

gIL001 YEL014\_cextF1 AACAGAAAGCAAGCAGACTCACAAAAATTTGATCACAGATCCCCGGGTAATTAAGG  
for knocking in GFP/ Tomato and KanMX/ NatMX at YEL014  
contains Forward Primer (GATCCCCGGGTAATTAAGG) and 40 bp upstream of YEL014C (AACAGAAAGCAAGCAGACTCACAAAAATTTGATCACA)

gIL002 YEL014\_cextR1 GTCCCTGCTATTAGATTTGTAACCAAGAATTACTTTAGTAATACGACTCACTATAGGG  
for knocking in GFP/ Tomato and KanMX/ NatMX at YEL014C  
contains Reverse Primer (TAATACGACTCACTATAGGG) and 40 bp downstream of YEL014C (GTCCCTGCTATTAGATTTGTAACCAAGAATTACTTTAGC)

gIL003 YLR255\_cextF1 CTAACGAGGCCGCGAGGGTGGATTTCGCCGACGGTGAGATCCCCGGGTAATTAAGG  
for knocking in GFP/ Tomato and KanMX/ NatMX at YLR255C  
contains Forward Primer (GATCCCCGGGTAATTAAGG) and 40 bp upstream of YLR255C (CTAACGAGGCCGCGAGGGTGGATTTCGCCGACGGTGAG)

gIL004 YLR255\_cextR1 GAATCTATACACAGAAATCGTACTTCAAGAAATTTGATAATACGACTCACTATAGGG  
for knocking in GFP/ Tomato and KanMX/ NatMX at YLR255C  
contains Reverse Primer (TAATACGACTCACTATAGGG) and 40 bp downstream of YLR255C (GAATCTATACACAGAAATCGTACTTCAAGAAATTTGCA)

gIL005 KanMX4\_intR1 ATCGCGAGCCCAATTTATACC  
for verification of KanMX transformants

gIL006 NatMX\_intR1 TGTCTCAAGAGTGTACCC  
for verification of NatMX transformants

gIL007 YEL014\_extF2 AGCAACTACAACATGAMCCC  
for verification of integration at YEL014C  
219 bp upstream of YEL014C

gIL008 YLR255C\_extF2 CCTAAAGAGCAGCTGAGG  
for verification of integration at YLR255C  
237 bp upstream of YLR255C

gIL009 REV1\_extF1 TCCGATGAACCTAAACATTGG  
for amplification of rev1Delta cassette

gIL010 REV1\_extR1 TCCATTCAAGGATTCAMAGG  
for amplification of rev1Delta cassette

gIL011 MSH2\_extF1 AAATGTTGACACTCTACTCC  
for amplification of msh2Delta cassette

gIL012 MSH2\_extR1 ATGAATAACTGTACTTTGTC  
for amplification of msh2Delta cassette

gIL013 RAD52\_extF1 AAAGACGAAAAATATAGCGG  
for amplification of rad52Delta cassette

gIL014 RAD52\_extR1 ATTAATACGACACATGGAGG  
for amplification of rad52Delta cassette

gIL015 RAD14\_extF1 ACATAGCAGACTGCTAGTGG  
for amplification of rad14Delta cassette

gIL016 RAD14\_extR1 AGAAAGAGAGCAAGAATAGG  
for amplification of rad14Delta cassette

gIL017 REV1\_extF2 CTACGAACTTGCTGATGTCC  
for verification of rev1 deletion

gIL018 MSH2\_extF2 CGCACTCCATCAAGTGAACC  
for verification of msh2 deletion

gIL019 RAD52\_extF2 AATCACACTTACTCATCGCC  
for verification of rad52 deletion

gIL020 RAD14\_extF2 GATAGCACCGGTAGTTTTCC  
for verification of rad14 deletion

gIL021 SNP1\_APC1\_F GTTTCAAAATCTGGGCTTGT

gIL022 SNP1\_APC1\_R TGGGCATATTCTCTTGGTG

gIL023 SNP2\_EDS1\_F CGGTTCCGCTCAATTTTATC

gIL024 SNP2\_EDS1\_R ACACCTGCCCTTTTTTTGCG

gIL025 SNP3\_SUM1\_F GCCTGCCTCTTTTTCTTTTG

gIL026 SNP3\_SUM1\_R CACACACCAATCAGTTTTGG

gIL027 SNP4\_STE7\_F GGGCTAAAAGTAAGAATTTTC

gIL028 SNP4\_STE7\_R ACGGGATTGTGATAGAGAA

gIL029 SNP5\_MEF2\_F CAACAAAAATCTTGCATTGC

gIL030 SNP5\_MEF2\_R CGTTTGGCCAGTCTCATCATT

gIL031 SNP6\_CPD1\_F TGTAGGCGTATCAAGTCTT

gIL032 SNP6\_CPD1\_R CACTCAGCACAAATTTCTTG

gIL033 SNP7\_STE11\_F GGCAAACTGATGGGGTT

gIL034 SNP7\_STE11\_R CCAGGGGTATGAGAAATCAAT

gIL035 SNP8\_STE5\_F TACACCTCTACGGTTCCA

gIL036 SNP8\_STE5\_R TCGTTTGTCTTCAACAGG

gIL037 SNP9\_IKS1\_F GTGGTTCAAGGGCAATTC

gIL038 SNP9\_IKS1\_R TACAACGATTTGCAAGTGGCG

gIL039 SNP10\_intragenicChrX\_F TCGGAGAAACCAATGACAAGG

gIL040 SNP10\_intragenicChrX\_R GATTAGACAATCTTGGCAG

gIL041 BIM1\_extF1 AGAGACGCTTGATCTTCT

gIL042 BIM1\_extR1 ATTATTGGGTCGAAGCCAT

gIL043 BIK1\_extF1 TTCTGCATGGTTCTCTTGAG

gIL044 BIK1\_extR1 AACGGTAGAATCGGCAAAAC

gIL045 CAP1\_extF1 TTCAACAACAGTTCGGATCACG

gIL046 CAP1\_extR1 AACCCGATCATTAAAGGCTG

gIL047 DEG1\_extF1 TGTTTTTATGCTGCTGAGC

gIL048 DEG1\_extR1 CAACCTATTTACATCTTCCG

oGIL049 STE4\_extF1 GTTTCTTCCCCTTTTGTAG

oGIL050 STE4\_extR1 GCATCCATTGATAACTACTGC

oGIL051 STE4\_intF1 CATATATTGACAGCAAGTGG

oGIL052 STE4\_intR1 AGAAATATAGCAAGTATGTCC

oGIL053 SSK1\_extF1 CCCCTGGATTGAATCTTGA

oGIL054 SSK1\_extR1 ACACGATCACTCTTCATCAT

oGIL055 BIM1\_extF2 AGTCAAAGACATCGAGAGG

oGIL056 BIK1\_extF2 TGACATTTGCTCGCATTGG

oGIL057 CAP1\_extF2 TCTTTTCTGTGTAAGCCC

oGIL058 DEG1\_extF2 ACCCGAGATTCCCATCC

oGIL059 STE7\_extF1 AGTCTAAGATTGTGTGCC  
to generate a ste7 delete strain

oGIL060 STE7\_extR1 GGGTTATTAAATCCCTTCGG  
to generate a ste7 delete strain

oGIL061 KanMX/NatMX\_intR1 CCTTAATTAACCCGGGGATC  
This is a generic reverse primer for KanMX and NatMX cassettes. It is the reverse complement of the forward primer in oGIL001 and oGIL003.

