Supporting Information

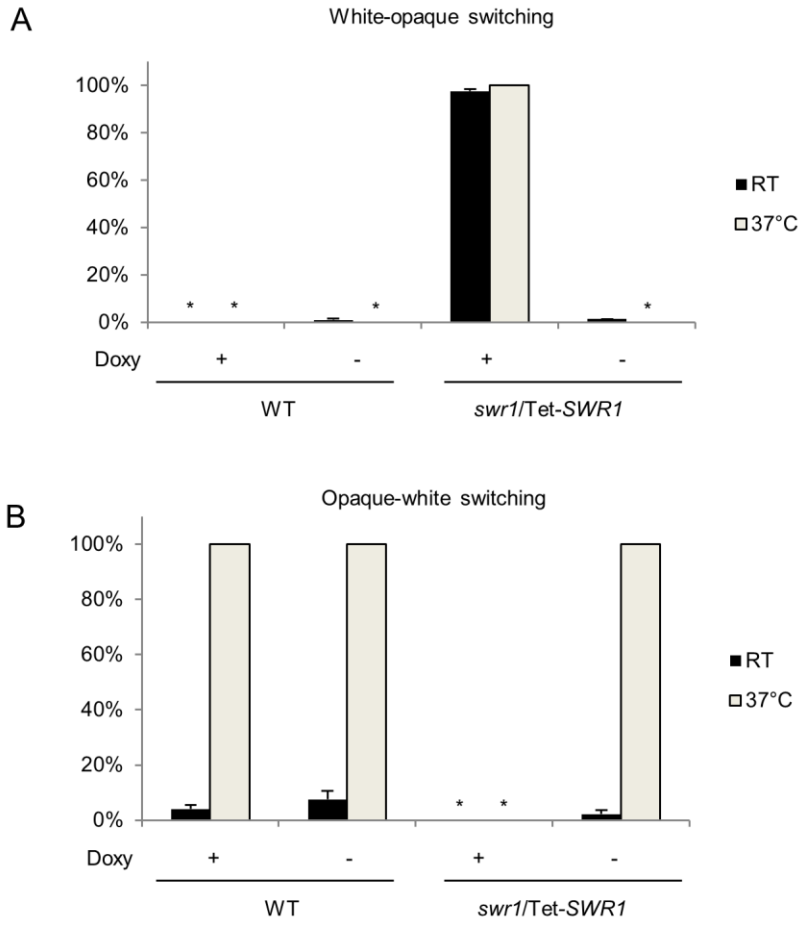

Figure S1. Expression of *SWR1* restores low white-to-opaque switching and opaque instability to *swr1*.

(A) White-opaque switching and (B) opaque-white switching of *MTL**a**/**a*** WT (HLY4357) and *swr1*/Tet-*SWR1* strain (HLY4296). The strains were converted from the *MTL**a**/α* wild-type strain CaSS1 and the *swr1*/Tet-*SWR1* conditional mutant from the GRACE collection (1) by growth on solid SC + 2% sorbose medium at a density of 10^5 cells per plate for 6 days (2). Stably white or opaque cells were grown on solid SCD medium with 50 μg/ml doxycycline to repress expression of *SWR1* from the pTet promoter, or without doxycycline for *SWR1* expression. White-opaque phenotype was assayed after 7 days of growth at RT or 37 ℃. *: 0% switching occured.

Table S1. Primers used for mapping the *WOR1* promoter.

