

Table S1. Module ID list of genes grouped by WGCNA

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
SMP1	1	YIG1	1	NPA3	3	DSE4	4
KAR4	1	YPL225W	1	HOC1	3	TAT2	4
SRD1	1	YPL245W	1	BNA2	3	LAG2	4
RPN4	1	BBP1	1	EAF6	3	DDR2	4
TOS8	1	CUB1	1	MET14	3	ARG1	4
GAT4	1	FUM1	1	AUR1	3	YOL107W	4
YAP7	1	PBI1	1	SFT1	3	RRI2	4
CYS3	1	FEX2	1	MRT4	3	MCH4	4
NTG1	1	CIT3	1	URB1	3	PEX11	4
POP5	1	PDH1	1	MAK11	3	ALG6	4
ERV46	1	HAL1	1	PSG1	3	DDL1	4
GDH3	1	ICL2	1	DHR2	3	HST3	4
FLO9	1	APL4	1	TEF4	3	YOR034C-A	4
YAL064W	1	TIP41	1	UTP11	3	SHE4	4
PAU8	1	THP3	1	LTV1	3	HIR2	4
UIP3	1	ARO7	1	RPC25	3	GYP1	4
PRM9	1	YPR063C	1	SRP102	3	DIA2	4
FLO1	1	SPE3	1	TPK3	3	TGL5	4
FUS3	1	NOT5	1	EBP2	3	KTR1	4
MRPL16	1	OPY2	1	PRS1	3	AZF1	4
PRE7	1	YPR078C	1	SPE1	3	ADE2	4
COR1	1	SRP54	1	LOS1	3	SMP3	4
PSY4	1	RDS3	1	URA1	3	NFI1	4
PIN4	1	MRI1	1	RPC37	3	PNS1	4
PTC3	1	CUR1	1	GCN3	3	ULS1	4
PTH2	1	YPR159C-A	1	TRM2	3	DFR1	4
SHP1	1	MET16	1	RPS21A	3	ENV9	4
SSA3	1	VPS4	1	UTP30	3	DSE3	4
ALG3	1	CCR4	2	DRE2	3	RFM1	4
BNA4	1	LTE1	2	TRZ1	3	YOR289W	4
SRO77	1	CDC24	2	RPF2	3	BUD7	4
YBL109W	1	OAF1	2	NUP133	3	RAX1	4
KAP104	1	CDC15	2	SRP40	3	YOR302W	4
GAL7	1	SWH1	2	DRS1	3	CPA1	4
GIP1	1	IMD1	2	SOF1	3	SFG1	4
REG2	1	YAR075W	2	RIX7	3	TEA1	4
MNC1	1	HTB2	2	NOC3	3	PYK2	4
UBP14	1	HTA2	2	CMS1	3	MNE1	4
TIP1	1	PIM1	2	PAM18	3	GDS1	4
RFC5	1	POL12	2	RLP24	3	HAP5	4
TIM12	1	SAS3	2	MEU1	3	ATF1	4
PBY1	1	KIP1	2	FCF2	3	PHR1	4
CMD1	1	SEF1	2	MNL2	3	NCR1	4
VMA2	1	SEA4	2	FRS1	3	HST2	4
CCZ1	1	YBL111C	2	FYV7	3	RAD1	4
CDC28	1	DSF2	2	RFU1	3	ISM1	4
AIM4	1	HHT1	2	RPL10	3	PDR12	4
MSI1	1	GAL1	2	REA1	3	RGL1	4

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
BEM1	1	AKL1	2	RPS31	3	HTC1	4
PDB1	1	BAP2	2	DPH5	3	MUK1	4
PCS60	1	TAT1	2	CBF5	3	YTA6	4
ARC40	1	ECM33	2	EMG1	3	RPS9A	4
RRT2	1	IST2	2	PWP1	3	MOT1	4
SPO23	1	NHP6B	2	NOP56	3	SEN54	4
SHM1	1	CYC8	2	RSA3	3	SSU1	4
CHK1	1	RAD16	2	UTP13	3	SEC62	4
DUG2	1	TFC1	2	THI7	3	EEB1	4
SSH1	1	NPL4	2	GPN3	3	PNG1	4
YBR284W	1	DUR1,2	2	DBP9	3	INA17	4
APM3	1	YBR225W	2	GCD7	3	MCO76	4
VBA2	1	VHC1	2	GSP1	3	CAR1	4
MAL33	1	YBR241C	2	EST2	3	RDS2	4
PAU24	1	ALG7	2	SGD1	3	ISU1	4
LDB16	1	PGS1	2	RPP0	3	FRK1	4
GBP2	1	BUD3	2	IKI3	3	YPL162C	4
FRM2	1	AGP1	2	UTP21	3	REV3	4
HBN1	1	PDI1	2	TSR2	3	COA2	4
FUS1	1	ADP1	2	RPS1A	3	THI6	4
ATG22	1	PGK1	2	FPR4	3	PCL8	4
EMC1	1	SNT1	2	TRM9	3	FLC1	4
YCL049C	1	PHO87	2	PSP2	3	ENV7	4
APA1	1	YCR061W	2	YML018C	3	ATG41	4
CHA1	1	HCM1	2	RRN11	3	HFI1	4
CWH43	1	PAT1	2	DUS1	3	SAM3	4
PET18	1	CDC39	2	UTP14	3	SPO24	4
HSP30	1	OSH2	2	GIM5	3	NHP6A	4
AHC2	1	GPR1	2	URA5	3	TFB4	4
YCR090C	1	STP4	2	HXT2	3	UBA3	4
GIT1	1	PSA1	2	BUD22	3	LTP1	4
PAU3	1	USO1	2	ERB1	3	MDM36	4
YDL012C	1	PMT1	2	NAM7	3	TMH18	4
CDC7	1	NSE4	2	UTP15	3	ISR1	4
SLM3	1	CLB3	2	PKR1	3	DBF20	4
PRM7	1	SNF3	2	ECM16	3	PIS1	4
NAT1	1	GLE1	2	RRB1	3	YPR114W	4
MRP10	1	YDL211C	2	RPL13B	3	CLB2	4
UBC9	1	WHI4	2	TIF34	3	AXL1	4
PEX19	1	GYP7	2	GUA1	3	BSP1	4
IDP1	1	LRG1	2	RRP5	3	YPR172W	4
CBS1	1	YDR003W-A	2	RPS10B	3	DPM1	4
QRI1	1	SNQ2	2	RNA1	3	OPT2	4
KIN28	1	RAD61	2	RNT1	3	ARR1	4
YFH1	1	KCS1	2	YHM2	3	RFA1	5
CDC53	1	DOA4	2	TIF11	3	SEN34	5
PPH21	1	GIS1	2	HAS1	3	PAU7	5
MSH5	1	TMA64	2	ELP6	3	YAT1	5

