Table S1. Sensitivities of gene deletions strains generated in this study to various stress conditions.

ORF	Name	LatA	Bleo	MMS	HU	TBZ	Ben	SDS	Min	cHex	KCl	BFA	EGTA	Sorbi	Calc	H2O2	19	36
SPAC1006.05c	och1	VS	VS		VS	S	VS	VS	S	VS					S		S	S
SPAC1250.07	sfc7																	
SPAC12B10.03	bun62																	
SPAC12B10.06c	emi5																	
SPAC144.13c	srw1																	
SPAC1565.02c																		
SPAC167.05	dbs2		VS				R											
SPAC18B11.10	tup11																	
SPAC18G6.09c	dbs1		VS		R	S		S							VS		VS	
SPAC19E9.03	pas1						R								S			
SPAC1F12.06c																		
SPAC1F12.10c																		
SPAC1F3.02c	mkh1	S																
SPAC222.19	tam1				S		S	VS	S						S		S	
SPAC23A1.10	tef102																	
SPAC23C4.04c																		
SPAC23D3.17																		
SPAC27E2.12																		
SPAC2E1P5.01c	mns1						S											
SPAC2F3.13c																	VS	
SPAC2F7.16c	pld1																	
SPAC31A2.10																		
SPAC328.07c	bsd1																	
SPAC343.09	ubx3																	
SPAC3A11.08	pcu4			S														
SPAC4F10.15c	wsp1																	
SPAC4G9.07	mug133																	
SPAC688.07c	rng10		VS				VS	S							VS			
SPAC6F12.02	rst2																	
SPAC7D4.06c	alg3		VS				VS										VS	
SPAC806.03c	rps2601	VS																
SPAC821.04c	cid13				VS													
SPAC824.03c																		
SPAC8E11.12																		
SPAC9.09	met26																	
SPAC959.04c	omh6	VS	VS			S	VS	S	VS	VS	S		VS		S			
SPAC977.10	nhe1												S					
SPACUNK4.14	mdb1																	
SPAP4C9.02	emc5		VS												VS		S	
SPAPB18E9.02c	ppk18																	
SPAPB1A10.16																		
SPAPB24D3.10c	agl1																	
SPAPJ760.03c	adg1							VS										
SPBC11G11.02c	end3																	
SPBC1271.11	pet802																	
SPBC1289.01c	chr4						R											
SPBC12D12.04c	pck2	S					S											
SPBC12D12.05c																	S	
SPBC1347.06c	cki1																	
SPBC14C8.19	tam10																	
SPBC16C6.10	chp2						S											
SPBC16E9.19							R											
SPBC16G5.19																		
SPBC1778.06c	fim1	VS					VS	S										

ORF	Name	LatA	Bleo	MMS	HU	TBZ	Ben	SDS	Min	cHex	KCl	BFA	EGTA	Sorbi	Calc	H2O2	19	36
SPBC17G9.06c																		
SPBC19C7.04c							S											
SPBC19C7.11							S						S					
SPBC1A4.05	blt1																	
SPBC211.07c	ubc8																	
SPBC28E12.03	rga4	VS					S											
SPBC28F2.11	hmo1																	
SPBC29A3.01	ccc2				S				S				S		S			
SPBC29A3.17	gef3																	
SPBC2F12.07c	rpl802																	
SPBC2F12.13	klp5						R											
SPBC32F12.09	rum1																	
SPBC56F2.12	ilv5		S						VS						VS			VS
SPBC582.05c	brc1			S	VS													
SPBC646.12c	gap1																	
SPBC685.08																		
SPBC6B1.12c	sus1				VS													
SPBC713.02c	ubp15						VS											
SPBC800.14c																		
SPBP23A10.03c	sdh7																	
SPBP23A10.11c																		
SPBP26C9.03c	fet4						S											
SPBP35G2.16c	ecl2	S					S											
SPBPB8B6.06c	fex2																	
SPCC1183.05c	lig4																	
SPCC1393.14	ten1																	
SPCC1442.15c	cox18								VS									
SPCC16A11.12c	ubp1																	
SPCC4G3.03																		
SPCC4G3.12c																		
SPCC4G3.13c	cue1																	
SPCC645.14c	sti1																	
SPCC777.09c	arg1								VS									
SPCC970.01	rad16																	
SPCP1E11.09c	rpp103																	

Table S1. Sensitivies of gene deletion strains generated in this study to various stress conditions (Abbreviations: brefeldin A (BFA, 25 µM); bleomycin (1 µg/ml, Bleo); calcofluor (Calc, 0.5 mg/ml); cycloheximide (CHX, 10 µg/ml); EGTA (5 mM); hydroxyurea (HU, 7.5 mM); KCl (1 M); latrunculin A (Cayman chemical, Ann Arbor, Michigan) (LatA, 0.20 µM); Methyl 1-(butylcarbamoyl)-2-benzimidazolecarbamate (Benomyl, Ben, 10 µg/ml) (Roy et al., 1982); methyl methanesulfonate (MMS, 0.01%); sodium dodecyl sulfate (SDS, 0.005%); sorbitol (Sorb, 1.2 M); thiabendazole (TBZ, 12.5 µg/ml)). The following criteria were used to define not sensitive (NS), sensitive (S), very sensitive (VS) and resistant (R) strains: deletion strains that grew similarly or within 1 dilution factor of wildtype cells were scored as NS, deletion strains that grew at 2 or more dilutions less than wildtype under same conditions were classified as S, deletion strains that did not grow when wildtype cells grew were classified as VS, and deletion strains that grew better than wild-type cells were scored R.