

SUPPLEMENTAL TABLE

Table S1. PCR primers

Primer	Use	Sequence (5' → 3')
JC17	<i>SAT1</i> flipper	GGCCCCCCCCTCGAGGAAGTT
JC18	<i>SAT1</i> flipper	GCTCTAGAACTAGTGGATCT
JC182	5'NCR of <i>CNB1</i>	TGCATCATTGAAAGACATGG
JC183	5'NCR of <i>CNB1</i>	<u>AACTTCCTCGAGGGGGGGCCGTAGATATCGTTACGAGTG</u>
JC184	3'NCR of <i>CNB1</i>	<u>AGATCCACTAGTTCTAGAGCCGATTGTTACTTGTTCATG</u>
JC185	3'NCR of <i>CNB1</i>	CGTGAGTTGATAACATAACCA
JC186	<i>CNB1</i> overlap	TGGGAAACCAGCATTGTTGT
JC187	<i>CNB1</i> overlap	TCGGAAGAAGTGTGACA
JC188	<i>CNB1</i> ORF	ATGGGGGCCAATTCAAGTAT
JC189	<i>CNB1</i> ORF	CGTCAATGTGTTGCAATGG
JC48	Disruption confirmation	ACAATCAAAGGTGGTCCT
JC81	Disruption confirmation	AACTTCCTCGAGGGGGGGCC
JC400	3' NCR of 2nd allele of <i>CNB1</i>	<u>AGATCCACTAGTTCTAGAGCCCATTGCAAACACATTGACG</u>
JC402	5' NCR of 2nd allele of <i>CNB1</i>	<u>AACTTCCTCGAGGGGGGGCCGATGTATTCTTCAACT</u>
JC215	5'NCR of <i>CRZ1</i>	AGTATAATTCAACTGACTTCA
JC216	5'NCR of <i>CRZ1</i>	AACTTCCTCGAGGGGGGGCCAAAATTGACTAACGGG
JC217	3'NCR of <i>CRZ1</i>	<u>AGATCCACTAGTTCTAGAGCATTCAATTCTATGTGTTGT</u>
JC218	3'NCR of <i>CRZ1</i>	GGAAATATCATTAATTGATGC
JC219	<i>CRZ1</i> overlap	CACATGATCTGAAATATCTGA
JC220	<i>CRZ1</i> overlap	CCTTTCAGCAGATGTTAGTG
JC221	<i>CRZ1</i> ORF	TAATATCCGTCAGGATGAGGA
JC222	<i>CRZ1</i> ORF	ACATCGGAATATGCAGTTGG
JC405	5' NCR of 2nd allele of <i>CRZ1</i>	<u>AACTTCCTCGAGGGGGGGCCTCCTCATCCTGACGGATATT</u>
JC406	3' NCR of 2nd allele of <i>CRZ1</i>	<u>AGATCCACTAGTTCTAGAGCTAACCTCATCC</u>

Sequences complementary to the *SAT1* flipper are underlined.

SUPPLEMENTAL FIGURE LEGENDS

Figure S1. Amino acid identity and pairwise alignment of calcineurin regulatory subunit (Cnb1) from *C. tropicalis*, *C. albicans*, and *S. cerevisiae*. Amino acid identity and multiple sequence alignments are depicted using ClustalW software (http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=npsa_clustalw.html). **(A)** The % identity shared between the full-length proteins is shown in red. **(B)** The conserved amino acids and four Ca^{2+} -binding EF-hand motifs are indicated with green-shading and red-underlining, respectively. The ScCnb1 amino acids are numbered.

Figure S2. Amino acid identity and pairwise alignment of calcineurin downstream target Crz1 from *C. tropicalis*, *C. albicans*, and *S. cerevisiae*. **(A)** The % identity of the full-length proteins is shown in red. **(B)** The conserved amino acids and two zinc finger motifs (X₂-Cys-X_{2,4}-Cys-X₁₂-His-X_{3,4,5}-His; Cys₂His₂ type) are indicated with green-shading and red-underlining, respectively.