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
YDL157C	1	ARO1	2	DOM34	3	SHE1	5
SFA1	1	DOP1	2	RLP7	3	YBR071W	5
PAR32	1	SAC3	2	RCM1	3	RDH54	5
AIR2	1	STB3	2	YNL050C	3	UBC4	5
YDL177C	1	SND1	2	OCA2	3	FES1	5
YDL180W	1	CCT6	2	NOP2	3	PRD1	5
MRPL11	1	VPS64	2	GCD10	3	FIG2	5
PRR2	1	MSS4	2	IMP4	3	RPT2	5
GDH2	1	RAD9	2	YNL095C	3	GRX6	5
GCS1	1	MFB1	2	RPC19	3	PMT5	5
AAD4	1	HTB1	2	NCS2	3	RPN6	5
MPH2	1	HTA1	2	KRE33	3	DUN1	5
PSF1	1	VHS1	2	RPC31	3	POL3	5
EHD3	1	RMD5	2	YNL162W-A	3	RPN5	5
ENA5	1	HRQ1	2	NOP13	3	CDC9	5
YDR042C	1	SSD1	2	IPI3	3	VMA1	5
HEM13	1	RSC3	2	RIO2	3	MSH6	5
DET1	1	SWR1	2	SSB2	3	PLP1	5
YDR061W	1	EAF1	2	RPA49	3	ADR1	5
SHU2	1	TFC6	2	PUS4	3	FMN1	5
TFB5	1	ESC2	2	TRF5	3	RPT3	5
GRX3	1	SAC7	2	KRI1	3	PAC11	5
YDR109C	1	HPT1	2	EMW1	3	TIR1	5
ALT2	1	SIZ1	2	RPC34	3	SSA4	5
MRX14	1	HKR1	2	SWM2	3	DDI1	5
DPB4	1	ARO80	2	URK1	3	MDJ1	5
RUB1	1	PPZ2	2	SMM1	3	DAK2	5
SAN1	1	SSN2	2	MPP6	3	RPN11	5
MKC7	1	YHP1	2	DBP6	3	ECO1	5
TAF12	1	LCD1	2	TRM112	3	RPT6	5
CDC37	1	PSP1	2	ESF2	3	SPG1	5
ARG82	1	URC2	2	RCL1	3	RIM4	5
YDR182W-A	1	MIT1	2	YOL014W	3	RPN1	5
UPS3	1	SPF1	2	TSR4	3	RPN10	5
NUP42	1	MCM3	2	NOP12	3	RPN2	5
REF2	1	UTR2	2	YOL075C	3	AXL2	5
AHA1	1	MNN1	2	BRX1	3	CCT2	5
YDR222W	1	PMI40	2	REX4	3	GSM1	5
CRF1	1	FIR1	2	WRS1	3	ASF1	5
MRPL7	1	GPP2	2	PAP2	3	RFA3	5
CHL4	1	VHR2	2	TRM11	3	RBH2	5
CTA1	1	MOT2	2	TRM13	3	SPC42	5
DIN7	1	RNR1	2	NOP8	3	PRI2	5
CIA1	1	DOT6	2	RRP6	3	UBA1	5
DON1	1	UBP9	2	UTP23	3	HSP104	5
DPL1	1	FLO8	2	DBP5	3	UBI4	5
HDA2	1	SLX8	2	ALG8	3	YLL056C	5
SUR2	1	PMD1	2	TMA46	3	THI73	5

