11, RPB3, RPB4, RPB7, TFG1, TPK2, YMR198W, TPK3, RPB10]
YJL165C	HAL5	Kinase Catalytic	589	1	[MMF1]
YJL187C	SWE1	Kinase Catalytic	22	24	[CKA2, CMD1, CDC14, KIN2, SPC110, SPC42, CDC31, CDC28, CKS1, CLB2, BUD14, KIN1, GLC7, KEL1, KEL2, VPS35, HSL7, PEP8, VPS29, CKB1, MYO2, MLC1, PET309, SPC29]
YJR059W	PTK2	Kinase Catalytic	130	7	[TIF4631, ARB1, FPR3, PKH1, MIS1, NOP12, RRP12]
YJR068W	TOR1	Kinase Catalytic	30	18	[CDC55, FMP48, SAP185, NNK1, KDX1, SKY1, KSP1, RCK1, RTG3, SAP4, LST8, CDC14, KOG1, TCO89, NPR1, MKS1, TAX4, YLR108C]
YKL048C	ELM1	Kinase Catalytic	327	3	[KIN1, NPR2, KIN2]
YKL101W	HSL1	Kinase Catalytic	378	2	[GIN4, NAP1]
YKL116C	PRR1	Kinase Catalytic	410	2	[GFA1, PHO85]
YKL128W	YPK1	Kinase Catalytic	110	8	[DBF2, MOB1, TSC11, TIF5, DBF20, GIS4, AVO1, TOR2]
YKL139W	CTK1	Kinase Catalytic	139	7	[GBP2, HRB1, IMG1, UTP22, CTX2, CTX3, NPL3]
YKL161C	KDX1	Kinase Catalytic	47	14	[KSP1, POG1, BCK1, TOR1, KIN2, KSS1, DIG1, DIG2, STE12, TEC1, MKK2, MSG5, RLM1, GAT1]
YKL166C	TPK3	Kinase Catalytic	191	5	[GIP2, GPH1, BCY1, TPK1, TPK2]
YKL168C	KKQ8	Kinase Catalytic	388	2	[BMH1, UBC1]
YKL171W	NNK1	Kinase Catalytic	48	14	[SEC23, TOR1, TOR2, URE2, GDH2, HRR25, LST8, KOG1, TCO89, YIL151C, VPS35, SEC24, MCK1, BMH1]
YKL198C	PTK1	Kinase Catalytic	80	12	[ACC1, BFR1, KEM1, CCT3, RRP5, CCT2, THS1, MBF1, GRX1, DED61, ADE3, KGD1]
YKL203C	TOR2	Kinase Catalytic	72	11	[CDC14, BCK1, NNK1, MIH1, RIO2, LST8, AVO1, TSC11, NPR1, YPK1, ALK2]
YLL019C	KNS1	Kinase Catalytic	27	18	[NOP12, PWP1, TCP1, KEM1, PET127, RRP12, RRP5, MRM1, NOP4, POL5, SRP1, NOG1, NOP9, MAK5, GBP2, UTP22, HRB1, PRP43]
YLR096W	KIN2	Kinase Catalytic	6	42	[KSP1, ASK10, SEC23, CBK1, MOB2, YPR115W, YMR124W, BUD14, GLC7, GIS4, BCK2, KEL1, KEL2, YOL083W, SFB2, SWI6, SWE1, KDX1, RIO2, SLT2, CDC28, GCN2, PSH1, NET1, YBL104C, CKA2, FKS1, CDC14, KOG1, RTC1, IML1, RMD11, ZRG8, RIM15, YOR083C, SEH1, YDR239C, NPR2, BOI1, MTC5, MIH1, ELM1]
YLR113W	HOG1	Kinase Catalytic	51	14	[YPR115W, HOT1, CKA2, CKA1, ASK10, STE7, CKB2, DSK2, HRP1, NSR1, RCK2, BFR1, YAR010C, TEF4]
YLR248W	RCK2	Kinase Catalytic	383	2	[ATP4, HOG1]
YLR253W	YLR253W	Kinase Catalytic	-	-	[]
YLR362W	STE11	Kinase Catalytic	169	6	[PBP4, TIF4631, PAB1, EBS1, STE50, IFH1]