oGIL062 STE7extF2 GTGGCTTAAAAGATGTGG  
For verification of STE7 deletion

oGIL063 GPA1\_intF1\_BamHI AGTTTTATTGGATCCAGCAATGAGTGAATACGACC  
For cloning the C-terminus of the RM allele of GPA1 and the ClonNAT cassette from strain JW1 from the Kruglyak lab

oGIL064 GPA1\_extR1\_SacII TACCAGGACCCGGTTCGAGATAATACCTGTCC  
For cloning the C-terminus of the RM allele of GPA1 and the ClonNAT cassette from strain JW1 from the Kruglyak lab

oGIL065 HIS3\_extF1 AGCCAAGATAACCAAGGCA  
For amplification of the HIS3 gene in order to render a his3-11,15 auxotroph prototrophic

oGIL066 HIS3\_extR1 TGCAGCTTTAAATAATCGGTG  
for amplification of the HIS3 gene in order to render a his3-11,15 auxotroph prototrophic

oGIL067 GPA1\_intF1\_BglII AGTTTTATTAGATAGCAATGAGTGAATACGACC  
For cloning the C-terminus of the RM allele of GPA1 and the ClonNAT cassette from strain JW1 from the Kruglyak lab

oGIL068 GPA1\_intF1\_HindIII AGTTTTATTAACTAGCAATGAGTGAATACGACC  
For cloning the C-terminus of the RM allele of GPA1 and the ClonNAT cassette from strain JW1 from the Kruglyak lab

oGIL069 GPA1\_intF2 AATTAACTACGCGCTGCC

oGIL070 GPA1\_extR2 ATATATCCCGATTTTACC

oGIL071 GPA1\_intR1\_SNP\_RM GTTCCTTCATATAATACCAC  
For SNP PCR detection of the RM GPA1 allele

oGIL072 GPA1\_intR1\_SNP\_W303 GTTCCTTCATATAATACCAC  
For SNP PCR detection of the W303 GPA1 allele

oGIL073 GPA1\_intF3\_SNP\_RM CCAGCAAAACCTTAAAAAAG  
For SNP PCR detection of the RM GPA1 allele

oGIL074 GPA1\_intF3\_SNP\_W303 CCAGCAAAACCTTAAAAAAT  
For SNP PCR detection of the W303 GPA1 allele

oGIL075 YEL014CextF3 TCAGTCTCTCTTCGTAGG

oGIL076 YEL014CextR3 GCTGTTTTGATTATAGG

oGIL077 GPA1\_extR3\_SNP\_RM TAATGGAGAAGAAAAATAGC

oGIL078 GPA1\_extR3\_SNP\_W303 TAATGGAGAAGAAAAATAGT

oGIL079 GPA1\_extR4\_SNP\_RM CTTTTTCATTGGCATTCCG

oGIL080 GPA1\_extR4\_SNP\_W303 CTTTTTCATTGGCATTCCA

oGIL081 BARI\_extF1 CTTAAGAGGCCGTTGAAGG

oGIL082 BARI\_extR1 ACTAAATGGTGAAGCGCGG

oGIL083 URA3\_BARI\_extF1 ACTGCACAGACAAAAACCTGCAGGAAACGAGATAAATCTTAAGAAGCCGTTGAAGG

oGIL084 URA3\_BARI\_extR1 GTGAGTTAGTATACATCTTACTTATAATACAGTTTTACTAAATGGTGAAGCGCGG

oGIL085 URA3\_extF3 TTGATTCGTAATCCCGAG

oGIL086 URA3\_extR1 TCATTATAGAAATCATTACG

oGIL087 BARI\_extF2 TAAAAAGAGTGTCTAGAAGG

oGIL088 BARI\_intF3 AGTGGTGTCTTGGAAATTGG

oGIL089 BARI\_intF4 ACAGAAGCGAGCTATTGTGG

oGIL090 BARI\_intF5 ATTGCAATCTCAACTACC

oGIL091 BARI\_extR2 CTATAAGAAATGTACTCC

oGIL092 BARI\_intR3 TTCAGCTGTAGCAATTTGG

oGIL093 BARI\_intR4 AAACCTTGATTCATCAATGG

oGIL094 BARI\_intR5 CCTCTTCGTGTTGTAAMAGG

oGIL095 SUC2\_extF1 ttcacagcaagaacaatcaaaataaaatccatatagacgtacCGTACGCTGCAGGTCGAC  
for knocking out SUC2 with KanMX4 in S. kudriavzevii  
contains Primer U2 from the deletion collection (CGTACGCTGCAGGTCGAC) and 42 bp upstream of SUC2 from S. kudriavzevii (ttcacagcaagaacaatcaaaataaaatccatatagacgtac)

oGIL096 SUC2\_extR1 AGAAGATATAAAAAAGATAGCTGAATCATACACCGCTCTATCATGATTCGAGCTCG  
for knocking out SUC2 with KanMX4 in S. kudriavzevii  
contains Primer D2 from the deletion collection (ATCGATGAATTCGAGCTCG) and 41 bp upstream of SUC2 from S. kudriavzevii (AGAAGATATAAAAAAGATAGCTGAATCATACACCGCTCT)

oGIL097 HO\_extF1 agatataatagacagcaattatttcaatataacctaataacgCGTACGCTGCAGGTCGAC  
for knocking out HO with KanMX4 in S. kudriavzevii  
contains Primer U2 from the deletion collection (CGTACGCTGCAGGTCGAC) and 42 bp upstream of HO from S. kudriavzevii (agatataatagacagcaattatttcaatataacctaataacg)

oGIL098 HO\_extR1 TTTCTAAGCAGAACATTAAATCTATACATATTTAATCAATGATGATTCGAGCTCG  
for knocking out HO with KanMX4 in S. kudriavzevii

contains Primer D2 from the deletion collection (ATCGATGATTCTGAGCTCG) and 41 bp upstream of HO from S. kudriavzevii (TTTCTAAGCAGAAACATAAACTCTACATATTTAATACA)

gIL099 URA3extF6 AATGTGGCTGGTTTCAGG  
For amplifying the ura3delta0 cassette off of the deletion collection strains

gIL100 URA3extR6 GTTACTTGGTCTGGCGAGG  
for amplifying the ura3delta0 cassette off of the deletion collection strains

gIL101 URA3intF7 GTCGAAAGCTACATAAAG  
for sequencing ura3 mutants

gIL102 URA3intR7 CAGTTTTTAGTTTTGCTGG  
For sequencing ura3 mutants

gIL103 GAL1\_extF1 ATATACCTCTACTTTAACGTCAAGGAGAAAACTATAGATCCCCGGTTAATAAGG  
for knocking out GAL1 with NatMX from pAG25

gIL104 GAL1\_extR1 TGAGAAGTTGTTCTGAACAAGTAAAAAAGAAGTATACTAATACGACTACTATAGGG  
for knocking out GAL1 with NatMX from pAG25 and for tagging GAL1 with mCherry::NatMX from pAC80

gIL105 GAL10\_extF1 CCATCCAAAAAAGTAAGAAATTTTGAATAATCAATCAACGTACGCTGACGTCGAC  
for knocking out GAL10 with KanMX from pFA6a

gIL106 GAL10\_extR1 TATAGAGTCATATTTCAAGAAGGATAGTAGCTGGCAAAATCGATGATTCGAGCTCG  
for knocking out GAL10 with KanMX from pFA6a

gIL107 GAL7\_extF1 TCAACATGATAAAAAAACAAGTGAATATCCCTCAAAGATCCCCGGTTAATAAGG  
for knocking out GAL7 with HphMX from pAG32

gIL108 GAL7\_extR1 ATAGAAAAATATGATATGAATGAATATCCACTTTCTTTAATACGACTACTATAGGG  
for knocking out GAL7 with HphMX from pAG32

gIL109 GAL10mCherry\_forward ACGGTGAACTACGGGTCCAAGATTGCTACAGATTTCCATGGTGAAGCGCCGAGG  
for tagging GAL10 with mCherry::KanMX from pAC77

gIL110 GAL10mCherry\_reverse ATAGAGTGATATTTCAAGAAGGATAGTAGCTGGCAATAATACGACTACTATAGGG  
for tagging GAL10 with mCherry::KanMX from pAC77