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
HNT2	1	YER158C	2	RPS28A	3	OSW2	5
RQC1	1	DNF1	2	GLN4	3	CDC45	5
MRX8	1	RPH1	2	NOC2	3	YPS3	5
YPS7	1	GAT1	2	RET1	3	TOS4	5
YDR366C	1	EPL1	2	NPT1	3	HSP60	5
CTS2	1	STE2	2	RPB10	3	LCB5	5
VPS74	1	RIM15	2	TMA16	3	CIS1	5
LSM6	1	MIL1	2	NAT5	3	SPP382	5
DIT1	1	OTU1	2	GCD1	3	OGG1	5
RPN9	1	YFR012W-A	2	YTM1	3	TUB1	5
APT2	1	FAB1	2	PLP2	3	PLB2	5
GUK1	1	ULI1	2	RRP36	3	UBX4	5
NHX1	1	QCR6	2	RPS10A	3	PDS5	5
MZM1	1	PHO4	2	RRS1	3	FDO1	5
SPS1	1	CDH1	2	YOR338W	3	FAA4	5
FIT1	1	TIF4632	2	RPA190	3	DSK2	5
IRC22	1	OLE1	2	YOR342C	3	YDJ1	5
WBP1	1	SGF73	2	PRT1	3	APJ1	5
TIM9	1	AFT1	2	NOP4	3	TOP2	5
GEA2	1	MF(ALPHA)2	2	ELP3	3	POL1	5
FRD1	1	YGL108C	2	NAN1	3	BNI5	5
SIT1	1	SNT2	2	POC4	3	KEX2	5
DSF1	1	MRM2	2	NOP53	3	POL2	5
FMP52	1	SEC27	2	NIP7	3	SEC21	5
NTF2	1	AMS1	2	PUS1	3	CSI2	5
BIM1	1	MDS3	2	RVB2	3	ESC8	5
RPN3	1	CHC1	2	YAH1	3	LDS2	5
SMB1	1	MIG2	2	KEL3	3	MSH2	5
YPT31	1	VID30	2	DIM1	3	STI1	5
MXR1	1	FZF1	2	TIF6	3	STD1	5
SPO73	1	ADH4	2	TIF5	3	CDC21	5
RSM18	1	SEC9	2	RPL43A	3	PUP1	5
GIP2	1	MSB2	2	TAH18	3	RPT4	5
ICP55	1	GSC2	2	MED1	3	RPN8	5
YER078W-A	1	ACB1	2	DIB1	3	MYO2	5
SER3	1	TFC4	2	RPC40	3	PRE10	5
AIM11	1	RSC1	2	MRD1	3	SSE1	5
SHC1	1	ART5	2	RRP9	3	SPC29	5
UBC6	1	ESP1	2	NOC4	3	NAB3	5
GLE2	1	YGR125W	2	TIF3	3	HSP82	5
TMN3	1	TPO2	2	JIP5	3	ARP7	5
PEA2	1	BUB1	2	TFC3	4	PRE2	5
GCG1	1	YAP1802	2	MDM10	4	YPR174C	5
CCA1	1	RIE1	2	SWC3	4	AQY1	5
DMC1	1	TAF1	2	GIP4	4	SIP4	6
PUG1	1	GIC1	2	CDC19	4	RDR1	6
PAU5	1	IRE1	2	YAR023C	4	USV1	6
MOB2	1	NAM8	2	YAR028W	4	FRT2	6

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
YPT1	1	HXT4	2	PDR3	4	CLN3	6
EMP47	1	HXT1	2	POP8	4	PEX22	6
AAD6	1	KIC1	2	HEK2	4	BDH2	6
YFH7	1	SBE22	2	RIB1	4	NTH2	6
UBP6	1	KEL1	2	ECM13	4	YBR053C	6
RRT5	1	SPC97	2	YBL055C	4	YBR056W	6
RSC8	1	YHR175W-A	2	AVT5	4	TPS1	6
KEG1	1	SKN7	2	ROX3	4	ATG14	6
IRC6	1	IMD2	2	MRX3	4	ATG42	6
RPN12	1	INP51	2	ECM21	4	MCM7	6
MPO1	1	EPS1	2	RTG3	4	SDS24	6
YGL015C	1	NEO1	2	PKC1	4	OM14	6
KAP122	1	GPP1	2	RER2	4	GLK1	6
GET1	1	PRK1	2	EDS1	4	GEX1	6
ALK1	1	FYV10	2	QDR3	4	GPD1	6
STT3	1	XBP1	2	ZTA1	4	DIA3	6
YGL039W	1	SEC24	2	YRO2	4	NDE2	6
DST1	1	HOS4	2	PHO5	4	TMA17	6
RNA15	1	SIM1	2	VPS15	4	STF1	6
NPY1	1	STH1	2	VID24	4	ARF2	6
MNP1	1	ASG1	2	YSA1	4	UGX2	6
SEH1	1	PAN1	2	LYS2	4	LYS20	6
VPS73	1	MND2	2	AGP2	4	FMP45	6
ARC1	1	MPS3	2	HSL7	4	ADY3	6
MLC1	1	BBC1	2	RTC2	4	YDR018C	6
COQ8	1	KAR2	2	TBS1	4	FMP16	6
SOH1	1	MHP1	2	AMN1	4	TPS2	6
CEG1	1	RTT101	2	SWD3	4	AFR1	6
HOS2	1	JEM1	2	EHT1	4	PAM1	6
DSD1	1	ICS3	2	DER1	4	GGA1	6
SPT16	1	ALY2	2	COS111	4	PDR15	6
YPT32	1	DPB11	2	PYC2	4	GRH1	6
CLG1	1	SRS2	2	TDP1	4	YEF1	6
BOL2	1	IME2	2	ROT2	4	AVT2	6
NIF3	1	YJL118W	2	ERT1	4	SPC25	6
RTF1	1	PBS2	2	YBR259W	4	CHO1	6
GUS1	1	VPS35	2	SAF1	4	EDC2	6
BRR6	1	CIS3	2	CTP1	4	PHM8	6
YGR026W	1	RBH1	2	YCL002C	4	SPI1	6
RPS25A	1	PRP21	2	HIS4	4	ADK2	6
YGR035C	1	RAV1	2	POF1	4	HSP12	6
MTE1	1	GEF1	2	PEX34	4	AGX1	6
SPR3	1	KCH1	2	VAC17	4	YFL041W-A	6
COX18	1	TOR1	2	YCR007C	4	AQY3	6
UPF3	1	BIR1	2	SLM5	4	IGD1	6
MRPL25	1	JSN1	2	PMP1	4	HXK1	6
PEX8	1	ECM27	2	YCR024C-B	4	SCY1	6
TOM20	1	YJR115W	2	RHB1	4	STF2	6