YMR001C	CDC5	Kinase Catalytic	160	6	[PDS5, IRR1, IY1, MCD1, SMC1, SMC3]
YMR104C	YPK2	Kinase Catalytic	321	3	[ATG19, LAP4, FPS1]
YMR139W	RIM11	Kinase Catalytic	89	9	[NAP1, TIF4632, GLN3, GCR2, YJR029W, PMD1, UME6, GIN4, KCC4]
YMR216C	SKY1	Kinase Catalytic	136	7	[GBP2, HRB1, TOR1, MU2, MSL5, SCS2, LSB3]
YMR291W	YMR291W	Kinase Catalytic	270	3	[LEU1, PDI1, SKP1]
YNL020C	ARK1	Kinase Catalytic	44	14	[SLA2, ABP1, TIF4631, ARB1, AKL1, END3, LSB3, MYO2, PAN1, SLA1, YAP1801, YAP1802, FKS1, VRP1]
YNL154C	YCK2	Kinase Catalytic	-	-	[]
YNL161W	CBK1	Kinase Catalytic	33	17	[KIN2, KIN1, ACE2, MOB2, TAO3, ZRG8, CDC14, TIF4631, CDC33, STE20, TIF4632, PAB1, EAP1, MRP8, FIR1, YOL039W, SLM1]
YNL183C	NPR1	Kinase Catalytic	38	15	[TOR2, LST8, RSP5, TOR1, KOG1, TCO89, GIS4, SNF1, SNF4, GCN2, BUL1, GAL83, YDL173W, HRR25, SPT2]
YNL207W	RIO2	Kinase Catalytic	15	30	[CKA1, CKA2, CKB1, BEM2, CKB2, SLM1, UTP22, ASK10, DBP10, KRE33, MIS1, TOR2, KIN2, YPR115W, AVO2, RIO1, SLM2, IDP1, NUM1, RRP15, MMS1, FOL2, BFR2, PXR1, AVO1, ARD1, URB1, SSN3, YHL018W, LSM12]
YNL298W	CLA4	Kinase Catalytic	153	6	[FKS1, RIM1, NBP2, GBP2, HRB1, GSC2]
YNL307C	MCK1	Kinase Catalytic	10	35	[NPR2, CHS2, KRE8, RMD11, SEC13, MTC5, RTC1, NET1, YBL104C, NOP15, FKS1, ASK10, PSH1, YPR115W, CDC14, CDC25, MDS3, PMD1, YBR225W, NNK1, YOL083W, YMR296C, IML1, YLR072W, ITR1, MNR2, SEH1, PRM5, STE2, YER160C, YBL100W-A, YER138C, URE2, YNL058C, ALR1]
YNR031C	SSK2	Kinase Catalytic	209	5	[SSK22, SSK1, PRX1, PBS2, SLT2]
YNR047W	FPK1	Kinase Catalytic	213	4	[SYP1, SOG2, NUP157, IOC3]
YOL016C	CMK2	Kinase Catalytic	478	2	[EDE1, SYP1]
YOL045W	PSK2	Kinase Catalytic	479	2	[UGP1, SAM1]
YOL100W	PKH2	Kinase Catalytic	744	1	[NOP12]
YOL113W	SKM1	Kinase Catalytic	223	4	[NBP2, PTC1, MEX67, YRA1]
YOL128C	YGK3	Kinase Catalytic	163	6	[MTC1, GCD6, PUF3, SAM1, SPT16, LSM12]

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YOR061W	CKA2	Kinase Catalytic	7	41	[YDL025C, SWE1, CKA1, CKB1, CDC14, RRS1, ATG9, NET1, SIR2, TOF2, SPT16, CHD1, HOT1, RIO1, RIO2, AKL1, VHS3, HOG1, SAP185, PKH1, RRP1, CIC1, CKB2, NOP7, ERB1, KIN2, BEM2, SEC7, ASK10, PRP43, RPA190, MKS1, DOM34, SAK1, PSR2, SEC23, CSM1, PXR1, MIH1, BCK1, HRK1]