gIL111 GAL7mCherry\_forward TAAGAAATTTAGATGGTCAGATTCATTATCTCAAAAGACTGATGGTGAAGCGCCGAGG  
for tagging GAL7 with mCherry::KanMX from pAC77

gIL112 GAL7mCherry\_reverse ATAGAAAAATATGATATGAATGAATATCCACTTTCTTTAATACGACTACTATAGGG  
for tagging GAL7 with mCherry::KanMX from pAC77

gIL113 GAL1\_extF2 AACGTCAAGGAAAAAAC  
this oligo recognizes some of the CDS and should have been labeled ext/intF2

gIL114 GAL1\_extR2 ATTCATATAGACAGCTGCC  
this oligo recognizes some of the CDS and should have been labeled ext/intR2

gIL115 GAL10\_extF2 AATGACAGCTCAGTACAAG  
this oligo recognizes some of the CDS and should have been labeled ext/intF2

gIL116 GAL10\_extR2 GTAAGCTGGCAATCAGGAA  
this oligo recognizes some of the CDS and should have been labeled ext/intR2

gIL117 GAL7\_extF2 CCCTCAAAATGACTGCTGA  
this oligo recognizes some of the CDS and should have been labeled ext/intF2

gIL118 GAL7\_extR2 CCACTTTCTTTTACAGTCTT  
this oligo recognizes some of the CDS and should have been labeled ext/intR2

gIL119 HIS3\_extF1 TTCTATTACTCTGGCTCC

gIL120 HIS3\_extR1 AAGGAAAGCGCGCTCGTTC

gIL121 GAL1\_extF3 AAATGAAAAGCTGATAACC

gIL122 GAL10\_extF3 ATGGGCTCTTACATTTCC

gIL123 GAL7\_extF3 TACAGTGTCCAAAAATAGCC

gIL124 HphMX\_intR1 GTGAGTTCAGGCTTTTACC  
for verification of HphMX transformants

gIL125 YEL014C\_extF4\_NotI GTGGATCGCCCGCTGTAATAATTAAGATGG  
YEL014C\_extF4\_NotI and YEL014C\_extR4\_ClaI amplify 500 bp upstream of the dubious ORF YEL014C and contain NotI and ClaI sites

gIL126 YEL014C\_extR4\_ClaI TAGTCATCGATTGTGATCAAAATTTTGTGTG  
YEL014C\_extF4\_NotI and YEL014C\_extR4\_ClaI amplify 500 bp upstream of the dubious ORF YEL014C and contain NotI and ClaI sites

gIL127 YEL014C\_extF5\_SacI TATCCAGAGCTCGCTAAAGTAATCTTGGTT  
YEL014C\_extF5\_SacI and YEL014C\_extR5\_NotI amplify 500 bp downstream of the dubious ORF YEL014C and contain SacI and NotI sites

gIL128 YEL014C\_extR5\_NotI TGTTCAGCGCCGCAATTACAAGACTGTGGCGG  
YEL014C\_extF5\_SacI and YEL014C\_extR5\_NotI amplify 500 bp downstream of the dubious ORF YEL014C and contain SacI and NotI sites

gIL129 GAL7\_extR2 AACATAGGTGAGGATTTCC

gIL130 YEL014C\_extR4\_NotII TAGTCCGACGTCTGTGATCAAAATTTTGTGTG

gIL131 YEL014C\_extF6\_ClaI TATCCAATCGATGTAAGTAATCTTGGTTT

gIL132 YEL014C\_extR6\_NotI ATAGTCGGCCCGCCATGAGGATATGACTG

gIL133 pRS403\_URA3\_extF ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCTCACTATAGGGCAATGG  
pRS403\_URA3\_extF and pRS403\_URA3\_extR will PCR amplify over the MCS of pRS403 and contain 40 bp of homology to URA3

gIL134 pRS403\_URA3\_extR GTGAGTTTGTATACATGCAATTAATAATACAGTTTGAATTAACCTCACTAAAGG  
pRS403\_URA3\_extF and pRS403\_URA3\_extR will PCR amplify over the MCS of pRS403 and contain 40 bp of homology to URA3

gIL135 YEL014C\_extF7 TATTAACGGCCAAATACCC

gIL136 YEL014C\_extR7 CAAATGAAGTACAGGATTTCC

gIL137 Scer\_STE2\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCoagcaactgtagatagttcc

gIL138 Scer\_STE2\_URA3\_extR1 GTGAGTTTGTATACATGCAATTAATAATACAGTTTGGAACTTCATTTAGATCCC

gIL139 Scer\_STE11\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCoaataaactgagcaagttcc

gIL140 Scer\_STE11\_URA3\_extR1 GTGAGTTTGTATACATGCAATTAATAATACAGTTTGTACAGGCAATTTGGTCTCC

gIL141 Scer\_STE7\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATcttagatgagtgatgagttcc

gIL142 Scer\_STE7\_URA3\_extR1 GTGAGTTTGTATACATGCAATTAATAATACAGTTTACTATGATGCTGCTCTTG

gIL143 Scer\_STE5\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCcttagaagatcaagtttcc

gIL144 Scer\_STE5\_URA3\_extR1 GTGAGTTTGTATACATGCAATTAATAATACAGTTTGAACCAACAGACTAGACC

oGIL145 Scer\_FUS3\_URA3\_extF1 ACTGCACAGAACAAAAACCTGCAGGAAACGAAGATAAATcttgagagattgactacttg  
 oGIL146 Scer\_FUS3\_URA3\_extR1 GTGAGTTTAGTATACATGCTTACTTATAATACAGTTTTGCTAATGTAAGCCCGTGG  
 oGIL147 Sbay\_STE2\_URA3\_extF1 ACTGCACAGAACAAAAACCTGCAGGAAACGAAGATAAATcttgaataacgatcgtagtgg  
 oGIL148 Sbay\_STE2\_URA3\_extR1 GTGAGTTTAGTATACATGCTTACTTATAATACAGTTTTCAACAACATCTAGCTGTGG  
 oGIL149 Sbay\_STE11\_URA3\_extF1 ACTGCACAGAACAAAAACCTGCAGGAAACGAAGATAAATCaacaatccttgggttatccc  
 oGIL150 Sbay\_STE11\_URA3\_extR1 GTGAGTTTAGTATACATGCTTACTTATAATACAGTTTTCAAGCATTCCATTACTTC  
 oGIL151 Sbay\_STE7\_URA3\_extF1 ACTGCACAGAACAAAAACCTGCAGGAAACGAAGATAAATcttatgtaatggcgatgcag  
 oGIL152 Sbay\_STE7\_URA3\_extR1 GTGAGTTTAGTATACATGCTTACTTATAATACAGTTTTGGAAGACCATGGACTGTG  
 oGIL153 Sbay\_STE5\_URA3\_extF1 ACTGCACAGAACAAAAACCTGCAGGAAACGAAGATAAATCgagataggtaccaaatatagg  
 oGIL154 Sbay\_STE5\_URA3\_extR1 GTGAGTTTAGTATACATGCTTACTTATAATACAGTTTTGATTGTATCTATACTACGG  
 oGIL155 Sbay\_FUS3\_URA3\_extF1 ACTGCACAGAACAAAAACCTGCAGGAAACGAAGATAAATCgcaaaagacatgcaagg  
 oGIL156 Sbay\_FUS3\_URA3\_extR1 GTGAGTTTAGTATACATGCTTACTTATAATACAGTTTTGGAGAGACTAAAACACGGG  
 oGIL157 Scer\_STE2\_extF1 aacgaactgtagaatgctc  
 oGIL158 Scer\_STE2\_extR1 GGAAACTCATTTAGATCCC  
 oGIL159 Scer\_STE11\_extF1 aatataactgagcaagtcc  
 oGIL160 Scer\_STE11\_extR1 GTACAGCGAATTGGGTCC  
 oGIL161 Scer\_STE7\_extF1 ttatgcaatggcgatgcgg  
 oGIL162 Scer\_STE7\_extR1 ACTATGGATTGCTTCCTTG  
 oGIL163 Scer\_STE5\_extF1 tctagaagatcaagttcc  
 oGIL164 Scer\_STE5\_extR1 GACCACAACAGAACTAGACC  
 oGIL165 Scer\_FUS3\_extF1 ttggagagattgactacttg  
 oGIL166 Scer\_FUS3\_extR1 TGCTAATGTAAGCCCGTGG  
 oGIL167 Scer\_STE2\_intF2 AGGAAGCCAGAAGTCTGG  
 oGIL168 Scer\_STE11\_intF2 GAGTTGGATTATCAATACAGG  
 oGIL169 Scer\_STE7\_intF2 GAATTAAGAAGAAAGCCTTGG  
 oGIL170 Scer\_STE5\_intF2 TCGAGCTTATAGAGCGG  
 oGIL171 Sbay\_FUS3\_intF2 GTTGATCACTACAAGGAGG  
 oGIL172 Sbay\_STE2\_intF2 CCGATGAAGAAGCAAGAAGG  
 oGIL173 Sbay\_STE11\_intF2 AACTACTACAACATCCGTGG  
 oGIL174 Sbay\_STE7\_intF2 CTTAGAACGTCTAAGCTGG  
 oGIL175 Sbay\_STE5\_intF2 GCGAAATAGAAAGCGTGG  
 oGIL176 Sbay\_FUS3\_intF2 ACCTCAAGAGCTGATCTGG  
 oGIL177 FUS1\_extR1 TGATTTTCAGAACTTGATGG  
 oGIL178 Scer\_STE2\_extF3 ctcaataagcttttaatacaccc  
 oGIL179 Scer\_STE11\_extF3 gcagctttatacaagttagcc  
 oGIL180 Scer\_STE7\_extF3 aagtattattgatggaacc  
 oGIL181 Scer\_STE5\_extF3 ctgataaacagttgtttgaoc  
 oGIL182 Scer\_FUS3\_extF3 cttaaacatcaagcagatcc  
 oGIL183 Tp\_BGL2\_intF1 AGATGTTAATCATTAGCC  
 oGIL184 Tp\_BGL2\_intR1 TTAAGAGAAAGTTACAATCC  
 oGIL185 Tp\_265\_intF1 TCATGGAGGGTGAATCCC  
 oGIL186 Tp\_265\_intR1 CTTAGCGGATCCGACTCC  
 oGIL187 Tp\_185\_intF1 GGGAAATAGGGTTCGATCC  
 oGIL188 Tp\_185\_intR1 CTGTATTGCTCAAACTCC  
 oGIL189 Tp\_TEF1\_intF1 CTTAATCTCAAGTGTGGTGG  
 oGIL190 Tp\_TEF1\_intR1 CACCAGATTCAAGAATTTGG  
 oGIL191 Sb\_STE5\_extF1 CTGCGTGCACCTACAACCTGTGGCCCTGCC  
 Includes SalI site for integration into YcPlac33  
 oGIL192 Sb\_STE5\_extR1 GAACgagatccGGCTGAGGAAATCAGCTTCC  
 Includes BamHI site for integration into YcPlac33  
 oGIL193 Sc\_STE5\_extF1 GTAACCCGGGCTTAGGGTTACCGGCTG  
 Includes SmaI site for integration into YcPlac33  
 oGIL194 Sc\_STE5\_extR1 AGAAGAGCTCCGCTCCACTCAAAATCACGG  
 Includes SacI site for integration into YcPlac33  
 oGIL195 Sp\_STE5\_extF1 ATAGTCTAGACCATGATAATTTTAGCGATG  
 Includes XbaI site for integration into YcPlac33  
 oGIL196 Sp\_STE5\_extR1 TATCGATCCTAGGCCATTGATTCAAAAGG  
 Includes BamHI site for integration into YcPlac33  
 oGIL197 Scas\_STE5\_extF1 GAACCTGCAGGTAACACGTTACCCGCGAG  
 Includes PstI site for integration into YcPlac33  
 oGIL198 Scas\_STE5\_extR1 TATGGTGCAGCCACTGATATTATGACTAG  
 Includes SalI site for integration into YcPlac33  
 oGIL199 Sb\_Fus3\_extF1 GGCAAGCTCCGTAATCAATATCATGGC  
 Includes HindIII site for integration into YcPlac33  
 oGIL200 Sb\_Fus3\_ext R1 CGCTCTGACGCAATCAGCAAGCGGATTG  
 Includes PstI site for integration into YcPlac33

oGIL201 Sc\_Fus3\_extF1 GAAGCTGCAGCCAAAGAGAATAGACAAAAT  
Includes PstI site for integration into YCplac33

oGIL202 Sc\_Fus3\_ext R1 ATTTTCTAGACATGTGCTGTCAGCCCAAC  
Includes XbaI site for integration into YCplac33

oGIL203 Sm\_Fus3\_extF1 AAATGTCGACATTTGCTGCTCTTTCCTT  
Includes SalI site for integration into YCplac33

oGIL204 Sm\_Fus3\_ext R1 AAGATCTAGACTGTTGTCTTGCCGCTGT  
Includes XbaI site for integration into YCplac33

oGIL205 Sp\_Fus3\_extF1 GAAGCTAGACCAMGGGAATAGACTAAA  
Includes XbaI site for integration into YCplac33

oGIL206 Sp\_Fus3\_ext R1 ACCGCCGGGGTTGGTGGAGAACGTTG  
Includes SmaI site for integration into YCplac33

oGIL207 Scas\_Fus3\_extF1 ACTGAAGCTTTTCACTCGCAATTAATTC  
Includes HindIII site for integration into YCplac33

oGIL208 Scas\_Fus3\_extR1 ATCAGGATCCGTCAGCCCACTTATTCTC  
Includes BamHI site for integration into YCplac33

oGIL209 Sklu\_Fus3\_extF1 AGACTTAGATATCATGCCACTGTGGTGG  
Includes XbaI site for integration into YCplac33

oGIL210 Sklu\_Fus3\_extR1 CTCTGGATCCCAAAATGAGATACTGTCAT  
Includes BamHI site for integration into YCplac33

oGIL211 Skud\_Fus3\_extF1 TGTCAAGCTTCTTATTGCAATCTAGTGG  
Includes HindIII site for integration into YCplac33

oGIL212 Skud\_Fus3\_extR1 AGCGGGATCCACTCTGCTTCAACAGAT  
Includes BamHI site for integration into YCplac33

oGIL213 Sm\_STE5\_extF1 AGTAGTCGACTGGGAGATAGTAGAGCCA  
Includes SalI site for integration into YCplac33

oGIL214 Sm\_STE5\_extR1 AGCTGGATCCACTGAGAAGCAGACTCCT  
Includes BamHI site for integration into YCplac33

oGIL215 Sklu\_Fus3\_extF2 GATATCTAGACCAGTGGTGGAAATCTCTC  
Includes XbaI site for integration into YCplac33

oGIL216 Sklu\_Fus3\_extR2 AGGAGATCCCATGGCATTGTACGTTC  
Includes BamHI site for integration into YCplac33