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
MRP13	1	RSF2	2	BPH1	4	MSP1	6
PDC6	1	DAN4	2	BUD5	4	CTT1	6
NNF2	1	PUT3	2	KIN82	4	GPC1	6
VOA1	1	MAE1	2	EMA35	4	XKS1	6
YGR111W	1	IXR1	2	AAD3	4	YGR237C	6
YGR121W-A	1	MSN4	2	RTK1	4	SOL4	6
FHN1	1	MNR2	2	KNH1	4	GND2	6
PRE9	1	LHS1	2	MCH1	4	SHU1	6
BTN2	1	SEG2	2	YDL057W	4	APM2	6
THI4	1	ABF1	2	RXT3	4	AIM17	6
ECL1	1	OAC1	2	RAM1	4	WSC4	6
YGR151C	1	MYO3	2	SRF1	4	LEU5	6
YGR153W	1	YKL162C	2	RGT2	4	LAM4	6
PTI1	1	MCD4	2	UGA3	4	RTC3	6
MRPS35	1	NNK1	2	DLD1	4	HXT5	6
PEX35	1	FAS1	2	ARF1	4	TDA11	6
YIP1	1	TOF2	2	MGT1	4	ATG7	6
ATF2	1	SPO14	2	TIM22	4	VID28	6
PBP1	1	GAP1	2	BRE4	4	PKP1	6
TIM13	1	TRK2	2	GUD1	4	RCI37	6
TYS1	1	DYN1	2	COS7	4	SGA1	6
TFG1	1	PXL1	2	MAF1	4	OM45	6
PDX1	1	PCC1	2	GCV1	4	EGH1	6
SNG1	1	ESL2	2	ATG31	4	RPR2	6
YGR201C	1	DNM1	2	RAD28	4	YIR016W	6
TDA10	1	YEH1	2	MRH1	4	GTT1	6
MVB12	1	YLR001C	2	LYS14	4	IML2	6
YGR210C	1	PSR2	2	ARO3	4	FMP33	6
CRM1	1	IZH3	2	BAP3	4	YJL163C	6
MRPL9	1	UBR2	2	PST1	4	TPK1	6
PHB2	1	RIC1	2	UBC5	4	MHO1	6
MPC3	1	STU2	2	RRG1	4	HUL4	6
BRF1	1	SPT8	2	SNF11	4	YUH1	6
APL6	1	ERG3	2	SLU7	4	UGP1	6
BUD32	1	SMC4	2	VTC5	4	YKL107W	6
ZUO1	1	CSF1	2	TMN2	4	RAD27	6
BIO2	1	GIS3	2	FIN1	4	DGR2	6
MAL11	1	AVL9	2	SDH4	4	GPT2	6
SNF6	1	MSL5	2	SPC19	4	ECM4	6
GOS1	1	NHA1	2	GTB1	4	SRL3	6
VMR1	1	PUT1	2	ADK1	4	SSK1	6
CBP2	1	ACS2	2	HEM1	4	EMP46	6
ARN1	1	APS1	2	RTN1	4	YLR149C	6
YHLO44W	1	HRD3	2	LYS4	4	SHH4	6
ARN2	1	RED1	2	AMD2	4	YLR177W	6
YHR007C-A	1	YLR285C-A	2	PRP28	4	MMR1	6
ARD1	1	CTS1	2	YDR248C	4	FRE1	6
YHR022C	1	MID2	2	SWM1	4	COA4	6