YOR119C	RIO1	Kinase Catalytic	78	10	[CKA1, CKA2, CKB1, TCP1, CKB2, RIO2, NET1, CDC14, PRP43, ART5]
YOR231W	MKK1	Kinase Catalytic	161	6	[BCK1, SLT2, RGD1, GIN4, FYY8, SPA2]
YOR233W	KIN4	Kinase Catalytic	116	8	[ALK2, NOP12, NOG1, RRP14, DRS1, RPF2, RRS1, ERB1]
YOR267C	HRK1	Kinase Catalytic	8	40	[DRS1, NOC2, CBF5, NOP1, NOP7, NUG1, SRP40, CIC1, EBP2, FPR4, GIS4, NOG1, ERB1, FPR3, HAS1, LOC1, MAK16, MRT4, NOP2, NSA1, NSA2, REG1, RLP7, RPF1, RPF2, RRS1, SNF1, SNF4, SPB1, YTM1, NOC3, RRP15, RRP1, PWP1, YRA1, CKB1, TIF6, YPL260W, CKA2, NPL3]
YOR351C	MEK1	Kinase Catalytic	-	-	[]
YPL026C	SKS1	Kinase Catalytic	186	5	[BOP3, ACC1, SEF1, UTR1, NFS1]
YPL031C	PHO85	Kinase Catalytic	40	15	[RCK1, PCL10, PCL7, PCL1, PCL8, PCL9, PHO80, GSY1, GSY2, MMR1, PCL2, PHO81, PRR1, YJL181W]
YPL042C	SSN3	Kinase Catalytic	43	14	[RCK1, BEM2, KRE33, CKA1, BFR2, RIO2, BFR1, SCP160, ERB1, SEC23, TSR1, TMA10, RRB1, PBP4]
YPL109C	YPL109C	Kinase Catalytic	211	4	[KEM1, TAX4, OCT1, IDP1]
YPL140C	MKK2	Kinase Catalytic	46	14	[KDX1, GCN1, PBP4, BCK1, GCD6, HRP1, RVS161, RVS167, SAM1, SLT2, PFK1, DBP5, RGD1, RNQ1]
YPL141C	YPL141C	Kinase Catalytic	32	17	[POL5, FAA3, TPA1, NOP12, PWP1, MAK5, RRP12, RLP7, MRM1, NOP7, RRP1, MAM33, CIC1, ERB1, RRP14, RPF2, MAK2]
YPL150W	YPL150W	Kinase Catalytic	798	1	[NAP1]
YPL153C	RAD53	Kinase Catalytic	28	18	[YT7A, GIN4, ATG19, CDC10, CDC11, CDC12, CDC3, SHS1, BUD3, BUD4, RAD9, TBF1, VID22, YGR071C, CKB1, BNI5, YGR130C, NUM1]
YPL203W	TPK2	Kinase Catalytic	12	33	[TPK1, TPK3, KSP1, SPT5, RPB2, GIP2, CDC25, MDS3, PMD1, RPO21, NPA3, BCY1, RPO10, RPB10, RPB11, RPB3, RPB4, RPB5, RPB7, RTR1, TFG1, RPO28, SPT8, MST1, RPB8, SPN1, YAK1, YBR225W, YPL247C, RPB9, TFG2, TAF14, MSN4]
YPL204W	HRR25	Kinase Catalytic	5	44	[MPS1, GCN2, RCK1, EDE1, ATG19, CDC25, MDS3, NNK1, GIS4, HAA1, CRZ1, PIN4, PCL10, YBL104C, GSY1, PMD1, YOL083W, DNM1, NUP159, GAC1, IRA1, RIM15, SAK1, SAP185, MIH1, RPM2, YBR225W, LAP4, NSP1, GSY2, URE2, IRA2, WHI3, PUF3, RTG3, BUL2, BCK2, MSN4, YKR096W, NUP82, NPR1, ATG11, AMS1, NAM7]
YPL209C	IPL1	Kinase Catalytic	212	4	[BIR1, CBF2, PSE1, SLI15]
YPR054W	SMK1	Kinase Catalytic	394	2	[SAP185, NDE2]
YPR106W	ISR1	Kinase Catalytic	55	13	[PBP4, EBS1, CHS2, GFA1, ATP3, NAB6, TY81, HRP1, KEM1, KRE33, YPR115W, BFR1, TES1]