oGIL217 Int\_extF1 AATACGCAACCCCTCTC

oGIL218 Int\_extR1 ATTCAGGCTGCGCAACTGTT

oGIL219 Scas\_Ste5\_IntF2 CTTCAAAGCTGCATCAC

oGIL220 Scas\_Ste5\_IntR2 GTCCCTTTATTAGAGTGGC

oGIL221 Scas\_Ste5\_IntF3 CCGAAACATCGAGAAATGTC

oGIL222 Scas\_Ste5\_IntR3 TTTGTCGTATCCAGAAGGA

oGIL223 Scas\_Ste5\_IntF4 CTCTTCATACCACCTTGG

oGIL224 Scas\_Ste5\_IntR4 CCAAGGTGGTTATGAAGAG

oGIL225 Scas\_Ste5\_IntF5 CTCAACTTACCGTTACCC

oGIL226 Scas\_Ste5\_IntR5 CGTCAGCTAATGGGAAATC

oGIL227 Scas\_Ste5\_IntF6 TCAACCATTCCATGTGCC

oGIL228 Scas\_Ste5\_IntR6 GGTCTTGGTAAGGAGGAAGTT

oGIL229 Scas\_Ste5\_IntF7 CTAGGCCAACATCACCTGA

oGIL230 Scas\_Ste5\_IntR7 TAAGTTGTACATGGCGGTGG

oGIL231 Sb\_Fus3\_IntF2 GCCTTGAGATGACGAGCTA

oGIL232 Sb\_Fus3\_IntR2 TTTATACGGCCGCTCTCA

oGIL233 Sb\_Fus3\_IntF3 GCAATCAAGAAGATCGAGC

oGIL234 Sb\_Fus3\_IntR3 TACTCGGTGATGCGTCTCT

oGIL235 Sb\_Fus3\_IntF4 TGATATTCGGCGTTATCGG

oGIL236 Sb\_Fus3\_IntR4 TTCGGATGGACACTGGCTA

oGIL237 Sb\_Fus3\_IntF5 TCTGGAACGAGATCTTCAGC

oGIL238 Sb\_Fus3\_IntR5 TTTCCGCTGCTTTGTTGCT

oGIL239 Sp\_Fus3\_IntF2 AAGAGAATACTACTAGGCC

oGIL240 Sp\_Fus3\_IntR2 ATACGTCGCGATCTTCAGC

oGIL241 Sp\_Fus3\_IntF3 GGGAGAATCTGGGCAATT

oGIL242 Sp\_Fus3\_IntR3 CGACTCTATGCACTGCAAAATC

oGIL243 Sp\_Fus3\_IntF4 TTGCAGTGCATAGAGTCGC

oGIL244 Sp\_Fus3\_IntR4 CTTGTCAAATGGCTCGATC

oGIL245 Sp\_Fus3\_IntF5 GCTGAAGATCGGACGCTAT

oGIL246 Sp\_Fus3\_IntR5 AAGGCCTGAGTATTCTC

oGIL247 Skud\_Fus3\_IntF2 ATGTGGTATGGTCGGCATT

oGIL248 Skud\_Fus3\_IntR2 TGCTCGAGCCAAATCAACA

oGIL249 Skud\_Fus3\_IntF3 AGTTGATGACAGCGGACCT

oGIL250 Skud\_Fus3\_IntR3 GCTGGACGCACTTATGT

oGIL251 Skud\_Fus3\_IntF4 ACACGTACCAGCATCCGAA

oGIL252 Skud\_Fus3\_IntR4 GCTTGAAGTGCTTCAGGATCT

oGIL253 Skud\_Fus3\_IntF5 CTGCAACAGCCATCCCAT  
oGIL254 Skud\_Fus3\_IntR5 AAAGAGTCCGACGGGCAA  
oGIL255 Sc\_Ste5\_Int\_F2 AAAGCAGGCTGTGCACAT  
oGIL256 Sc\_Ste5\_Int\_R2 AAGAACTGCTGCACCTCA  
oGIL257 Sc\_Ste5\_Int\_F3 GTTCTCACCAATCTAGG  
oGIL258 Sc\_Ste5\_Int\_R3 CCTCTTGCATCGTCATCAT  
oGIL259 Sc\_Ste5\_Int\_F4 GGGTTATCCTATACACTG  
oGIL260 Sc\_Ste5\_Int\_R4 TCGACAGTACTCGCCTAG  
oGIL261 Sc\_Ste5\_Int\_F5 TGCGCCGATTTATCAGATC  
oGIL262 Sc\_Ste5\_Int\_R5 CCAATCTGCAATTCTCC  
oGIL263 Sc\_Ste5\_Int\_F6 AATACTCTATATCCGAAA  
oGIL264 Sc\_Ste5\_Int\_R6 GGCTGTCACATAACGTACAA  
oGIL265 Sc\_Ste5\_Int\_F7 GAATCGATGGCATAACCAG  
oGIL266 Sc\_Ste5\_Int\_R7 CGGATGCTAGATGGGTTAA  
oGIL267 Sc\_Ste5\_Int\_R8 AAATGACAGCCGCTAAC

oGIL268 pFA6a\_URA3\_F1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCgaagcttcgtagctgcagg  
pFA6a\_URA3\_F1 and pFA6a\_URA3\_R1 will PCR amplify the fluorescent protein from yGIL038-yGIL041 and contain 40 bp of homology to URA3  
oGIL269 pFA6a\_URA3\_R1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGTCAAGGAGGATTCTGG  
pFA6a\_URA3\_F1 and pFA6a\_URA3\_R1 will PCR amplify the fluorescent protein from yGIL038-yGIL041 and contain 40 bp of homology to URA3  
oGIL270 pFA6a\_URA3\_F2 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCctatcacatcacgatttagg  
pFA6a\_URA3\_F2 and pFA6a\_URA3\_R1 will PCR amplify the fluorescent protein from yGIL038-yGIL041 and contain 40 bp of homology to URA3  
oGIL271 pFA6a\_URA3\_R2 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGTCCGGCATAAAATGTATGG  
pFA6a\_URA3\_F2 and pFA6a\_URA3\_R1 will PCR amplify the fluorescent protein from yGIL038-yGIL041 and contain 40 bp of homology to URA3  
oGIL272 Scer\_Fus3\_extF3 cgcgcaagcttgatcgcctgcagctcagctcagagatcCAAAGAGAAATAGACAAAAT  
oGIL273 Scer\_Fus3\_extR3 cgcgctgtgtaaacgacgcccagtgcaattcgagctcggtacATGCTGTTCCGCCAAC  
oGIL274 Smik\_Fus3\_extF3 cgcgcaagcttgatcgcctgcagctcagctcagagatcATTTGTCTGCTTCTTCTCT  
oGIL275 Smik\_Fus3\_extR3 cgcgctgtgtaaacgacgcccagtgcaattcgagctcggtacATGCTGTTCCGCCGCTGT  
oGIL276 Scas\_Fus3\_extF3 cgcgcaagcttgatcgcctgcagctcagctcagagatcTCACTCGCATTTAAATTC  
oGIL277 Scas\_Fus3\_extR3 cgcgctgtgtaaacgacgcccagtgcaattcgagctcggtacTTCAGCCCACTTATTCTC

oGIL278 CAN1extF\_Y1pLac128 AAAGTTTTATTGAGATCTTCACTCTTAACTCCTGTcaagcttgatcgcctgcagg  
oGIL279 CAN1extR\_Y1pLac128 ATGGCGTGGAAATGTGATCAAGGTAAATAAACGTCATATgccagtgcaattcgagctcgg

oGIL280 CAN1extF1  
TTATACTTATAGTTGATCC  
oGIL281 CAN1extR1  
TATAGTAAGCTCATTGATCC

oGIL282 NGFPextR1  
ACAAGAATTGGGACAACTCC

oGIL283 CGFPextR1  
TCTGCTAGTTGAGCCTTCC

oGIL284 GAL1mCherry\_forward TCGTCTCTAAACCAGATTGGGCGCTGTCTATATGAATTAATGGTAGCAGGGCGGAGG  
for tagging GAL1 with mCherry::NatMX from pAC80 along with GAL1\_extR1