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
VMA16	1	VRP1	2	PEX10	4	MSC3	6
YHR033W	1	KAP95	2	HEL2	4	CDD1	6
AAP1	1	RSC2	2	GLO2	4	GSY2	6
FYV4	1	YLR361C-A	2	BSC2	4	TSL1	6
QNS1	1	VID22	2	MTH1	4	CUE4	6
PPE1	1	PSY3	2	MRX10	4	MSC1	6
GRE3	1	SEC61	2	YDR306C	4	EIS1	6
GGA2	1	CSR1	2	MCM21	4	YET2	6
UBA4	1	NAM2	2	YFT2	4	STB2	6
YHR112C	1	SKI2	2	PAL1	4	YMR090W	6
BZZ1	1	SFP1	2	SBE2	4	PGM2	6
COX23	1	INA1	2	YRA1	4	YMR155W	6
CRP1	1	DCK1	2	NCB2	4	PAI3	6
MRPL6	1	MAG2	2	ADE8	4	YMR181C	6
REC104	1	IMD3	2	NPL3	4	ADD37	6
OYE2	1	ECM30	2	TLG1	4	YMR226C	6
SVP26	1	CAR2	2	SNM1	4	DFG5	6
IKI1	1	RIF2	2	CWC21	4	GAD1	6
LNP1	1	ERG6	2	IZH1	4	EOS1	6
AIM46	1	ERV25	2	ITR1	4	YNL194C	6
CRG1	1	UBX2	2	GMC1	4	NNR1	6
CMI7	1	UNG1	2	GNP1	4	YTP1	6
CFD1	1	YOX1	2	FPR2	4	ATG2	6
YIL024C	1	ORC1	2	YDR524C-B	4	MDJ2	6
EMC5	1	TCB3	2	SNA2	4	YNR014W	6
CKA1	1	RPM2	2	PAD1	4	RRT8	6
CBR1	1	VPS9	2	IRC4	4	ATG34	6
PIG2	1	NDI1	2	GCN4	4	MDH2	6
DFG10	1	PHO84	2	GTT3	4	DNL4	6
RNR3	1	ERG5	2	YEL025C	4	PEP12	6
MAM33	1	SOK2	2	ECM10	4	RSB1	6
CAB2	1	MSN2	2	GLY1	4	YOR062C	6
YIL089W	1	STV1	2	HAT2	4	DCS2	6
RSM25	1	FET3	2	CAN1	4	MCP1	6
PFK26	1	MOT3	2	YEL073C	4	TPO4	6
PRM5	1	MYO5	2	PAC2	4	PUT4	6
QDR1	1	ADE17	2	MIG3	4	ALD4	6
TMA108	1	NCW1	2	ZRG8	4	LSP1	6
SSL2	1	EPO1	2	YER034W	4	YPL113C	6
SOA1	1	DLT1	2	HVG1	4	RNY1	6
IMA3	1	GAT2	2	GLN3	4	AIM44	6
PRI1	1	INP2	2	YEN1	4	DAP1	6
MSL1	1	MSS11	2	SAP1	4	UIP4	6
STS1	1	SGS1	2	YER053C-A	4	JID1	6
FLO11	1	CLN1	2	FCY2	4	CTR1	6
MRS1	1	PFK2	2	PCL6	4	NCE102	6
SEC11	1	SCJ1	2	CEM1	4	GPH1	6
DCG1	1	SKY1	2	ARG5,6	4	ATG13	6

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
OST1	1	PEP5	2	ALD5	4	GCV3	7
CCT8	1	COA6	2	PTC2	4	BOL3	7
PET130	1	TPS3	2	BOI2	4	BDH1	7
MAD2	1	ZDS1	2	DSE1	4	LDB7	7
TAD2	1	CAT8	2	COM2	4	CHS2	7
IRC18	1	GOT1	2	YER134C	4	FMP23	7
YJL047C-A	1	UBP15	2	EMP65	4	YBR137W	7
CHM7	1	GAS1	2	UBP5	4	ADH5	7
BNA3	1	PBI2	2	OXA1	4	HIS7	7
MPM1	1	ARK1	2	BUR6	4	ARO4	7
PHS1	1	HDA1	2	RAD4	4	RIB5	7
PAM16	1	HHT2	2	PAB1	4	YCR099C	7
PHO86	1	NCE103	2	TMT1	4	MDH3	7
RPE1	1	VAC7	2	ECM32	4	QRI7	7
LSM1	1	AQR1	2	YER186C	4	PCL9	7
NIT2	1	FKH2	2	HAC1	4	GGC1	7
DPI8	1	NST1	2	RPL22B	4	RRI1	7
SFH5	1	APP1	2	SNO3	4	AIM6	7
CPS1	1	THO2	2	MIC19	4	SWI5	7
SOP4	1	MFA2	2	YFR018C	4	SNU56	7
ECM25	1	RHO5	2	PTR3	4	TRP4	7
IMA5	1	YNL190W	2	PMC1	4	ARH1	7
REE1	1	WHI3	2	YGL007C-A	4	HSP31	7
YJL218W	1	RAP1	2	PMA1	4	IES6	7
POL31	1	CNM67	2	ERG4	4	HIS1	7
YJR015W	1	CWC25	2	SCW11	4	VFA1	7
ESS1	1	RAD50	2	PUS2	4	HIS2	7
TAH11	1	BNI1	2	HNM1	4	PKP2	7
ANB1	1	SEC2	2	KXD1	4	CDC43	7
MNN14	1	WSC2	2	GUP1	4	TPN1	7
CCT5	1	CAF40	2	YGL117W	4	SDT1	7
EMC2	1	VNX1	2	GPG1	4	IMO32	7
YJR112W-A	1	FIG4	2	MET13	4	TIM21	7
TDA4	1	NRM1	2	SCS3	4	CLD1	7
IBA57	1	ACC1	2	MRF1	4	PCT1	7
EFM3	1	SSK2	2	ROG1	4	MAL13	7
XPT1	1	SIN3	2	RRT6	4	YHI9	7
TIM8	1	TOP1	2	ATG1	4	PIH1	7
HOM6	1	YOL019W	2	SIP2	4	PCL5	7
YJR149W	1	SIL1	2	SAP4	4	YHR202W	7
MRP17	1	SMC5	2	PDE1	4	EST3	7
CCE1	1	NGL1	2	ZIP2	4	YIL014C-A	7
SWD2	1	AVO1	2	RMR1	4	YKE4	7
PTM1	1	DUF1	2	HFM1	4	MMF1	7
NFU1	1	HAL9	2	MNT2	4	HIS5	7
ANR2	1	WSC3	2	NMA2	4	QDR2	7
YNK1	1	ZEO1	2	YGR016W	4	IRC24	7
MUD2	1	AUS1	2	YGR017W	4	ARG3	7