Primer name + target amplicon location (bp upstream of *WOR1* ATG)	Sequence
ZG10F:3640-3540	TATACAGCCCATTGCTAGATC
ZG11F:3600-3500	AGAATGTCAAATGACATAATAAGA
ZG12F:3560-3460	GTAGAACCTGTACACTCTTTG
ZG13F:3520-3420	TATTTTTTTGCATTCTAGTTGCG
ZG14F:3480-3380	CTTTATTATTATCATTGTATGGTTT
ZG15F:3440-3340	CTAATGAATCCCGATAAATATATA
ZG16F:3400-3300	GAATCTTGTTTAAGTGATAGATT
ZG17F:3360-3260	AAAAAGTTTGTATCAGTTTCACTA
ZG18F:3320-3220	AATTACTGTTCAATCCCCAGAA
ZG19F:3280-3180	AAATCAACAGACTAACTACAAAC
ZG20F:3240-3140	TGAAAAATAAAAGGACAAAACAAG
ZG21F:3200-3100	TGGACTCTTCACTGTTTTGAAA
ZG22F:3160-3060	TATTTTCGTGAATATTTTTCCTTC
ZG23F:3120-3020	CTATTTTCAAGAAATTTCCACTT
ZG24F:3080-2980	TGTCCCCGTATTTGAGATATT
ZG25F:3040-2940	CTGAAATTTCCTGCTAGAGAG
ZG26F:3000-2900	TTATTCAAAATCTTGATACCCTAT
ZG27F:2960-2860	ATAGACTTTGATAGTTCATGATT
ZG28F:2920-2820	GTGCTTAATTCTAATTTTGCCA
ZG29F:2880-2780	GATCAAAAACAAAAAAAAAGAAAAT
ZG30F:2840-2740	ATGTCTATCTATATTCAAGTATC
ZG31F:2800-2700	GTAACTATAAAGGTTGTCTTGTA
ZG32F:2760-2660	TAACGTCATCTCATCTCAAATTT
ZG33F:2720-2620	AAACCAAAAAAAATTCTTAACTTTG
ZG34F:2680-2580	TTGTCGTCTTTGCTATAGTTAG
ZG35F:2640-2540	TTTCCTTTTTTTTGTCAATATCTC
ZG36F:2600-2500	TAGTATCAATATTACTGATCTTG
ZG37F:2560-2460	TGGCACTACCAAATGTAATAAT
ZG38F:2520-2420	AAATTTCGGGAGTTTAGTGATA
ZG39F:2480-2380	GGAAAAAAAAACAGGGAATTAC
ZG40F:2440-2340	GTATAGTCTGTGCAGACTTTG
ZG41F:2400-2300	CCTTGCATTTACAAAAGTTTAAAT
ZG42F:2360-2260	CTTTATTTAAAAACAAAAAAACAAAC
ZG43F:2320-2220	GGGAAACAAGGAACACAGTTA
ZG44F:2280-2180	GTTTATAGGCGGGTCTACATT
ZG45F:2240-2140	AAGAAAAAAAAACAACAATTACCAA

ZG46F:2200-2100	CCATTGTAACCATAAAGAAGTAT
ZG47F:2160-2060	AAGAAAAACCACTGGGTGTAAA
ZG48F:2120-2020	CAGATAGACATTTCATTTAAGCA
ZG97F:2080-1980	AGAGAGAAAACGAGAGAAGAAA
ZG98F:2040-1940	TTGAATTATTTAACACAACTTTGAA
ZG99F:2000-1900	CTCAAAGTTTTGATTTCTATTTTTT
ZG100F:1960-1860	TGAATTTATTCTTATTATTTTAACTC
ZG101F:1920-1820	CTATCAATTAGATCACTTAACTAT
ZG102F:1880-1780	TTTGCTGTTACTGCTACCACT
ZG103F:1840-1740	TTTTAAATTAAGTGAATTACCCC
ZG104F:1800-1700	GTCTTTTAAATTCAGGACACTAA
ZG105F:1760-1660	CGACCAACACTTTTTCTGATTT
ZG106F:1720-1620	CTCAGAAGTTCAATCACCGTT
ZG107F:1680-1580	ATAGGAGATTCCAGTTATCATT
ZG10R:3640-3540	AAAGAGTGTACAGGTTCTACT
ZG11R:3600-3500	GCAACTAGAATGCAAAAAAATAAT
ZG12R:3560-3460	CATACAATGATAATAATAAAGAAAA
ZG13R:3520-3420	TATTTATCGGGATTCATTAGCTT
ZG14R:3480-3380	CTATCACTTAAACAAGATTCGAA
ZG15R:3440-3340	AACTGATACAAACTTTTTCCTTT
ZG16R:3400-3300	TGGGGATTGAACAGTAATTGT
ZG17R:3360-3260	TGTAGTTAGTCTGTTGATTTACT
ZG18R:3320-3220	TTTTGTCCTTTTATTTTTCACAG
ZG19R:3280-3180	TCAAAACAGTGAAGAGTCCAC
ZG20R:3240-3140	GAAAAATATTCACGAAAATAATAGA
ZG21R:3200-3100	TGGAAATTTCTTGAAAATAGTAAC
ZG22R:3160-3060	ATATCTCAAATACGGGGACATT
ZG23R:3120-3020	TCTCTAGCAGGAAATTTCAGG
ZG24R:3080-2980	GGTATCAAGATTTTGAATAATAATA
ZG25R:3040-2940	CATGAACTATCAAAGTCTATGC
ZG26R:3000-2900	GCAAAATTAGAATTAAGCACCT
ZG27R:2960-2860	CTTTTTTTTTGTTTTTGATCAAAGT
ZG28R:2920-2820	ACTTGAATATAGATAGACATCAC
ZG29R:2880-2780	AAGACAACCTTTATAGTTACAATT
ZG30R:2840-2740	TTTGAGATGAGATGACGTTATAT
ZG31R:2800-2700	TTAAGAATTTTTTTTGGTTTTGTTC
ZG32R:2760-2660	AACTATAGCAAAGACGACAAAAA
ZG33R:2720-2620	TATTGACAAAAAAAAGGAAATGAC
ZG34R:2680-2580	GATCAGTAATATTGATACTACTAA
ZG35R:2640-2540	TATTACATTTGGTAGTGCCAGA
ZG36R:2600-2500	TCACTAAACTCCCGAAATTTCT

