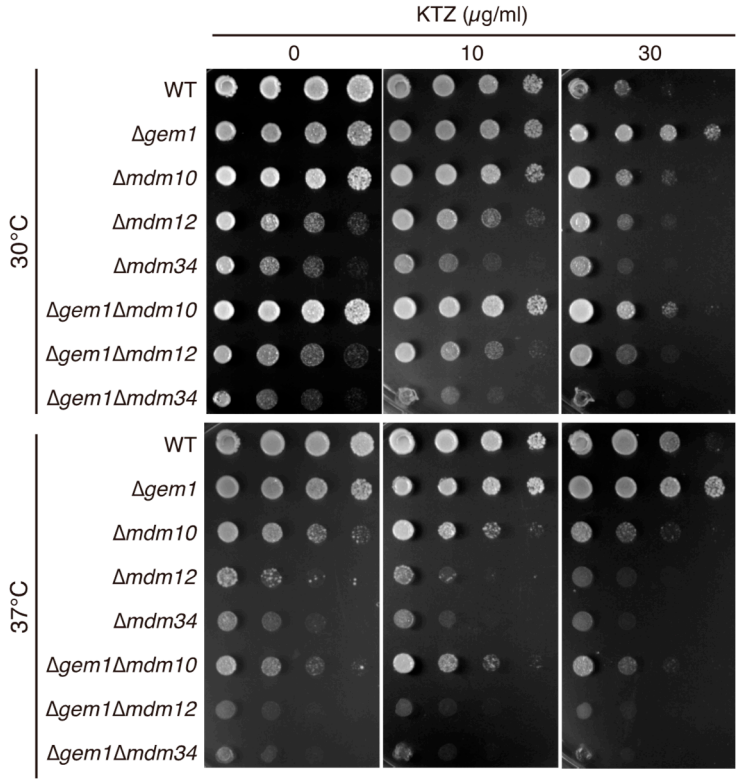
Table S1 List of strains

| Strain | parent | genotype | Reference |
|---|---|---|---|
| 2001HTU | | Δ*his3* Δ*trpl* Δ*ura3* | [49] |
| KUE100 | | *his3 yku80*::*SAT1* flipper | [50] |
| Δ*mdm10* | KUE100 | *mdm10*::*CgHIS3* | This study |
| Δ*mdm12* | KUE100 | *mdm12*::*CgHIS3* | This study |
| Δ*mdm34* | KUE100 | *mdm34*::*CgHIS3* | This study |
| Δ*mmm1* | KUE100 | *mmm1*::*CgHIS3* | This study |
| Δ*gem1* | KUE100 | *gem1*::*CgHIS3* | This study |
| Δ*gem1*Δ*mdm10* | KUE10 | *gem1*::loxP *mdm10*::*CgHIS3* | This study |
| Δ*gem1*Δ*mdm12* | KUE100 | *gem1*::loxP *mdm12*::*CgHIS3* | This study |
| Δ*gem1*Δ*mdm34* | KUE100 | *gem1*::loxP *mdm34*::*CgHIS3* | This study |
| Δ*gem1*Δ*mmm1* | KUE100 | *gem1*::loxP *mmm1*::*CgHIS3* | This study |
| Δ*gem1* (V) | 2001HTU | *gem1*::loxP, pGRB2.0 | This study |
| Δ*gem1* (GEM1) | 2001HTU | *gem1*::loxP *MDM34*::*mCherry-natMX6*, pGRB-GFP-*GEM1* | This study |
| Δ*gem1* (S19A) | 2001HTU | *gem1*::loxP *MDM34*::*mCherry-natMX6*, pGRB-GFP-gem1(T19A) | This study |
| Δ*gem1* (E216A) | 2001HTU | *gem1*::loxP *MDM34*::*mCherry-natMX6*, pGRB-GFP-gem1 (E216A) | This study |
| Δ*gem1* (E344A) | 2001HTU | *gem1*::loxP *MDM34*::*mCherry-natMX6*, pGRB-GFP-gem1 (E344A) | This study |
| Δ*gem1* (S452A) | 2001HTU | *gem1*::loxP *MDM34*::*mCherry-natMX6*, pGRB-GFP-gem1 (S452A) | This study |