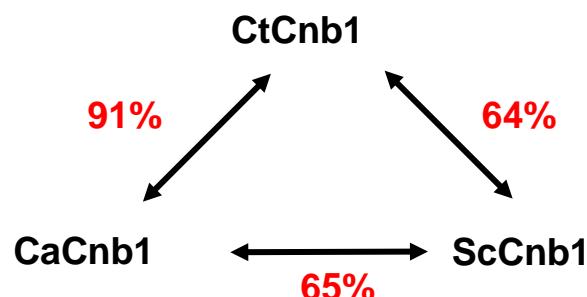
Figure S3. *C. tropicalis* is able to form hyphae on corn meal solid agar plate. *C. tropicalis* MYA3404 and *C. albicans* SC5314 strains were grown on cornmeal solid plate for 7 days. Filamentous cells on the edge of the colonies were excised with a sterile scalpel. Excised filamentous cells were mixed with 100 μl of calcofluor white solution (1 mg/ml; Fluorescent Brighter 28) and incubated for 5 minutes at room temperature. The cell mixtures were washed three times with 1 ml of dH₂O, and resuspended in 100 μl of dH₂O. Stained cell suspensions were spotted onto a slide and visualized at 400X magnification under bright field and UV, then photographed. The arrows represent calcofluor white staining site between two cells. Scale bar = 25 μm .

Figure S4. Mouse TLR4 is not required for protection from *C. tropicalis* in a murine systemic infection model. The survival of C3H/HeJ (TLR4 -/-; group of 5) or C3H/HeOuJ (TLR4 +/+, group of 5) mice following intravenous challenge with 5×10^6 *C. tropicalis* wild-type MYA3404 yeast cells was monitored for 5 days. The p value calculated by the Log-rank (Mantel-Cox) test method between the two groups was 0.602.

Figure S5. The loss of calcineurin or Crz1 does not affect cell growth at 37°C. **(A)** The calcineurin and *crz1/crz1* mutants exhibited wild-type growth curves in YPD medium at 37°C. Cells were grown overnight at 30°C, washed twice with dH₂O, diluted to 0.1 OD₆₀₀/ml in fresh YPD medium, and incubated at 37°C with shaking at 200 rpm. The OD₆₀₀ of cultures was measured at 0, 3, 6, 9, 12, 24, 48, 72, and 96 hours. **(B)** The calcineurin and *crz1/crz1* mutants exhibited wild-type doubling times (~1.2 hr) in YPD medium at 37°C.

