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| TABLE S1: Strains used in this study |
| Yeast Strains | Background | Relevant Genotype |
| ACLY379 | W303a | MATa bar1Δ |
| ACLY379pch | W303a | MATa bar1Δ Δprm1::Pprm1-mCHERRY::hphMX6 |
| TCY3154 | W303a | MATa bar1Δ cdc28-as2 Δprm1::PPRM1-YFP::his5+ trp1::pACT1-CFP::TRP1 |
| RCY1130pch | W303a | MATa bar1Δ Δdig1::DIG1-YFP::URA3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| DPY112 | W303a | MATa bar1Δ Δste12::kanMX4 Δprm1::Pprm1-mCHERRY::hphMX6 |
| DPY250 | W303a | MATa bar1Δ Δste50::hphMX6 cdc28-as2 Δprm1::PPRM1-YFP::his5+ trp1::pACT1-CFP::TRP1 |
| RCY2005pch | W303a | MATa bar1Δ Δdig1::ura3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| DPY1203 | W303a | MATa bar1Δ Δste12::ste12S400A,S402A,T405A,S406A ::URA3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| CRY1004 | W303a | MATa bar1, ste12::ste12S400A::URA3, prm1::Pprm1-mCHERRY::hphMX6 |
| CRY1005 | W303a | MATa bar1, ste12::ste12S402A::URA3, prm1::Pprm1-mCHERRY::hphMX6 |
| CRY1006 | W303a | MATa bar1, ste12::ste12T405A::URA3, prm1::Pprm1-mCHERRY::hphMX6 |
| CRY1007 | W303a | MATa bar1, ste12::ste12S406A::URA3, prm1::Pprm1-mCHERRY::hphMX6 |
| DPY1204 | W303a | MATa bar1Δ Δste12::ste12T525A::URA3::URA3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| DPY1001 | W303a | MATa bar1Δ Δdig1::dig1S126A,S127A,S129A-YFP::URA3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| DPY1003 | W303a | MATa bar1Δ Δdig1::dig1T277A,S279A,T280A-YFP::URA3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| TCY3328 | W303a | MATa bar1Δ Δdig1::dig1T277A-YFP::URA3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| TCY3329 | W303a | MATa bar1Δ Δdig1::dig1S279A-YFP::URA3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| TCY3330 | W303a | MATa bar1Δ Δdig1::dig1T280A-YFP::URA3 Δste12::CFP-STE12::ura3 Δprm1::Pprm1-mCHERRY::hphMX6 |
| DPY5001 | W303a | MATa bar1Δ Δste50::ste50S202A,T205A::URA3 cdc28-as2 Δprm1::PPRM1-YFP-his5+ trp1::pACT1-CFP::TRP1 |
| TCY3344.2 | W303a | MATa bar1Δ Δste50::ste50S202A::URA3 cdc28-as2 Δprm1::PPRM1-YFP-his5+ trp1::pACT1-CFP::TRP1 |
| TCY3345.2 | W303a | MATa bar1Δ Δste50::ste50T205A::URA3 cdc28-as2 Δprm1::PPRM1-YFP-his5+ trp1::pACT1-CFP::TRP1 |
| *E. Coli* Strains | Commercial Source |
| BL21CodonPlus(DE3) | Stratagene, Inc. (now Agilent Technologies, Santa Clara, CA) |
| XL1-Blue Supercompetent Cells |  | Stratagene, Inc. (now Agilent Technologies, Santa Clara, CA) |
| XL1-Blue Electroporation-Competent Cells |  | Stratagene, Inc. (now Agilent Technologies, Santa Clara, CA) |
| DH5α |  | Invitrogen, Inc (Carlsbad, CA) |