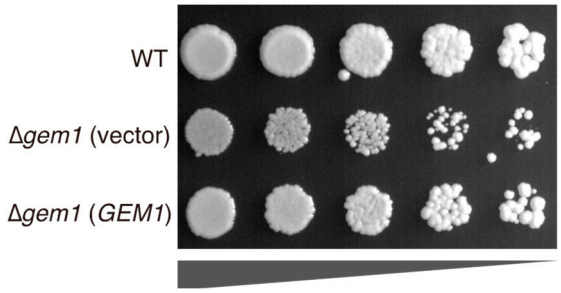
Table S2 List of PCR primers

| Primer | sequence (5'→3') |
|---|---|
| CDR1-F | ATGCTAACCCAGCTGAATGG |
| CDR1-R | TCTTTGGAAGCTCGTTGGAC |
| CDR2-F | CGCCAACCATGTAACAGATG |
| CDR2-R | TTTGAGCCACAGATCCACAC |
| PDR1-F | GTGAAGCGGAAGAAATGCTC |
| PDR1-R | TATTCGTCGAGAGCAAGCTG |
| GFP-GEM1-F1 | cactaaagggaacaaaagctggagctcCCAGATTTGATACTGTACACGTC |
| GFP-GEM1-R1 | ctttactcattctagaTGATAATCCTGTTACAGCCT |
| GFP-GEM1-F2 | aggattatcatctagaATGAGTAAAGGAGAAGAACT |
| GFP-GEM1-R2 | cttttgtcatgtcgacTCTAGATTTGTATAGTTCATCCATGCC |
| GFP-GEM1-F3 | actatacaaatctagagtcgacATGACAAAAGAAACCATCAG |
| GFP-GEM1-R3 | ctcactatagggcgaattgggtaccTATTTATCTTGGTCAAGAAT |
| pGRB2.1-F1 | GTACCCAATTCGCCCTATAGTGA |
| pGRB2.1-R1 | AGGATTATCACTCCAGCTTTTGTTCCCTTTAGTG |
| MDM34-F1 | GAAAAGAGACTCAAAAGAGCG |
| MDM34-R1 | GTTAATTAACCCGGGGATCCGATAATATGGTGGTGGTGGCG |
| MDM34-F2 | GTTTAAACGAGCTCGAATTCGGTATTTTTAAGCGTTATTGCTA |
| MDM34-R2 | CAACGGTCAACAACATCTTC |
| PFA6A-F | CGGATCCCCGGGTTAATTAAC |
| pFA6a-R | GAATTCGAGCTCGTTTAAAC |
| TOM70-F1 | CATGATGCTACTGAAGAGTCGG |
| TOM70-R1 | GTTAATTAACCCGGGGATCCGAAATCCTTGTCCACCATTACGAC |
| TOM70-F2 | GTTTAAACGAGCTCGAATTCATAAGCGAGCTCCTAAACCAGAC |
| TOM70-R2 | AAGGCATTAGCCTTCTCAAACG |




**Supplemental figureS1**

Growth of strains lacking ERMES components in the presence or absence of ketoconazole. The cells were diluted to $OD_{600}$ of 0.5 in water and spotted in 4-fold serial dilutions (indicated by triangles) on minimal SD medium containing the indicated concentration of ketoconazole (KTZ). Cells were incubated for two days at 30 °C or 37 °C.




**Supplemental figureS2**

Expression of GFP-GEM1 plasmid in Δ*gem1* cells. Wild-type cells (KUE100) and Δ*gem1* cells, which were transformed with pGRB2.0 (vector) or pGRB-GFP-*GEM1*(*GEM1*), were spotted in 4-fold serial dilutions, as indicated by triangles, and incubated at 30 °C in SC-Ura medium for 3days.