YPR111W	DBF20	Kinase Catalytic	232	4	[MOB1, SAP185, YPK1, MKT1]
YPR161C	SGV1	Kinase Catalytic	76	10	[GCN1, GCD6, HRB1, GBP2, RIM1, BUR2, MGM101, BFR2, SLF1, NUG1]
YAL038W	CDC19	Kinase Metabolic/Lipid	-	-	[]
YCR012W	PGK1	Kinase Metabolic/Lipid	-	-	[]
YDR147W	EK1	Kinase Metabolic/Lipid	-	-	[]
YDR208W	MSS4	Kinase Metabolic/Lipid	-	-	[]
YDR228W	ADK1	Kinase Metabolic/Lipid	-	-	[]
YDR300C	PRO1	Kinase Metabolic/Lipid	-	-	[]
YDR454C	GUK1	Kinase Metabolic/Lipid	-	-	[]
YFL053W	DAK2	Kinase Metabolic/Lipid	-	-	[]
YFR019W	FAB1	Kinase Metabolic/Lipid	556	1	[VAC14]
YHL032C	GUT1	Kinase Metabolic/Lipid	393	2	[RHR2, HOR2]
YHR025W	THR1	Kinase Metabolic/Lipid	-	-	[]
YJR057W	CDC8	Kinase Metabolic/Lipid	216	4	[NET1, CDC14, RRN8, SIR2]
YKL001C	MET14	Kinase Metabolic/Lipid	409	2	[NET1, CDC14]
YKL024C	URA6	Kinase Metabolic/Lipid	-	-	[]
YLR133W	CK1	Kinase Metabolic/Lipid	878	1	[NAP1]
YLR240W	VPS34	Kinase Metabolic/Lipid	380	2	[VPS15, VPS30]
YLR260W	LCB5	Kinase Metabolic/Lipid	-	-	[]
YLR305C	STT4	Kinase Metabolic/Lipid	309	3	[BCK1, EFR3, YPP1]
YLR410W	VIP1	Kinase Metabolic/Lipid	603	1	[KGD2]
YML070W	DAK1	Kinase Metabolic/Lipid	-	-	[]
YMR208W	ERG12	Kinase Metabolic/Lipid	-	-	[]
YNL267W	PIK1	Kinase Metabolic/Lipid	594	1	[FRQ1]
YNR012W	URK1	Kinase Metabolic/Lipid	395	2	[FUR1, DAS2]
YOR171C	LCB4	Kinase Metabolic/Lipid	705	1	[CLB1]
YAL041W	CDC24	Other	86	10	[BOI1, BEM1, RGA2, SCD6, DCP2, RRG1, EBP2, DRS1, NOP13, FAR1]
YBL103C	RTG3	Other	39	15	[RPM2, TRA1, TCP1, TOR1, KOG1, DAL81, RTG1, MKS1, ARP8, LST8, HRR25, ATG17, ADA2, SWI3, SNF12]
YBR095C	RXT2	Other	156	6	[ATG5, SRP1, LYS12, RVS161, SAN1, ATG16]
YCR002C	CDC10	Other	87	10	[KCC4, GIN4, RAD53, BUD3, BUD4, CDC11, CDC12, CDC3, SHS1, SAM1]
YDL042C	SIR2	Other	42	15	[CDC14, CKA2, ADR1, NET1, SAK1, DNM1, TOF2, RIF1, YKL023W, VHS1, CHK1, CKA1, ERB1, FMP48, CDC8]
YDR074W	TPS2	Other	267	3	[TPS3, TPS1, PDA1]
YDR216W	ADR1	Other	37	16	[PRR2, PTP2, TRA1, KIN3, CLB3, SIR2, NET1, SPT20, TAF6, FUS3, FMP48, PHO80, SSN8, BMH1, SPT8, SPT7]
YDR251W	PAM1	Other	359	3	[PKH3, BCK1, CHC1]
YER095W	RAD51	Other	778	1	[RAD52]