oGIL285 Agos\_STE11\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCTCGCTTCTCTCGCTGTCC  
oGIL286 Agos\_STE11\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTATCATGTTGGAAATGGGTCC  
oGIL287 Agos\_STE7\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCGAACGCCCTGTCTGATGG  
oGIL288 Agos\_STE7\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTCAAGGAGAAAGAACAGCAGG  
oGIL289 Agos\_STE5\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCTTGGCTGCTTCAACC  
oGIL290 Agos\_STE5\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGCATTGATAAATGGACAC  
oGIL291 Agos\_FUS3\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCGGAGATTGGCTGCTCTCC  
oGIL292 Agos\_FUS3\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTAGAGCTTCCCAAGCGCACCC  
oGIL293 Scer\_STE5\_URA3\_extF2 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCATCAAGTTTCTTTAAAGGG  
oGIL294 Scer\_STE5\_URA3\_extR2 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTCTGTCACCTTCAAAATTCACGG  
oGIL295 Agos\_STE2\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCTAATCCGAAACAGATGG  
oGIL296 Agos\_STE2\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTAAATTTGATGATAAAGTGG  
oGIL297 Agos\_FUS3\_URA3\_extF2 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCTCTCCGTCGCATGCAACC  
oGIL298 Agos\_FUS3\_URA3\_extR2 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTCAACAAAGCATCGGCGACC  
oGIL299 Spar\_STE2\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCTAGAAGAACTGTAGAATGG  
oGIL300 Spar\_STE2\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGGGTTTTTATATGTAAGG  
oGIL301 Spar\_STE11\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCGCAATCTTTTGAATCATGG  
oGIL302 Spar\_STE11\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGGTAATCAAAAAGAAAGG  
oGIL303 Spar\_STE7\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCATAAGTTATTATGCGAATGG  
oGIL304 Spar\_STE7\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGTAGTATTCTTTGTGAGG  
oGIL305 Spar\_STE5\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCCATGATAATTTAGCGATG  
oGIL306 Spar\_STE5\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGTAGCATTGATCAAAAGG  
oGIL307 Spar\_FUS3\_URA3\_extF1 ACTGCACAGAACAAAACTGCAGGAAACGAAGATAAATCCAAAGGGAATAGACTAAA  
oGIL308 Spar\_FUS3\_URA3\_extR1 GTGAGTTTGTATACATGCACTTACTATAATACAGTTTGGTTGGTTGGAACGTTG

oGIL309 Spar\_STE2\_intF2 CGATACAGCTGCTGATGAGG  
 oGIL310 Spar\_STE11\_intF2 GCTGCAGATCCATGGCTGG  
 oGIL311 Spar\_STE7\_intF2 ATGATAAATTTAGACATTGG  
 oGIL312 Spar\_STE5\_intF2 GATGAAATAACAGACGTGG  
 oGIL313 Spar\_FUS3\_intF2 GTTTGATCACTACAAGGAGG  
 oGIL314 Agos\_STE2\_intF2 TCTTCTGGCGTTGAGTGC GG  
 oGIL315 Agos\_STE11\_intF2 AATTGCTCCAGCATAAATGG  
 oGIL316 Agos\_STE7\_intF2 CTCCGCCAGGCTGCCATGG  
 oGIL317 Agos\_STE5\_intF2 GTTAGTTCTAACAAATAGTGG  
 oGIL318 Agos\_FUS3\_intF2 ATCTCAAGCGCATGCTGTGG  
 oGIL319 Spar\_STE11\_URA3\_extF3 TGATCCTCTGTGTCATGAGG  
 oGIL320 Spar\_STE11\_URA3\_extF3 TGAATACTGTAGTTAGTCGG  
 oGIL321 MATalpha\_extF1 CAGTACTCGAAGATAAACACCTCCGCCAGCCACACTGATCCCCGGTTAATTAAGG  
 for knocking out MATalpha (and probably MATa) with HphMX from pAG32  
 oGIL322 MATalpha\_extR1 ATATATTCTACAGATATACATATTTGTTTTCCGGCTAATACGACTCACTATAGGG  
 for knocking out MATalpha (and probably MATa) with HphMX from pAG32  
 oGIL323 Scer\_STE12\_URA3\_extF1 ACTGCAGAGAACAAAACCTGCAGGAAACGAAGATAAATCtgaacaacagccgttgtcc  
 oGIL324 Scer\_STE12\_URA3\_extR1 GTGAGTTTAGTATACATGCATTACTTATAATACAGTTTTGATTGTTACATTATTACC  
 oGIL325 Spar\_STE12\_URA3\_extF1 ACTGCAGAGAACAAAACCTGCAGGAAACGAAGATAAATCacgagaattcttttcggg  
 oGIL326 Spar\_STE12\_URA3\_extR1 GTGAGTTTAGTATACATGCATTACTTATAATACAGTTTTAGGAGTCACATATAAAGG  
 oGIL327 Sbay\_STE12\_URA3\_extF1 ACTGCAGAGAACAAAACCTGCAGGAAACGAAGATAAATCtccaagatgaacgagcacc  
 oGIL328 Sbay\_STE12\_URA3\_extR1 GTGAGTTTAGTATACATGCATTACTTATAATACAGTTTTGTTGTTATTACATACC  
 oGIL329 Agos\_STE12\_URA3\_extF1 ACTGCAGAGAACAAAACCTGCAGGAAACGAAGATAAATCtGCCATCTCGCTACTACGG  
 oGIL330 Agos\_STE12\_URA3\_extR1 GTGAGTTTAGTATACATGCATTACTTATAATACAGTTTTACATCTCGAAAGTTTACTGG  
 oGIL331 STE12\_extF1 ACATAGTACCCTAGCTGCC  
 oGIL332 STE12\_extR1 CGATCATGTAGTTTTGGAGG  
 oGIL333 Spar\_GAL1mCherry\_intF1 TCGTCTTAAACCAGCTTTGGCGCTGCTTATTGAATTAATGGTGAAGCAAGGCCGAGG  
 oGIL334 Spar\_GAL1mCherry\_extR1 AAAGAATGAGAGCTGCTCGTAAATACTAAAAAATACTAATACGACTCACTATAGGG  
 oGIL335 Smik\_GAL1mCherry\_intF1 TCGTTCTAAACCAGCTTTGGCGGTTGTTTTGAATTAATGGTGAAGCAAGGCCGAGG  
 oGIL336 Smik\_GAL1mCherry\_extR1 ATAATAAGAAACCGTTTCGAGTATTTAATAGAAATGAACAAATACGACTCACTATAGGG  
 oGIL337 Sbay\_GAL1mCherry\_intF1 TCGTCTTAAACCAGCTTTGGCGGTTGTTGTATGAATTAATGGTGAAGCAAGGCCGAGG  
 oGIL338 Sbay\_GAL1mCherry\_extR1 AAGAATAGAAATATATTTGAGCAATACTAGCAGAACTAATACGACTCACTATAGGG  
 oGIL339 GEV\_SboyCAN1\_extF TCAAGTCAAAAATTTTACATACAACATACATAGTCCCGCTCTACCTGCGAGACC  
 oGIL340 GEV\_SboyCAN1\_extR ACGTGACCTTTATTACTTTGATCACATTTCCAACCAATCCACCAGTACTCGTCAATTC  
 oGIL341 SbayCAN1\_extF CTGGGAACGATTTCCATCC  
 oGIL342 GEV\_intR GCTGGAGATGCTGGAGCCCAACC  
 oGIL343 Sbay\_STE12\_URA3\_extF2 ACTGCAGAGAACAAAACCTGCAGGAAACGAAGATAAATCctaatcttcttccggcggg  
 oGIL344 Sbay\_STE12\_URA3\_extR2 GTGAGTTTAGTATACATGCATTACTTATAATACAGTTTTGAAGTCATATCTTTGGTGG  
 oGIL345 Scer\_STE12\_intF1 TGGAGCTCAITCACTTGAGG  
 oGIL346 Spar\_STE12\_intF1 CCTGAAGTAGAACAATGG  
 oGIL347 Sbay\_STE12\_intF1 CTTAGTAATTCAGCCGAGG  
 oGIL348 Agos\_STE12\_extF1 AAAATACCGGAAATGAGG  
 oGIL349 STE12\_URA3Forward TTACCCAGAATACCCTAAGGCGAGAGCAAGAAGATTGATCCCCGGTTAATTAAGG  
 oGIL350 STE12\_URA3Reverse GGGTATTGATTATATTTGAGAAATAAATGTCTAGGAGTAATACGACTCACTATAGGG  
 oGIL351 STE12\_EvoForward ACAAAATCAGATAATGCC  
 oGIL352 STE12\_EvoReverse TGAGCAGAACTTCGTGACC  
 oGIL353 EL01\_URA3Forward TCTTGGCTTACCCGCTCGCTTACGGATTAGTAACCGGATCCCCGGTTAATTAAGG  
 oGIL354 EL01\_URA3Reverse GCTAATAAATATATGTTTTGCTCGCGCGCAGACTTCTAATACGACTCACTATAGGG  
 oGIL355 EL01\_EvoForward AACACAACAATCGCAAGCC  
 oGIL356 EL01\_EvoReverse GGTGTGACACTAGAATGCC  
 oGIL357 GAS1\_URA3Forward TGGTTGTTTCTCGAACAAATAGATATCCATAAATAGTATCCCCGGTTAATTAAGG  
 oGIL358 GAS1\_URA3Reverse ATTTGTTAGTCTTCTCGAAGTACATGTATACGATACCCTAATACGACTCACTATAGGG  
 oGIL359 Gas1Evo\_Forward TTTTCTGGCCCAAACGTGG  
 oGIL360 Gas1Evo\_Reverse GAACACAAGCTCCGTTTGG  
 oGIL361 URA3MX\_intR1 GGCAAGCTAAACAGATCTGG  
 oGIL362 ste12evo\_check\_forward GCAATACAAAATCAACTTGG  
 oGIL363 ste12evo\_check\_reverse CAGGTGCACTTGGAAAG  
 oGIL364 gas1evo\_check\_forward AAATATCACAACCTCCGCC  
 oGIL365 gas1evo\_check\_reverse GAGTAAGCACCACTACTACC  
 oGIL366 elo1evo\_check\_forward GAAAAGTATTATACATGTTGG  
 oGIL367 elo1evo\_check\_reverse TGAACCTCAGGACTGCAAGC  
 oGIL368 GAS1\_allele\_swap\_FOR