Figure S1

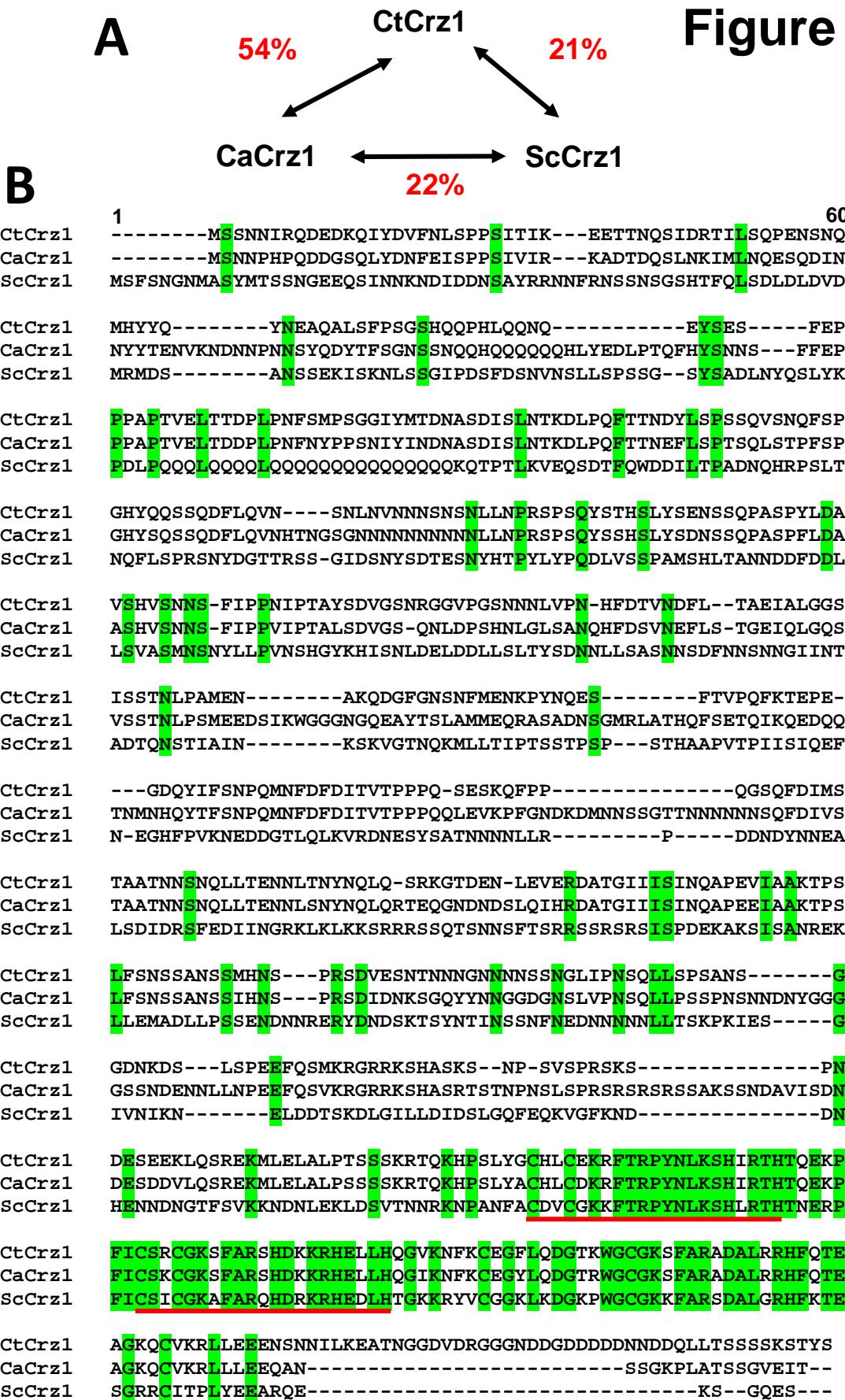
A



B

	1	60
CtCnb1	MGAN-SSILNGFMEDTNF	SIEEIHRMRKRFMKLDKGSGEIDKQEFLSIPGISSNPLATR
CaCnb1	MGAN-ASILDGFIEDTNF	SIEEIDRLRKRFMKLDKGSGQIDKQEFLSIPGISSNPLATR
ScCnb1	MGAAPSKIVDGLL	EDTNFDRDEIERLRKRFMKLDRDSSGSIDKNEFMSIPGVSSNPLAGR
	61	120
CtCnb1	LMDVFDTDGDGRIDFEEFITGLSAFSGKSDNLTKLKFAFN	IYDIDRDGYIGNGELFIVMK
CaCnb1	LMDVFDKDGDSIDFEEFITGLSAFSGKSDNLNKLRF	AFN
ScCnb1	IMEVFDADNSGDVDFQE	FITGLSIFSGRGSKDEKLRF
	121	175
CtCnb1	MMVGKNLQDEELQQIVDKT	TIMEADLDGDGKLNFEFFQKAVNTDSIANTTLNLF-
CaCnb1	MMVGKNLKDEELQQIVDKTL	MEADLDGDGKLNFEFFKNAVNTDTIANTTLNMF-
ScCnb1	IMVGSNLDDEQLQQIVDRT	IVENDSDGDGRLSFEEFKNAIETTEVAKSLTLQYDV

Figure S2



Candida tropicalis

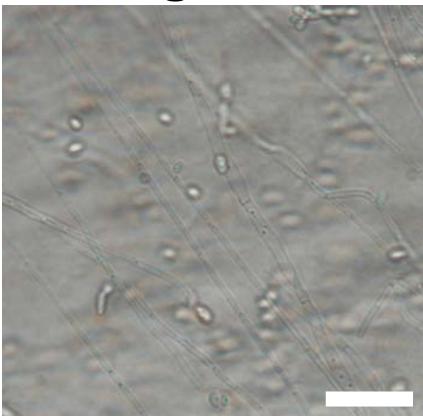
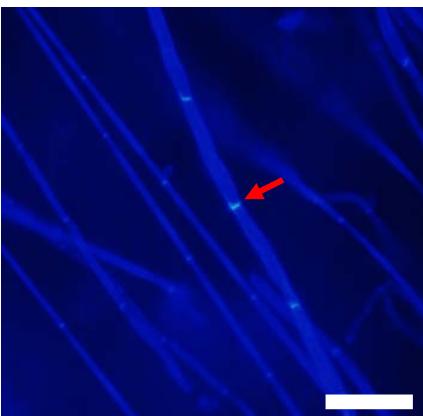