YER125W	RSP5	Other	11	33	[CDC14, ALY1, BUL2, NPR1, SEC7, FKS1, YDR348C, YHR097C, ART5, CSR2, ECM21, RPB2, RPO21, RPB3, ALY2, SPT5, RPB11, RPB4, TFG1, TFG2, YLR392C, BUL1, FMP48, RPC10, RPB10, RPB5, RPO26, RPB8, RPB7, ITR1, SNA3, ROD1, EAR1]
YER167W	BCK2	Other	70	11	[KIN2, KIN1, KSS1, FUS3, BUD14, KEL1, KEL2, GLC7, BMH1, SWI4, HRR25]
YER177W	BMH1	Other	24	21	[NET1, AKL1, PUF3, ASK10, YPR115W, CDC14, AIM21, BOI2, CDC25, CSR2, CYK3, ECM21, PMD1, REG1, TGL1, NNK1, ADR1, KKQ8, BCK2, GLC7, HAA1]
YGL252C	RTG2	Other	683	1	[MKS1]
YGR080W	TWF1	Other	181	5	[CAK1, BEM2, ART5, SRV2, NOP15]
YGR097W	ASK10	Other	31	18	[CDC14, KIN2, KIN1, KSS1, RIO2, GLC7, HOG1, VHS1, FUS3, FMP48, ERB1, NOG1, YPR115W, IME2, CKA2, MCK1, BMH1, NSA1]
YHR084W	STE12	Other	143	7	[KSS1, KDX1, FUS3, DIG1, DIG2, TEC1, SLT2]
YIL144W	TID3	Other	147	7	[MPS1, NUF2, SPC24, TIF3, TFP1, SHE3, ARC35]
YIR008C	PAN1	Other	176	5	[PRK1, ARK1, AKL1, DNF1, END3]
YJL076W	NET1	Other	19	28	[CDC14, DUN1, CKA2, CKA1, YDL025C, PSR2, KIN2, CLB3, SIR2, ADR1, VHS1, SNF1, FUS3, CHK1, FMP48, DBF2, YGR203W, PBS2, TOF2, RPA135, RPA190, CAC2, CDC8, MET14, RIO1, MCK1, BMH1, PTC7]
YJL157C	FAR1	Other	154	6	[CLB6, CDC24, CLB5, CLN1, CLN2, MPM1]
YJR090C	GRR1	Other	286	3	[SKP1, CDC53, GCD6]
YJR144W	MGM101	Other	272	3	[CAK1, SGV1, RIM1]
YKR021W	ALY1	Other	372	3	[CDC14, RSP5, SEC7]
YLL003W	SF1	Other	504	2	[MPS1, CDC31]
YLL013C	PUF3	Other	81	10	[FMP48, RPM2, PAB1, CCR4, BMH1, PET309, YGK3, HRR25, ATG17, LAP4]
YLR006C	SSK1	Other	258	4	[SSK22, SSK2, PBS2, SPC110]
YLR079W	SIC1	Other	91	9	[CLB3, CLB6, CLB5, PCL6, CLB1, NPT1, CDC14, CLB4, CDC28]

Orf Name	Gene Name	Category	Hub Rank	Interactions	Interactors
YML111W	BUL2	Other	100	8	[RSP5, MRM1, RRP5, NOP4, UTP22, HRR25, RPM2, KEM1]
YMR172W	HOT1	Other	170	6	[HOG1, CKA2, CKA1, NAP1, CKB1, CKB2]
YNL001W	DOM34	Other	175	5	[CKA2, CDC14, DRS1, TGL1, NOP12]
YNL076W	MKS1	Other	79	10	[FMP48, CKA2, MYO2, TOR1, KOG1, RTG2, RTG3, SAP185, SAP4, CLB3]
YNL128W	TEP1	Other	616	1	[MPM1]
YNL217W	YNL217W	Other	152	6	[ENA5, ITR1, CPS1, STE2, KTR1, PPN1]
YPL089C	RLM1	Other	234	4	[KDX1, SLT2, KAP95, SRP1]
YPL137C	GIP3	Other	390	2	[GLC7, RPB2]
YPR115W	YPR115W	Other	21	25	[KIN2, HOG1, KIN1, GCN2, KSS1, RIO2, VHS1, FUS3, PCL10, ASK10, IME2, PHO80, YVH1, CMP2, MCK1, ISR1, YCK1, BMH1, ERB1, RRS1, RLP7, NOG1, FPR3, PWP1, NOP7]