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
VMA5	1	MSA1	2	BUD9	4	PIR5	7
HOT13	1	RGA1	2	RME1	4	OPI3	7
MBR1	1	SIA1	2	MUP1	4	STR2	7
KTI12	1	SFL1	2	TPC1	4	YKL069W	7
PRR1	1	PDR5	2	CLB1	4	CBT1	7
SBA1	1	YRM1	2	MEP1	4	PML1	7
SRP21	1	DED1	2	CAF130	4	GEP5	7
RRN3	1	ABP140	2	SKN1	4	MIM2	7
SHE2	1	SRL1	2	CHO2	4	YLR152C	7
APL2	1	ISW2	2	ERG1	4	NCW2	7
CTK1	1	GNT1	2	YCH1	4	COQ11	7
TPO5	1	PMT3	2	SLI1	4	NMA1	7
FAT3	1	LDB19	2	PEX21	4	PUN1	7
SAC1	1	FRT1	2	HUA1	4	ERV41	7
PAP1	1	SCD5	2	YOR1	4	TAF13	7
YKR005C	1	MIP1	2	YAP3	4	PEX12	7
MEH1	1	KRE5	2	OPI1	4	HOF1	7
NTR2	1	NDD1	2	YHL026C	4	ARG7	7
NAP1	1	VTC3	2	38353	4	RPL15B	7
FMP46	1	SKS1	2	RPL8A	4	CMC4	7
MRS4	1	SVL3	2	TDA3	4	YNL046W	7
YSR3	1	YPL039W	2	ARG4	4	NRK1	7
HBS1	1	LGE1	2	PUT2	4	ADE12	7
MRPL20	1	SUR1	2	MED6	4	DAL82	7
TVP38	1	ALD6	2	PTC7	4	SHR5	7
SKG1	1	GPI2	2	CTM1	4	ARG8	7
RTT109	1	RLM1	2	EPT1	4	RIB4	7
LMO1	1	BEM3	2	YHR131C	4	ORT1	7
COX17	1	HOS3	2	WSS1	4	MRM1	7
PAU17	1	DBP1	2	SPL2	4	ODC2	7
ATG10	1	YPL119C-A	2	CHS7	4	SRL4	7
LDB18	1	HHO1	2	DSE2	4	ERV2	7
AQY2	1	GIP3	2	PEX28	4	YMC1	7
YLL053C	1	TCO89	2	CTR2	4	RDS1	8
YCT1	1	MF(ALPHA)1	2	YHR182W	4	UME6	8
JLP1	1	FAS2	2	GND1	4	RGM1	8
YLL058W	1	PLC1	2	MDM31	4	RTG1	8
GTT2	1	HAA1	2	BAT1	4	YAR010C	8
MHT1	1	SDD4	2	YIL001W	4	ATG8	8
AYT1	1	SRO7	2	BET1	4	YBL100W-A	8
YLL066W-B	1	GLN1	2	MNT3	4	ECM2	8
SSL1	1	PUF2	2	VHR1	4	PBP2	8
EMA19	1	TKL1	2	SNP1	4	SGF29	8
YLR053C	1	FHL1	2	YIL067C	4	MRC1	8
REX2	1	YPR117W	2	YIL092W	4	SIT4	8
SPC3	1	MEP3	2	LYS12	4	CMR1	8
XYL2	1	ASN1	2	MOB1	4	CDC34	8
PDC5	1	MMS1	2	RPI1	4	RAD55	8

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
SMD3	1	TOD6	3	CSS1	4	DOT1	8
PCD1	1	REI1	3	VTH1	4	ADA2	8
RNH203	1	MET32	3	DAL2	4	YRF1-1	8
YLR154C-H	1	STE12	3	LYS1	4	MAG1	8
YLR154W-E	1	PPR1	3	NRE1	4	PAN2	8
UPS2	1	MET31	3	CYR1	4	VAM7	8
CDC123	1	SUT2	3	RNR2	4	SPS100	8
CPR6	1	MAK16	3	AIM22	4	MCM10	8
CDC42	1	RBG1	3	TDH1	4	DSN1	8
NEJ1	1	ECM1	3	LOG1	4	VLD1	8
BOP2	1	YAR068W	3	ZAP1	4	MEF2	8
MCM5	1	NCL1	3	BIT61	4	ENT4	8
SMD2	1	YBL036C	3	YJL070C	4	RNP1	8
UBC12	1	URA7	3	YJL077W-B	4	IOC2	8
DPA10	1	UBP13	3	PRY3	4	YLR125W	8
TAD3	1	PRS4	3	PRY1	4	SLX4	8
REC102	1	KTI11	3	ARP4	4	BDF1	8
GAS2	1	RPS8A	3	TAX4	4	NAT4	8
NMD4	1	RPL23A	3	GWT1	4	BSC5	8
GRX8	1	OLA1	3	LSB6	4	PLB3	8
RPS29A	1	RKM3	3	NCA3	4	SPT20	8
AFG2	1	PFF1	3	URA2	4	GLO4	8
YLR406C-A	1	RPG1	3	AIM23	4	SGO1	8
YLR412C-A	1	MIS1	3	GLG2	4	PTP2	8
CNA1	1	MAK5	3	YUR1	4	YOR385W	8
VMA6	1	RPB5	3	YAK1	4	NSL1	8
YLR460C	1	RPS9B	3	IDS2	4	ACH1	9
YLR466C-B	1	MET8	3	SMT1	4	HSP26	9
TAF11	1	YBR238C	3	HSP150	4	YBR285W	9
YML6	1	GPX2	3	ATG36	4	ADY2	9
CAT2	1	ENP1	3	ACO2	4	GPM2	9
POB3	1	TRS20	3	PEX2	4	HSP42	9
BET5	1	EFM2	3	ILV3	4	GLC3	9
ALO1	1	RRP7	3	CYC1	4	GSY1	9
PRE8	1	GFD2	3	RAD7	4	PNC1	9
SEC65	1	SRO9	3	CBF1	4	YGR066C	9
CTK3	1	SPB1	3	NTA1	4	RTS3	9
PGA3	1	KRR1	3	MOG1	4	ROQ1	9
MVP1	1	HTL1	3	BUD4	4	SFC1	9
SPO20	1	RPS14A	3	CPA2	4	JEN1	9
MRPL3	1	BUD23	3	YMR1	4	TFS1	9
ARP9	1	YCR051W	3	JHD2	4	TMA10	9
SUB1	1	THR4	3	MNS1	4	SHH3	9
SAM37	1	CTR86	3	MCM22	4	SIP18	9
RNA14	1	PWP2	3	HIR3	4	YMR196W	9
KAR5	1	RSA4	3	HMS2	4	HEF3	9
SDD2	1	YCR087C-A	3	BAT2	4	MLS1	9
YMR085W	1	NOP1	3	CDC16	4	YNL195C	9

