**Table S5. Primers used in this study**

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| **Name** | **Sequence (5’ to 3’)** | **Purpose** |
| MFA1pGFP-F | TCAAACAAATAACTCTCAATTCTTATAAACTATATTAATTCAATCAACAAATTCAAATAAAAAATGAGTAAGGGAGAAGAACT | MFA1p-GFP reporter |
| MFA1pGFP- R  | TGCCATTGATATTGCATTTATATCCTATTGTTGAACAGTGACAGCACCTGTGGCGGTGGCTAGACCACCTTTGATTGTAAATAG |
| MFA1pGFP-DF | TTCAGTATGCTTTGGTGTAG | GFP reporter checking |
| GFP-DR | AGCATTGAAGACCATACGCG |
| Marker-F | CCGCTGCTAGGCGCGCCGTGACCAGTGTGATGGATATCTGC | Amplification for *ARG4, HIS1, LEU2, URA3* fragments used in fusion PCR |
| Marker-R | GCAGGGATGCGGCCGCTGACAGCTCGGATCCACTAGTAACG |
| MFA1-L Fwd | TTAGCTGCATTGTGTCTACC | Fusion PCR for *MFA1* KO |
| MFA1-L rev | CACGGCGCGCCTAGCAGCGGTATGAACTGCAAGAGGTTTG |
| MFA1-R Fwd | GTCAGCGGCCGCATCCCTGCTGTCACTGTTCAACAATAGG |
| MFA1-R rev | AGTAAACCTGGATTAGAAGC |
| MFA1-CHF | TTCAGTATGCTTTGGTGTAG | *MFA1* KO confirmation(first copy) |
| MFA1-CHR | AATCCTCATTCTGGTTGGTC |
| MFA1-orf-F ( MFA1-CHF) | TTCAGTATGCTTTGGTGTAG | *MFA1* KO confirmation(second copy) |
| MFA1-orf-R | AACAGAACAAGTGGAACAGC |
| MFA1-5DR | TCAAACAAATAACTCTCAATTCTTATAAACTATATTAATTCAATCAACAAATTCAAATAAAAATACCGGGCCCCCCCTCGAGGAAGTT | Construction of *wor1*Δ/Δ/*mfa1*Δ/Δ double mutant |
| MFA1-3DR | TGCCATTGATATTGCATTTATATCCTATTGTTGAACAGTGACAGCACCTGTGGCGGTGGCTAGCCGCTCTAGAACTAGTGGATC |
| MFα1pGFP-F | AACAATCACCAACAAACTACTAATCACTCTATAACATCAACTAATTAAATCAACAAAAATAACAATGAGTAAGGGAGAAGAACT | MFα1p-GFP reporter |
| MFα1pGFP- R  | TACCAATTCATCTAAACAAACATAAAAGTATGATTTCAGTATGCTTTCCATCTTCTTTACTTACGACCACCTTTGATTGTAAATAG |
| MFα1-L Fwd | TTCATTTATGCACGTCAAGG | Fusion PCR for  *MFα1* KO |
| MFα1-L rev | CACGGCGCGCCTAGCAGCGGTACTATCTATCCAGTGTATGG |
| MFα1-R Fwd | GTCAGCGGCCGCATCCCTGCAGAAGATGGAAAGCATACTG |
| MFα1-R rev | AAGATAGGCAAATGCAGAAG |
| MFα1-5DR | ACAATCACCAACAAACTACTAATCACTCTATAACATCAACTAATTAAATCAACAAAAATAACATACCGGGCCCCCCCTCGAGGAAGTT | Deletion of the second copy of *MFα1* |
| MFα1-3DR | ACCAATTCATCTAAACAAACATAAAAGTATGATTTCAGTATGCTTTCCATCTTCTTTACTTACGCCGCTCTAGAACTAGTGGATC |