Figure S3

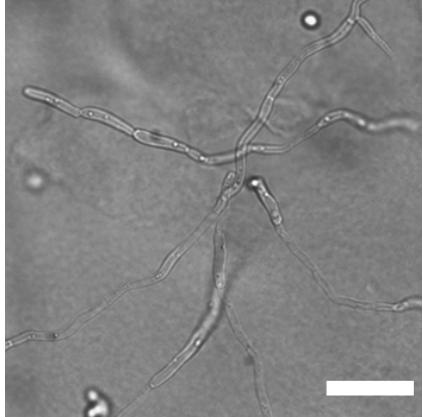
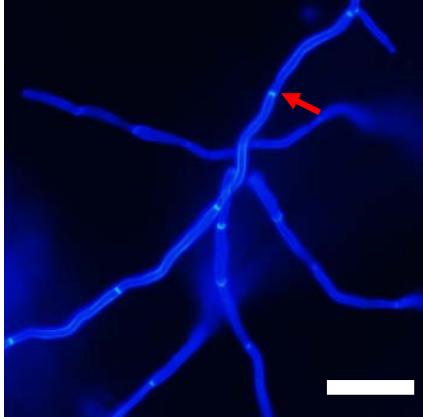
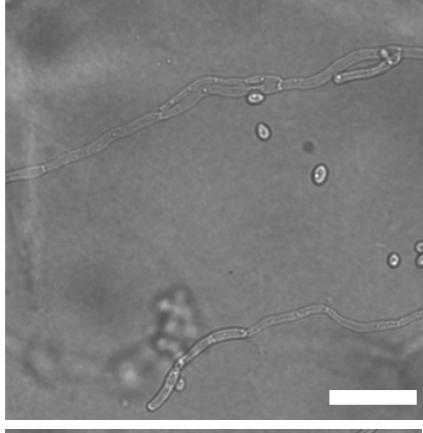
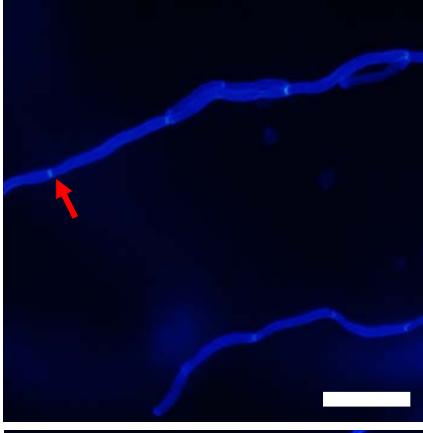
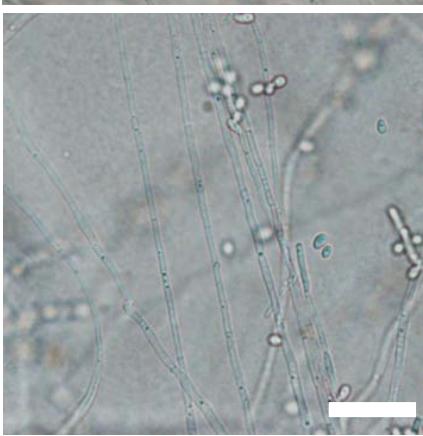
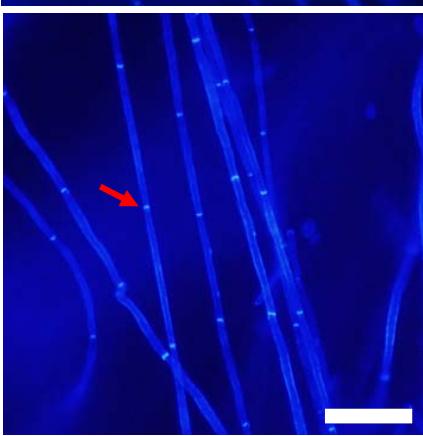