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
PDL32	1	DBP10	3	YKL023W	4	GOR1	9
SRT1	1	SYO1	3	TUL1	4	YOL131W	9
SPG4	1	RPL13A	3	YKL071W	4	GRE1	9
JLP2	1	EXP1	3	STB6	4	SUE1	9
ERG29	1	RPP1B	3	SMY1	4	GDB1	9
YIM1	1	RPL41B	3	CWP2	4	POL30	10
MRPS8	1	NOP14	3	RMA1	4	MCD1	10
ALD3	1	RPC53	3	OCT1	4	PLM2	10
ALD2	1	SAS10	3	KDX1	4	GIN4	10
CTL1	1	FAP7	3	PIR3	4	CIN8	10
SSO2	1	NRP1	3	PIR1	4	SMC1	10
HSC82	1	TRM8	3	KKQ8	4	TUB2	10
YMR209C	1	NHP2	3	ASH1	4	CLB6	10
FSH2	1	SHR3	3	OSH6	4	ECM29	10
YMR230W-A	1	YRB1	3	ECM9	4	SPO16	10
FUS2	1	FAL1	3	HEL1	4	RTT107	10
YMR272W-B	1	SES1	3	ALY1	4	IRR1	10
RCE1	1	RPC11	3	YKR045C	4	SMC3	10
ATM1	1	MAK21	3	GLG1	4	INO1	10
ADH2	1	RRP8	3	TFA2	4	SWE1	10
ADH6	1	RRP1	3	SIS2	4	HSL1	10
ERR3	1	RLI1	3	TGL4	4	MSA2	10
ASI3	1	ARX1	3	BAS1	4	YLR342W-A	10
EFM6	1	TRM1	3	SIR1	4	ERO1	10
KTR5	1	GIR2	3	MMM1	4	CTF18	10
YNL035C	1	ACL4	3	FRA1	4	SPT21	10
IDH1	1	TRM82	3	SDH2	4	INP1	10
GPI15	1	CSN9	3	FRE6	4	SCW10	10
YNL042W-B	1	ATC1	3	MLH2	4	CUZ1	10
TOM7	1	EBS1	3	PDC1	4	PCL1	10
LAT1	1	GCD6	3	SHM2	4	TOS6	10
SWS2	1	BFR2	3	ARP6	4	SLK19	10
END3	1	ASP1	3	CHA4	4	CIP1	10
RHO2	1	FCF1	3	CFT2	4	RAD53	10
YNL108C	1	ESF1	3	ZRT2	4	SVS1	10
YNL122C	1	SXM1	3	ACE2	4	ACM1	10
SRP1	1	UTP5	3	USB1	4	INO2	11
DUG3	1	RRP17	3	CKI1	4	YAP5	11
MRX7	1	TIF35	3	DPH6	4	ARG80	11
PEX17	1	UTP6	3	ACF2	4	GEM1	11
SSU72	1	RMT2	3	YLR173W	4	ADE1	11
ELA1	1	RPL37B	3	NMT1	4	FUI1	11
CSL4	1	YDR514C	3	BNA5	4	YPK3	11
NRD1	1	SNU13	3	HAP1	4	HMT1	11
MRPL17	1	TCA17	3	YLR257W	4	YMC2	11
TEX1	1	RPL12A	3	YPT6	4	BMT2	11
FOL1	1	DLD3	3	PDR8	4	YBR219C	11
ORC5	1	RMD6	3	CMG1	4	YBR220C	11