| MFα1-CHF | TACATTGTTCTGCAAGTGAC | *MFα1* KO confirmation (first copy) |
| MFα1-CHR | AGTGAATCACCAGCTTATGG |
| MFα1-orf-F | TGCCACTATTGTTGCTGCTG | *MFα1* KO confirmation(second copy) |
| MFα1-orf-R | AGTCTAAAACCGGCTTCAGC |
| STE3-L Fwd | TCTGTCGTCGCTTAGTTAAAC | Fusion PCR for *STE3* KO |
| STE3-L rev | CACGGCGCGCCTAGCAGCGGATCTCCTCGATGTAGTGAATG |
| STE3-R Fwd | GTCAGCGGCCGCATCCCTGCTGATCCATCGTATCCTGTTAC |
| STE3-R rev | TACGGAACAAGTCAACCAAG |
| STE3-5DR | TTTTTAATACCTTAGCATACATAGAGAACTTTATTTTGGCTTCTTAATAATATTTAAAGCAAATACCGGGCCCCCCCTCGAGGAAGTT | Deletion of the second copy of *STE3* |
| STE3-3DR | ATTAGACTTGTTTTTTTTTTATTTATTATATTTTTCATCAACAAGTAACAGGATACGATGGAGCCGCTCTAGAACTAGTGGATC |
| STE3-CHF | ATTCTCAGGGGTTGTTTCATC | *STE3* KO confirmation (first copy) |
| STE3-CHR | ACATCGTTCTGCCAGATATTC |
| STE3-orf-F | TTTTGATGAAGCTTGGGATGG | *STE3* KO confirmation(second copy) |
| STE3-orf-R | AGTGACAAAGGAACCATAGC |
| WOR1-L Fwd | AAGAGAAAGAAAGAGAGAGAGG | Fusion PCR for  *WOR1* KO |
| WOR1-L rev | CACGGCGCGCCTAGCAGCGGGATGTTTGAGATGTCAGTGTAC |
| WOR1-R Fwd | GTCAGCGGCCGCATCCCTGCATATATGTGGGTCTGTGTGTG |
| WOR1-R rev | TCCCTTCATGAATAGTTTCC |
| WOR1-CHF | TTGCAGCAACAGATTTCCAC | *WOR1* KO confirmation (forst copy) |
| WOR1-CHR | TGCATCATAAGGTGAATTCG |
| WOR1-orf-F | ATGGTTTCAGCTGCTATACTGC | *WOR1* KO confirmation (second copy) |
| WOR1-orf-R | ATGATGATTCTGTTTGAGGTGG |
| MFA1-RT-F | ATGGCTGCTCAACAACAATC | Q-RT-PCR of *MFA1* |
| MFA1-RT-R | AACAGAACAAGTGGAACAGC |
| MFα1-RT-F | TGACAGTAACCAAGTTGTTG | Q-RT-PCR of *MFα1* |
| MFα1-RT-R | AGCACCAGAGGTAAGAGTAG |
| STE2-RT-F | TACTGGTTGGTATGATGGATC | Q-RT-PCR of *STE2* |
| STE2-RT-R | AAGGCAACAACAATCAATCC |
| STE3-RT-F | TGTTGGTAAGTTGGATGCTG | Q-RT-PCR of *STE3* |
| STE3-RT-R | TGCATATCTTGATCCTGTCAC |
| ASG7-RT-F | TTACGACTCTTTGAAAGCTTG | Q-RT-PCR of *ASG7* |
| ASG7-RT-R | TGCCAATGGTTCACTATTTG |
| HST6-RT-F | TGTAGCTCAACAATCAATGG | Q-RT-PCR of *HST6* |
| HST6-RT-R | TGATATACAAGACCACTGGAG |
| PBR1-RT-F | TGATTACGTTACTCCAGGTG | Q-RT-PCR of *PBR1* |
| PBR1-RT-R | AATACCATCAGAACCAGCAG |
| PXP2-RT-F | TGTTGTTTCATCGAGATCAC | Q-RT-PCR of *PXP2* |
| PXP2-RT-R | AATTGTTCAGGTCTGGTTTG |