YFR040W	SAP165	Phosphatase Associated	306	3	[SIT4, NUF2, TIP41]
YGL190C	CDC55	Phosphatase Associated	26	21	[BCK1, TOR1, KSP1, SPC42, TPD3, HOM3, PPH21, ZDS1, CCT3, CCT7, CCT2, CCT5, ZDS2, RTS3, PPG1, TCP1, PPH22, SSU72, CCT4, PDI1, CCT6]
YGL229C	SAP4	Phosphatase Associated	155	6	[TOR1, KOG1, TCO89, TIP41, MKS1, LST8]
YGR161C	RTS3	Phosphatase Associated	120	8	[PPH22, PPH21, SAP185, SIT4, CDC55, TPD3, SPC110, SAP190]
YIL045W	PIG2	Phosphatase Associated	112	8	[FMP48, KAP95, MAM33, GSY1, GLC7, SRP1, GPH1, GSY2]
YJL098W	SAP185	Phosphatase Associated	20	26	[TOR1, TCO89, TRA1, EAF1, TIP41, EPL1, CKA2, RTS3, YAF9, SIT4, YHL018W, KIN3, DBF2, BEM2, IDP1, KOG1, SYP1, PKP1, SSN8, SMK1, DBF20, MRK1, HRR25, MKS1, AKL1, LST8]
YOR014W	RTS1	Phosphatase Associated	106	8	[CLU1, TPD3, PST2, MIS1, GCN1, PTR3, YGR130C, PPH21]
YBL056W	PTC3	Phosphatase Catalytic	243	4	[RVS161, PAA1, ATP3, FAA4]
YBR125C	PTC4	Phosphatase Catalytic	242	4	[PAA1, VHS1, CHC1, SRP1]
YCR079W	PTC6	Phosphatase Catalytic	125	8	[PDB1, PDA1, HCR1, LAT1, LPD1, PDX1, PRO2, MRP51]
YDL006W	PTC1	Phosphatase Catalytic	483	2	[BCK1, SKM1]
YDL047W	SIT4	Phosphatase Catalytic	41	15	[CCT3, TAP42, CCT2, CCT7, CCT6, SAP155, SAP185, VMA5, TCP1, SAP190, RTS3, UBR1, CDC15, CCT4, SSN8]
YDL134C	PPH21	Phosphatase Catalytic	117	8	[RVB2, RTS3, TAP42, GAL7, CDC55, TPD3, RTS1, BTN2]
YDL188C	PPH22	Phosphatase Catalytic	204	5	[SCJ1, RVB2, RTS3, TAP42, CDC55]
YDL230W	PTP1	Phosphatase Catalytic	167	6	[GSC2, RIF1, FKS1, CDC14, YER180C, NOP12]
YDR436W	PPZ2	Phosphatase Catalytic	145	7	[VHS3, SDS22, CAB3, SIS2, HAL1, YPI1, PPZ1]
YER075C	PTP3	Phosphatase Catalytic	-	-	[]
YER089C	PTC2	Phosphatase Catalytic	450	2	[BCY1, PAA1]
YER133W	GLC7	Phosphatase Catalytic	1	63	[KIN2, PSK1, KIN1, FMP48, SWE1, FPR3, FPR4, NOG1, GSY1, HAS1, NOP2, RPF2, ASK10, CIC1, NOP7, RRS1, NOC3, RIF1, ERB1, SUI2, SUI3, SPB1, GAC1, GSY2, BUD21, CDC123, GCD11, GLC8, PTI1, REF2, SCD5, SDS22, UGP1, SEN1, GIP2, LOC1, NUG1, NIP7, RLP7, RRP1, TIF6, NSA1, SEC17, PIG2, MAM33, BUD14, KEL1, KEL2, REG1, HER1, GIP3, BNI4, GIP4, IMP2, JIP4, MHP1, PTA1, YPI1, AFR1, VHS1, BCK2, BMH1, SYN8]