oGIL369 GAS1\_allele\_swap\_REV  
oGIL370 GAS1\_allele\_check\_3\_FOR  
oGIL371 GAS1Evo\_New\_Check\_FOR GCAGTCTATCAGCATAACC  
oGIL372 ELO1Evo\_New\_Check\_FOR GGCTATTGCTGCTGGTGACG  
oGIL373 STE12Evo\_New\_Check\_FOR GGAACACGCTGTTTCACCT  
oGIL374 pCORE\_STE12\_URA3Forward TTACCCAAGAATACCGCTAAGGGCAGAGACGAAGAAGATTGAGCTCGTTTTCGACTGG  
oGIL375 pCORE\_STE12\_URA3Reverse GGGTATTGATTATATTTGAGAATAAAATGCTAGGAGTCTTACCATTAAAGTTGATC  
oGIL376 pCORE\_ELO1\_URA3Forward TCTTGGCTTACCCGCTCGGCTTTACGGATTAGTAAACCGGAGCTCGTTTTCGACTGG  
oGIL377 pCORE\_ELO1\_URA3Reverse GCTAATAAATTATATGTTTTGCTCTGGGCGGACATTCTCTTACCATTAAAGTTGATC  
oGIL378 pCORE\_GAS1\_URA3Forward TGGTGTGTTCTCGAACAATTAGATATCCATAAATAGTGAAGCTCGTTTTCGACTGG  
oGIL379 pCORE\_GAS1\_URA3Reverse ATTTGTTAGTCTCTCGAAGTACATGTATACGATACCACCTCTTACCATTAAAGTTGATC  
oGIL380 PH087\_extF1 GGTTAAGATTGTCATAGG  
oGIL381 PH087\_extR1 GTTACTCAATTGTATCAAGG  
oGIL382 STE12\_WT\_Forward AATCTCACAACTCTGGCCAG  
oGIL383 STE12\_Mutant\_Forward AAATCTCACAACTCTGCCAA  
oGIL384 STE12\_WT\_Reverse ATTGGTGTGTTTAGTTTGC  
oGIL385 STE12\_Mutant\_Reverse ATTGGTGTGTTTAGTTTGT  
oGIL386 GAS1\_WT\_Forward AAGAAGTACAGAAAAATTC  
oGIL387 GAS1\_Mutant\_Forward AAGAAGTACAGAAAAATTC  
oGIL388 GAS1\_WT\_Reverse ATTGGAAGAGTAGCCAAGT  
oGIL389 GAS1\_Mutant\_Reverse ATTGGAAGAGTAGCCAAGT  
oGIL390 ELO1\_WT\_Forward TGCTACAGCTTACTGTGCT  
oGIL391 ELO1\_Mutant\_Forward TGCTACAGCTTACTGTGCT  
oGIL392 ELO1\_WT\_Reverse TAACCAACCAATTGATTATA  
oGIL393 ELO1\_Mutant\_Reverse TAACCAACCAATTGATTATA  
oGIL394 ERG1upstream\_WT\_Forward TTCTTCTAGCTTCTAATTT  
oGIL395 ERG1upstream\_Mutant\_Forward TTCTTCTAGCTTCTAATTT  
oGIL396 ERG1\_Reverse TACCATCTTGACCAAGTCC  
For oligos 396-420, I designed initially for HiSeq analysis, but was informed that the design was nonoptimal. It is likely that these oligos will not be used.  
oGIL397 STE12\_F\_BarA GTATAGGGCCAAATGAAACTGTACA  
oGIL398 STE12\_F\_BarC TAAATTGGCCAAATGAAACTGTACA  
oGIL399 STE12\_F\_BarE CGTTCGGCCAAATGAAACTGTACA  
oGIL400 STE12\_R\_BarB ACGGCTGCTGGAAGTTGTTAGAATAT  
oGIL401 STE12\_R\_BarD ACTCGAGCTGGAAGTTGTTAGAATAT  
oGIL402 STE12\_R\_BarF GACCGCTGGAAGTTGTTAGAATAT  
oGIL403 GAS1\_F\_BarA GTATAGGACGTCAGACAATACATCAG  
oGIL404 GAS1\_F\_BarC TAAATTGACGTCAGACAATACATCAG  
oGIL405 GAS1\_F\_BarE CGTTCGGACGTCAGACAATACATCAG  
oGIL406 GAS1\_R\_BarB ACGGCTCTTAACCTGGTATCTTCGT  
oGIL407 GAS1\_R\_BarD ACTCGACTTAACTGGTATCTTCGT  
oGIL408 GAS1\_R\_BarF GACCGCTTAACTGGTATCTTCGT  
oGIL409 ELO1\_F\_BarA GTATAGTTTCTACATACATCACCATC  
oGIL410 ELO1\_F\_BarC TAAATTTTCTACATACATCACCATC  
oGIL411 ELO1\_F\_BarE CGTTCGTTTCTACATACATCACCATC  
oGIL412 ELO1\_R\_BarB ACGGCTACAGGAACCATGTAAGTGC  
oGIL413 ELO1\_R\_BarD ACTCGAACAGGAACCATGTAAGTGC  
oGIL414 ELO1\_R\_BarF GACCGACAGGAACCATGTAAGTGC  
oGIL415 ERG1\_F\_BarA GTATAGTTGTTGCTTTTCTTTTCC  
oGIL416 ERG1\_F\_BarC TAAATTTGTTGCTTTTCTTTTCC  
oGIL417 ERG1\_F\_BarE CGTTCGTTGTTGCTTTTCTTTTCC  
oGIL418 ERG1\_R\_BarB ACGGCTATATATATAATTTCAAT  
oGIL419 ERG1\_R\_BarD ACTCGAATATATATAATTTCAAT  
oGIL420 ERG1\_R\_BarF GACCGCATATATATAATTTCAAT  
oGIL421 Universal\_forward AATGATACGGGACACCGAGATCTACACTCTTCCCTACAGGCTCTCCGATCT  
oGIL422 GAS1\_forward\_1 ACACGACGCTCTCCGATCTGACGTCAGACAATACATCAG  
oGIL423 ELO1\_forward\_1 ACACGACGCTCTCCGATCTTCTCCTACATACATCACCATC  
oGIL424 STE12\_forward\_1 ACACGACGCTCTCCGATCTGGCCAAATGAAACTGTACA  
oGIL425 ERG1\_forward\_1 ACACGACGCTCTCCGATCTTTGTTGCTTTTCTTTTCC  
oGIL426 GAS1\_forward\_2 ACACGACGCTCTCCGATCTGTGACACAATACATCAGCGA  
oGIL427 ELO1\_forward\_2 ACACGACGCTCTCCGATCTCCTACATACATCACCATCAG  
oGIL428 STE12\_forward\_2 ACACGACGCTCTCCGATCTCAAAATGAAACTGTACAAT



