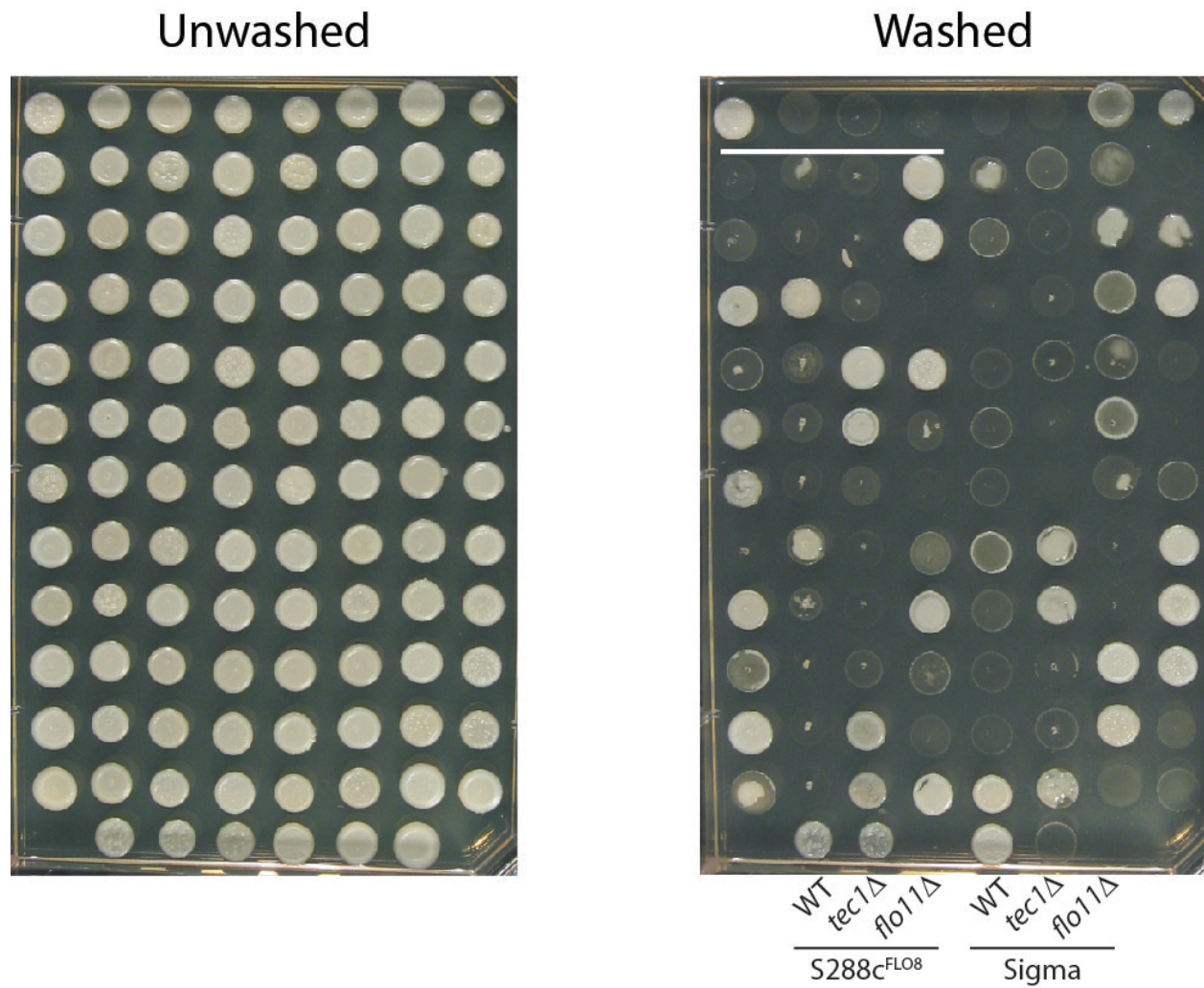
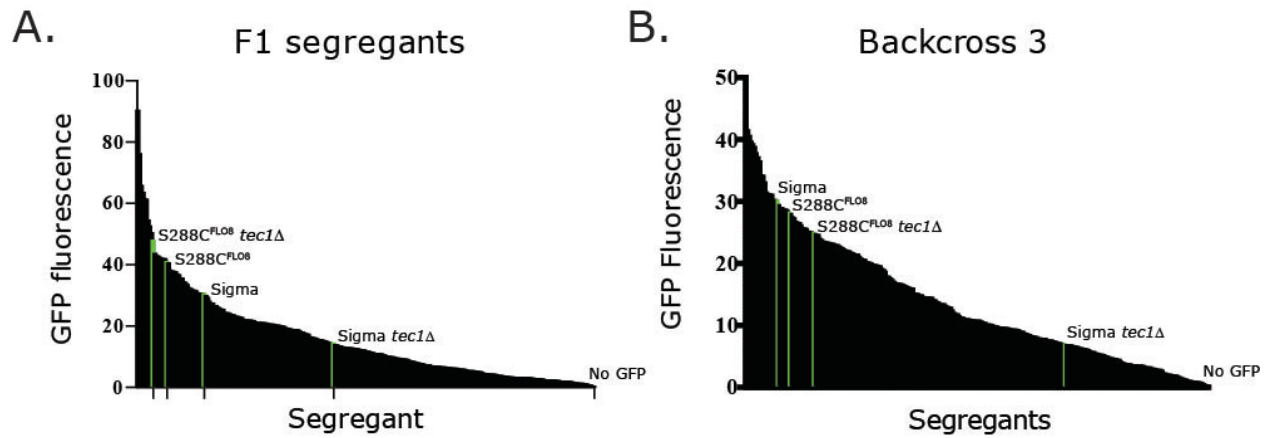