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
YIF1	1	NOP16	3	YLR278C	4	DAS2	11
PDR17	1	NUG1	3	MEC3	4	PHM6	11
YNL277W-A	1	UTP7	3	EXG1	4	ATO3	11
HCH1	1	KAP123	3	NKP2	4	RBA50	11
CUS2	1	NSA2	3	ILV5	4	BUD16	11
BXI1	1	LCP5	3	VPS38	4	IRC7	11
MCK1	1	RAD3	3	MDM30	4	STR3	11
AAD14	1	SPB4	3	ROM2	4	NCS6	11
YNR021W	1	BUD27	3	STP3	4	YHB1	11
MRPL50	1	SNZ3	3	VPS33	4	TNA1	11
SNF12	1	LOC1	3	SEI1	4	ERC1	11
CPR8	1	NIC96	3	ATG17	4	RPL16A	11
EGO4	1	RPL2A	3	TUS1	4	NMD5	11
AGA1	1	CGR1	3	USA1	4	SRY1	11
MSO1	1	RPL30	3	SUR7	4	MTD1	11
FRE4	1	DBP3	3	SML1	4	BMT6	11
YNR071C	1	LSG1	3	NTE1	4	SAM1	11
AIF1	1	NSA1	3	ITT1	4	ADE13	11
COQ10	1	PRP43	3	HMG1	4	RPS22B	11
YOL024W	1	RPL1B	3	WAR1	4	RPL31B	11
GAS5	1	SUA5	3	PML39	4	RPL6B	11
OPI10	1	ROK1	3	ATR1	4	OST6	11
GSH2	1	GCN1	3	CDC5	4	SNO1	11
YOL057W	1	CSE1	3	PLB1	4	NUP53	11
RIB2	1	YGR054W	3	SEC59	4	RIT1	11
PHM7	1	DRN1	3	STB4	4	AAH1	11
MPD2	1	RRP46	3	FMS1	4	YPQ1	11
SPO21	1	NOP7	3	MAC1	4	NRT1	11
YOL097W-A	1	PPT1	3	MSS1	4	RGS2	11
IZH4	1	UTP8	3	CSI1	4	SWT1	11
SKM1	1	ENP2	3	MIH1	4	TGS1	11
PTH4	1	RBG2	3	IOC4	4	UTP20	12
HRP1	1	SKI6	3	AAC1	4	FUR4	12
GAS4	1	ZPR1	3	AEP1	4	PHO3	12
BSC6	1	SDA1	3	SEG1	4	TSR1	12
RRP40	1	EFG1	3	SNZ1	4	UTP4	12
GRE2	1	PXR1	3	MUB1	4	PUF6	12
FRE7	1	YGR283C	3	YMR102C	4	RPS8B	12
YOL162W	1	RPS20	3	YKU80	4	NSR1	12
YSP3	1	YHL017W	3	ASI1	4	ELP2	12
SGT2	1	EFM1	3	GID8	4	UTP25	12
TIR4	1	RPS27B	3	NDE1	4	BMT5	12
TIR2	1	BCD1	3	LDO16	4	UTP10	12
HSP10	1	INM1	3	DNF3	4	LIA1	12
HMS1	1	CIC1	3	MLH1	4	JJJ3	12
YOR032W-A	1	RPP1	3	CEP3	4	DBP7	12
EXO1	1	SSZ1	3	HOT1	4	DIP2	12
CYC2	1	RRP3	3	ECM5	4	IFH1	12

Table S1. Module ID list of genes grouped by WGCNA (cont'd)

Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID	Gene Name	Module ID
CRC1	1	RRP4	3	CIK1	4	IMD4	12
VAM3	1	TRM5	3	ERG12	4	DAT1	12
CEX1	1	NOP10	3	MRE11	4	YMR310C	12
GET4	1	RPF1	3	PPA2	4	NOP15	12
LCB4	1	GAR1	3	PRM15	4	DBP2	12
MPC54	1	FUR1	3	YKU70	4	NOG2	12
YOR186W	1	RPC10	3	TDA1	4	TRM10	12
SPR1	1	IMP3	3	YMR295C	4	NOB1	12
MCA1	1	DBP8	3	ADE4	4	RKI1	12
MKK1	1	NMD3	3	TGL3	4	RAS1	12
HES1	1	EGD2	3	YMR315W	4	PUS7	12
SSP2	1	UTP9	3	PET8	4	RPA43	12
CDC31	1	RIX1	3	YNL011C	4	RRP12	12
CAF20	1	RPL2B	3	SSN8	4	NOG1	12
RDL2	1	FAF1	3	SFB2	4	BMS1	12
TIM18	1	EFM4	3	SUN4	4	NEW1	12
MUM3	1	AIR1	3	NIS1	4	RPA135	12
RRG7	1	DPH1	3	YNL092W	4	SEO1	13
SNU66	1	SHQ1	3	RAS2	4	SUS1	13
VMA4	1	HPM1	3	MET4	4	MRPS5	13
UBC11	1	RRT14	3	LEU4	4	RAD59	13
CIN1	1	PAN6	3	FAR11	4	CAB1	13
SOG2	1	RPL40A	3	FYV6	4	VTC1	13
SNX3	1	SUC2	3	YNL146W	4	AGP3	13
FIT2	1	SQT1	3	ALF1	4	MET10	13
FIT3	1	YVH1	3	ASI2	4	CDC20	13
YOR389W	1	RPC17	3	YGP1	4	LAG1	13
FEX1	1	VTC4	3	PSD1	4	FMO1	13
RQC2	1	HCA4	3	APC1	4	SER33	13
RET3	1	MTR4	3	SWT21	4	OPT1	13
ARL3	1	TIM54	3	MGS1	4	MET3	13
LEE1	1	UTP18	3	POP1	4	CUE2	13
MFM1	1	CCT7	3	ATG4	4	MET1	13
VPS28	1	ALB1	3	MPA43	4	MMP1	13
YPL071C	1	GCD14	3	RTC4	4	COQ5	13
KAP120	1	RPA34	3	GIS2	4	ADI1	13
PXA1	1	PFD1	3	MSB3	4	IMP2	13
RRD2	1	RPL39	3	MRX6	4	ERG8	13
MEX67	1	RPS22A	3	SKP2	4	SOL1	13
MRPL40	1	NUC1	3	PFS2	4	YNR061C	13
CBC2	1	MPP10	3	LEM3	4	ENB1	13
PPQ1	1	SUI2	3	EGT2	4	YOL163W	13
CTI6	1	URB2	3	PEX6	4	BDS1	13
MRN1	1	RPA12	3	PET494	4	UAF30	13
GUP2	1	HAM1	3	LYS9	4	YPR071W	13