Figure S4

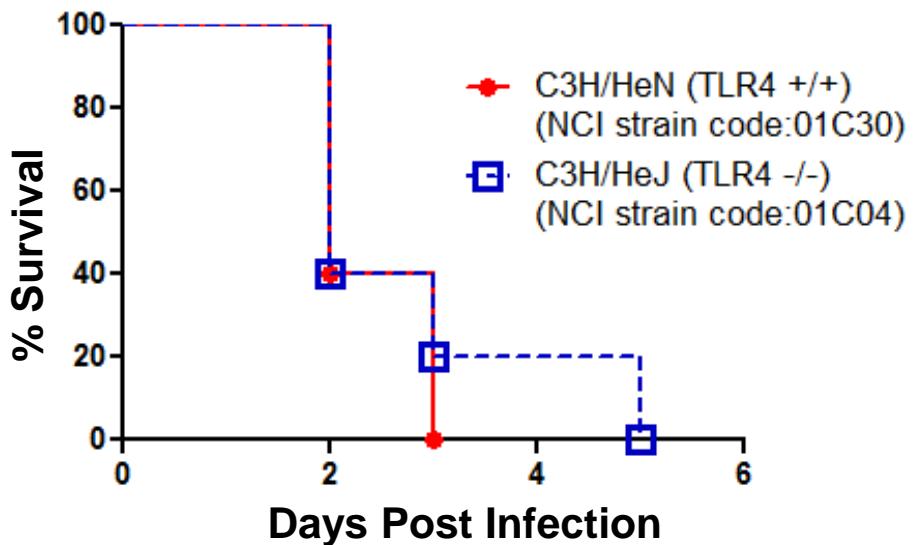
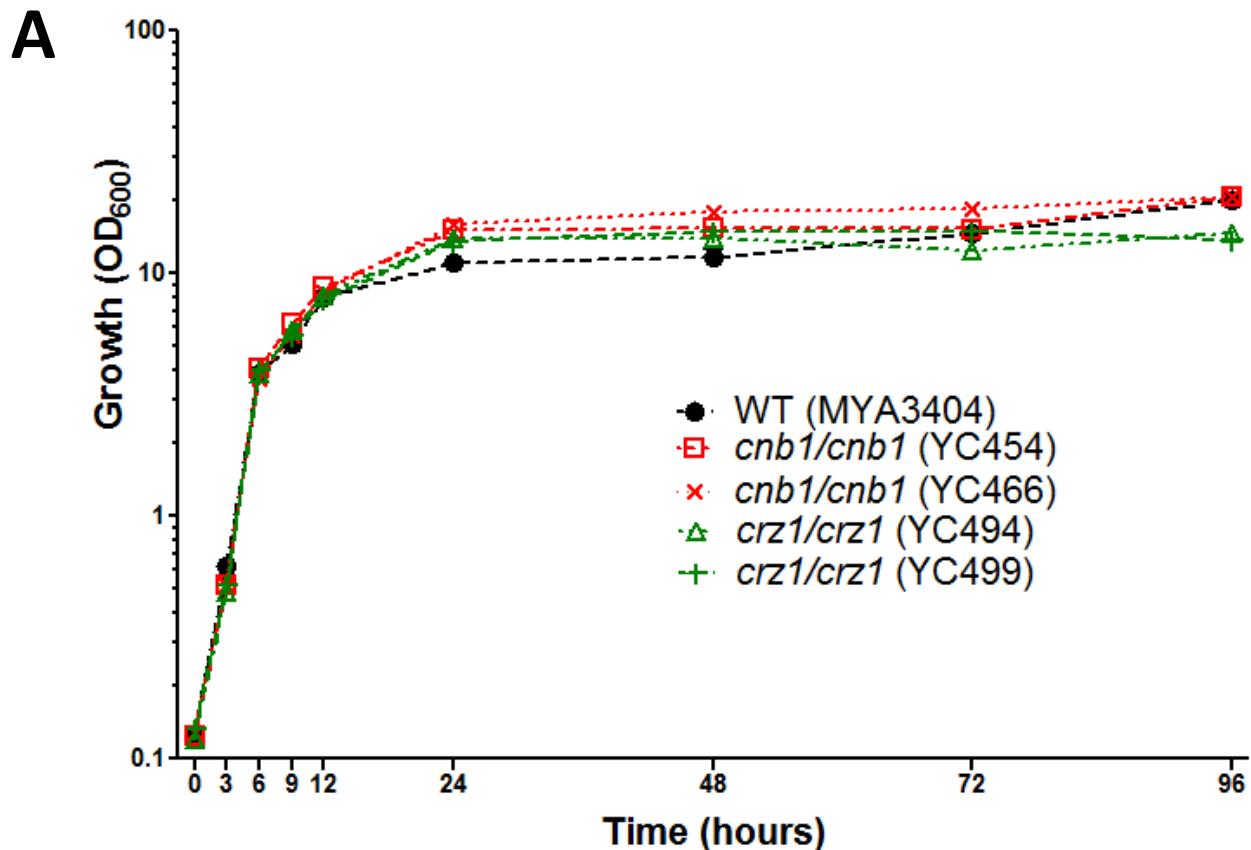


Figure S5



B

Strains	Doubling time (hr; in 6 hrs)
● WT (MYA3404)	1.20 ± 0.02
■ $cnb1/cnb1$ (YC454)	1.18 ± 0.02
✖ $cnb1/cnb1$ (YC466)	1.23 ± 0.02
▲ $crz1/crz1$ (YC494)	1.19 ± 0.03
✚ $crz1/crz1$ (YC499)	1.21 ± 0.03