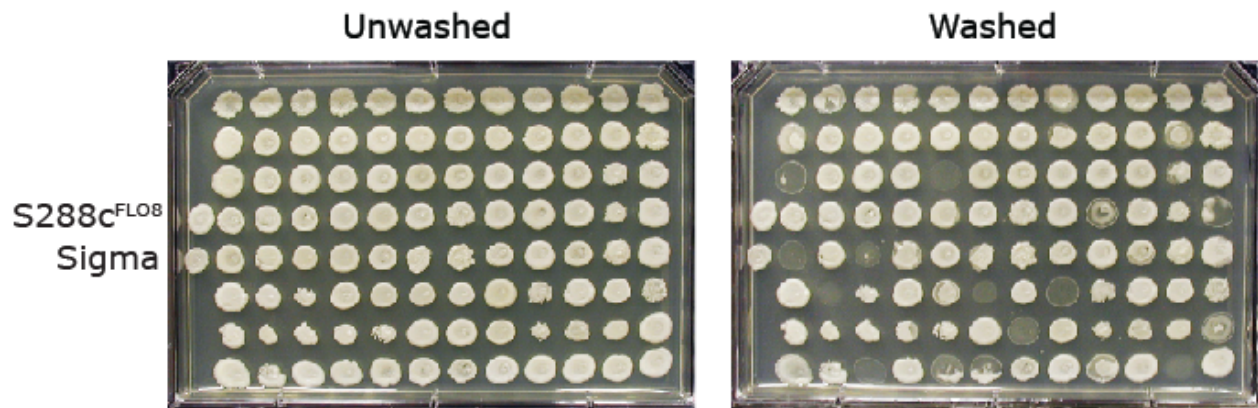
**Figure S1** S288c with *FLO11pr<sup>Sigma</sup>::FLO11* is still fMAPK independent. qPCR assay of *FLO11* transcript levels was performed on (A) S288c and (B) Sigma strains carrying *FLO11* promoter swaps. Mean *FLO11* levels normalized to *ACT1* levels are presented  $\pm$  SD. Strains with their endogenous *FLO11* promoter are labeled with their relevant genotype. Strains carrying a swapped *FLO11* promoter are labeled numerically: (1) S288c *FLO11pr<sup>Sigma</sup>::FLO11*; (2) S288c *FLO11pr<sup>Sigma</sup>::FLO11, tec1Δ*; (3) Sigma *FLO11pr<sup>Sigma</sup>::FLO11, tec1Δ*; (4) Sigma *FLO11pr<sup>S288c</sup>::FLO11, tec1Δ*.