oGIL429 ERG1\_forward\_2 ACACGACGCTCTCCGATCTTTTCTTTCTTTCTTTCTTA  
 oGIL430 Sample\_Index01 GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGCTCTCTG  
 oGIL431 Sample\_Index02 GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCTCTCGTATGCCGCTCTCTG  
 oGIL432 Sample\_Index03 GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTAGGCATCTCGTATGCCGCTCTCTG  
 oGIL433 Sample\_Index04 GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAATCTCGTATGCCGCTCTCTG  
 oGIL434 Sample\_Index05 GATCGGAAGAGCACACGTCTGAACTCCAGTCACACAGTATCTCGTATGCCGCTCTCTG  
 oGIL435 Sample\_Index06 GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGCTCTCTG  
 oGIL436 Sample\_Index07 GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGATCATCTCGTATGCCGCTCTCTG  
 oGIL437 Sample\_Index08 GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGCTCTCTG  
 oGIL438 Sample\_Index09 GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGATCATCTCGTATGCCGCTCTCTG  
 oGIL439 Sample\_Index10 GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGCTTATCTCGTATGCCGCTCTCTG  
 oGIL440 Sample\_Index11 GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGCTCTCTG  
 oGIL441 Sample\_Index12 GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGAATCTCGTATGCCGCTCTCTG  
 oGIL442 GAS1\_reverse ATCTCGTATGCCGCTCTCTGCTTAACTCTGGTATCTCTG  
 oGIL443 EL01\_reverse ATCTCGTATGCCGCTCTCTGCTGACAGAACCCATGTAATCG  
 oGIL444 STE12\_reverse ATCTCGTATGCCGCTCTCTGCTGGCGAAGTGTGAGAATAT  
 oGIL445 ERG1\_reverse ATCTCGTATGCCGCTCTCTGCTGATATATATAATTTTCAAT  
  
 oGIL446 URA3\_MATalpha\_Forward AATTAATTCATGTTTAGTACTGAAAATTAAGAATACTTATCCCCGGTTAATTAAGG  
 With primer oGIL447, amplifies CalURA3 off of pAG60 and targets it between BUD5 and PH087, tightly linked to the MAT locus.  
 oGIL447 URA3\_MATalpha\_Reverse CTGGTTCTTATCAAAAATATATCTACTGTAGTTAGCTAATACGACTCACTATAGGG  
 With primer oGIL446, amplifies CalURA3 off of pAG60 and targets it between BUD5 and PH087, tightly linked to the MAT locus.  
 oGIL448 GAS1\_BYS1D06\_wt\_F AAACCTTATCTATTCCTGTTTTTC  
 oGIL449 GAS1\_BYS1D06\_mut\_F AAACCTTATCTATTCCTGTTTTTA  
 oGIL450 STE5\_BYS1D06\_wt\_F GGAAGAATTGCAGGATTGGA  
 oGIL451 STE5\_BYS1D06\_mut\_F GGAAGAATTGCAGGATTGGT  
 oGIL452 GAS1\_BYS1D06\_wt\_SNP /SCY3/TATCTATTCTGTTTTCTTCTCGAATACGGTT  
 oGIL453 GAS1\_BYS1D06\_mut\_SNP /SCY5/TATCTATTCTGTTTTATTCTCTGAATACGGTT  
 oGIL454 STE5\_BYS1D06\_wt\_SNP /SCY3/GCAGGATTGGGAATAGACGGG  
 oGIL455 STE5\_BYS1D06\_mut\_SNP /SCY5/GCAGGATTGGGAATAGACGGG  
 oGIL456 BYS1-D06-SNP02-WT ATGGTTTGATCTTCGCTACC  
 oGIL457 BYS1-D06-SNP02-Mut ATGGTTTGATCTTCGCTACA  
 oGIL458 BYS1-D06-SNP02-Rev ATGGTTTTTTGGAGACTCT  
 oGIL459 BYS1-D06-SNP03-WT AGATCTATGAGCGGCATAAC  
 oGIL460 BYS1-D06-SNP03-Mut AGATCTATGAGCGGCATAAA  
 oGIL461 BYS1-D06-SNP03-Rev CTAACATCTCCAGTAGTG  
 oGIL462 BYS1-D06-SNP04-WT GCTTTAAATCTCTGGAGTAT  
 oGIL463 BYS1-D06-SNP04-Mut GCTTTAAATCTCTGGAGTAG  
 oGIL464 BYS1-D06-SNP04-Rev ATATCAGGTCAGTTAAGAGA  
 oGIL465 BYS1-D06-SNP05-WT AAGTAGTGGTCACTCTTTTCG  
 oGIL466 BYS1-D06-SNP05-Mut AAGTAGTGGTCACTCTTTCT  
 oGIL467 BYS1-D06-SNP05-Rev CATGTTTATAAAGCATTAGC  
 oGIL468 BYS1-D06-SNP06-WT GAATATATTATTAATGATTGCC  
 oGIL469 BYS1-D06-SNP06-Mut GAATATATTATTAATGATTGCT  
 oGIL470 BYS1-D06-SNP06-Rev ATATAACAAGATTAGGCTA  
 oGIL471 BYS1-D06-SNP07-WT AATTGCAACATTGCTGAAAATG  
 oGIL472 BYS1-D06-SNP07-Mut AATTGCAACATTGCTAGAAAATA  
 oGIL473 BYS1-D06-SNP07-Rev CTGTTGATGACTGCGTGTAC  
 oGIL474 BYS1-D06-SNP08-WT GGGTCATCTCTAGGATAAC  
 oGIL475 BYS1-D06-SNP08-Mut GGGTCATCTCTAGGATAAT  
 oGIL476 BYS1-D06-SNP08-Rev CCGGCTTTTTATTGCCATCA  
 oGIL477 BYS1-D06-SNP09-WT GGGCTTTGTCGCGTCCAGA  
 oGIL478 BYS1-D06-SNP09-Mut GGGCTTTGTCGCGTCCAGG  
 oGIL479 BYS1-D06-SNP09-Rev TGTTTACTAAGACTCTTATT  
 oGIL480 BYS1-D06-SNP10-WT GCGCTACCATTGCCCAAC  
 oGIL481 BYS1-D06-SNP10-Mut GCGCTACCATTGCCCAAA  
 oGIL482 BYS1-D06-SNP10-Rev TTGGAAATGATCGACTATGA  
 oGIL483 BYS1-D06-SNP12-WT ACAAGTAATCTTTTCTTTCTGG  
 oGIL484 BYS1-D06-SNP12-Mut ACAAGTAATCTTTTCTTTCTGA  
 oGIL485 BYS1-D06-SNP12-Rev GTGCTTCATTAAAGTCAAGGT