YFR028C	CDC14	Phosphatase Catalytic	3	53	[BCK1, ASK10, BOI1, TOR2, ACE2, ALY1, AVO1, NET1, PUF2, RBL2, RIF1, RRN10, RRN9, SIR2, TOF2, YDR239C, YOR093C, STE7, DUN1, SWE1, CKA2, CKA1, RSP5, CSM1, CBK1, LRS4, ATG9, KCC4, PSR2, KIN2, PTP1, CLB3, YDL025C, VHS1, SNF1, FUS3, CHK1, FMP48, DBF2, YGR203W, PBS2, CDC8, TOR1, RIO1, MCK1, SAK1, BMH1, PRK1, YVH1, DOM34, MET14, PTC7, SIC1]
YGR123C	PPT1	Phosphatase Catalytic	-	-	[]
YGR203W	YGR203W	Phosphatase Catalytic	289	3	[NET1, CDC14, RPA190]
YHR076W	PTC7	Phosphatase Catalytic	229	4	[SEC14, NET1, CDC14, ITR1]
YIL113W	SDP1	Phosphatase Catalytic	405	2	[BEM2, STE7]
YIR028C	YVH1	Phosphatase Catalytic	61	12	[LSG1, NMD3, YPR115W, CRT10, MMS1, ERB1, CDC14, APL4, CIC1, RRP5, TAX4, YKL023W]
YLR019W	PSR2	Phosphatase Catalytic	74	10	[NET1, CDC14, RIF1, CKA2, CKA1, CKB1, RPA135, RPA190, PFK2, CLU1]
YLR433C	CNA1	Phosphatase Catalytic	168	6	[CNB1, CMD1, MKT1, PFK2, FAA4, RCN1]
YML016C	PPZ1	Phosphatase Catalytic	93	9	[VHS3, SDS22, CAB3, SIS2, HAL1, JIP4, IMP2, PPZ2, YPI1]
YML057W	CMP2	Phosphatase Catalytic	281	3	[YPR115W, CNB1, RVB2]
YMR036C	MIH1	Phosphatase Catalytic	92	9	[MAM33, SLH1, TOR2, RPM2, CLB3, KEL1, HRR25, CKA2, KIN2]
YNL053W	MSG5	Phosphatase Catalytic	140	7	[KDX1, PBS2, CMD1, SPC110, IVY1, CDC31, SPC42]
YNL099C	OCA1	Phosphatase Catalytic	384	2	[SIW14, OCA2]
YNL222W	SSU72	Phosphatase Catalytic	615	1	[CDC55]
YNR032W	PPG1	Phosphatase Catalytic	276	3	[CDC55, TPD3, CCT2]
YOR090C	PTC5	Phosphatase Catalytic	325	3	[ADE5,7, MAM33, NAP1]
YOR208W	PTP2	Phosphatase Catalytic	474	2	[ADR1, NOP12]
YPL179W	PPQ1	Phosphatase Catalytic	457	2	[SDS22, YPI1]
YBR093C	PHO5	Phosphatase Metabolic/Lipid	195	5	[PDI1, SWI3, ATP3, MPM1, BGL2]
YHR215W	PHO12	Phosphatase Metabolic/Lipid	-	-	[]
YIL002C	INP51	Phosphatase Metabolic/Lipid	385	2	[FPR3, PRP43]
YJR110W	YMR1	Phosphatase Metabolic/Lipid	73	10	[NOC3, PSH1, RPB2, RPO21, ERB1, GCN2, VPS35, NOC2, NUG1, VPS5]
YOR109W	INP53	Phosphatase Metabolic/Lipid	284	3	[CHC1, RGD1, CLU1]

Statistics	
Kinase Catalytic	129
Kinase Associated	29
Kinase Metabolic/Lipid	24
Phosphatase Catalytic	30
Phosphatase Associated	7
Phosphatase Metabolic/Lipid	5
Other	36
TOTAL	260

Orf Name	Gene Name	Category	Hub Rank	Interactions	Interactors
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