ZG37R:2560-2460	TTCCCTGTTTTTTTTTCCTTTTA
ZG38R:2520-2420	GTCTGCACAGACTATACACAA
ZG39R:2480-2380	TTAAACTTTTGTAAATGCAAGGAT
ZG40R:2440-2340	TTTTTTGTTTTTAAATAAAGTCAAAG
ZG41R:2400-2300	GTTTTTTTGTTTTTAAATAAAGTCAA
ZG42R:2360-2260	ATGTAGACCCGCCTATAAACA
ZG43R:2320-2220	AATTGTTGTTTTTTTTTCTTTGTCT
ZG44R:2280-2180	CTTCTTTATGGTTACAATGGTTT
ZG45R:2240-2140	TACACCCAGTGGTTTTTCTTA
ZG46R:2200-2100	TTAAATGAAATGTCTATCTGACAT
ZG47R:2160-2060	TCTTCTCTCGTTTTCTCTCTG
ZG48R:2120-2020	AGTTGTGTTAAATAATTCAATATTTA
ZG97R:2080-1980	ATAGAAATCAAAACTTTGAGATTTA
ZG98R:2040-1940	AAATAATAAGAATAAATTCAAAACCT
ZG99R:2000-1900	TTAAGTGATCTAATTGATAGTAGA
ZG100R:1960-1860	GTGGTAGCAGTAACAGCAAA
ZG101R:1920-1820	GTAATTCACTTAATTTAAAAGTTATA
ZG102R:1880-1780	GTGTCCTGAATTTAAAAGACAAA
ZG103R:1840-1740	ATCAGAAAAAGTGTTGGTCGTT
ZG104R:1800-1700	ACGGTGATTGAACTTCTGAGT
ZG105R:1760-1660	TGATAACTGGAATCTCCTATG
ZG106R:1720-1620	TTTGCCACAATGGAAAAAGTG
ZG107R:1680-1580	CCTGCTTTATTGAACACACAAT
For normalization to *BUD2* -1 nucleosome:	
BUD2-350F	AGACAGACAGCCCTCAATC
BUD2-350R	CTGAAATAAATTTTGGTATTGGA
BUD2-200F	CAGTTCTATCCTATATATAATATA
BUD2-200R	GATTAATTTTTTTTGGGGTATAAA
BUD2-50F	TCCACATTTTTAAATTAAAACTAT
BUD2-50R	CACGAGAAATGATTTTATGAAAT

Supporting references

1. **Roemer T, Jiang B, Davison J, Ketela T, Veillette K, Breton A, Tandia F, Linteau A, Sillaots S, Marta C, Martel N, Veronneau S, Lemieux S, Kauffman S, Becker J, Storms R, Boone C, Bussey H.** 2003. Large-scale essential gene identification in Candida albicans and applications to antifungal drug discovery. Mol Microbiol **50:**167-181.
2. **Janbon G, Sherman F, Rustchenko E.** 1998. Monosomy of a specific chromosome determines L-sorbose utilization: a novel regulatory mechanism in Candida albicans. Proc Natl Acad Sci U S A **95:**5150-5155.