**Figure S2** *tec1Δ* bypass is a complex trait. Agar adhesion assays of 24 tetrads from an S288c *tec1Δ* x Sigma *tec1Δ* cross. Two complete tetrads per row with one example underlined. Parental strains and controls spotted on the bottom of the plate. The same plate is shown before and after washing.

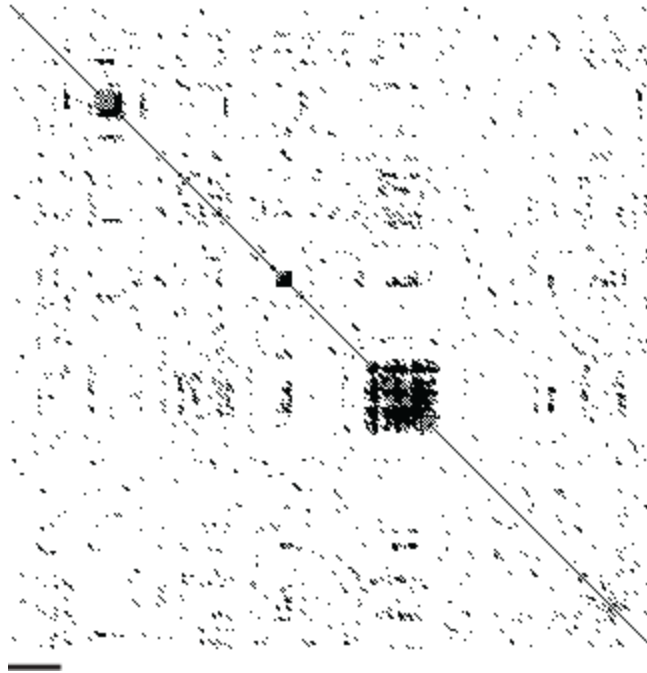


**Figure S3** fMAPK bypass of *FLO11* expression is a complex quantitative trait. GFP fluorescence, measured in arbitrary units for (A) 276 F1 meiotic progeny from a *S288c* / *Sigma FLO11pr::GFP* / *FLO11pr::GFP tec1Δ* / *tec1Δ* diploid or (B) 276 meiotic progeny from the third generation of backcrossing (see methods). The average GFP fluorescence normalized to OD600 of 3 biological replicates are plotted. The progeny are sorted from highest to lowest fluorescence. Fluorescence of control strains are labeled and shown in green.



**Figure S4** Regulation of adhesion differs between S288c and Sigma. Adherent, wild-type S288c and Sigma were crossed and from 24 complete tetrads, 15/96 progeny show an adhesion defect. Each column contains two complete tetrads.

# *RPI1*



**Figure S5** *RPI1* contains intragenic repeats. Dot plot analysis of the S288c allele of *RPI1* nucleotide sequence compared against itself. Repeat regions produce a characteristic box pattern. The horizontal bar represents 100 nt. The plot was generated using <http://www.vivo.colostate.edu/molkit/dnadot/> with a window size of 9 and a mismatch limit of 2.

A

Repeat #1

```

S288c TCCAGTTCAAATTCGAAATTCGAACTCCAATTCTAATTCGAACTCCAAC
w303 TCCAGTTCAAATTCGAAATTCGAACTCCAATTCTAATTCGAACTCCAAC
SK1 TCCAGTTCAAATTCGAAATTCGAACTCCAATTCTAATTCGAACTCCAAC
NCYC110 TCCAGTTCAAATTCGAAATTCGAACTCCAATTCTAATTCGAACTCCAAC
YJM789 TCCAGTTCAAATTCGAAATTCGAACTCCAATTCTAATTCGAACTCCAAC
RM11 TCCAGTTCTAATTCTAATTCGAACTCCAAC-----
y55 TCCAGTTCTAATTCTAATTCGAACTCCAAC-----
Sigma TCCAGTTCTAATTCTAATTCGAACTCCAAC-----
      S S S N S N S N S N S N S N S N S N

```

B

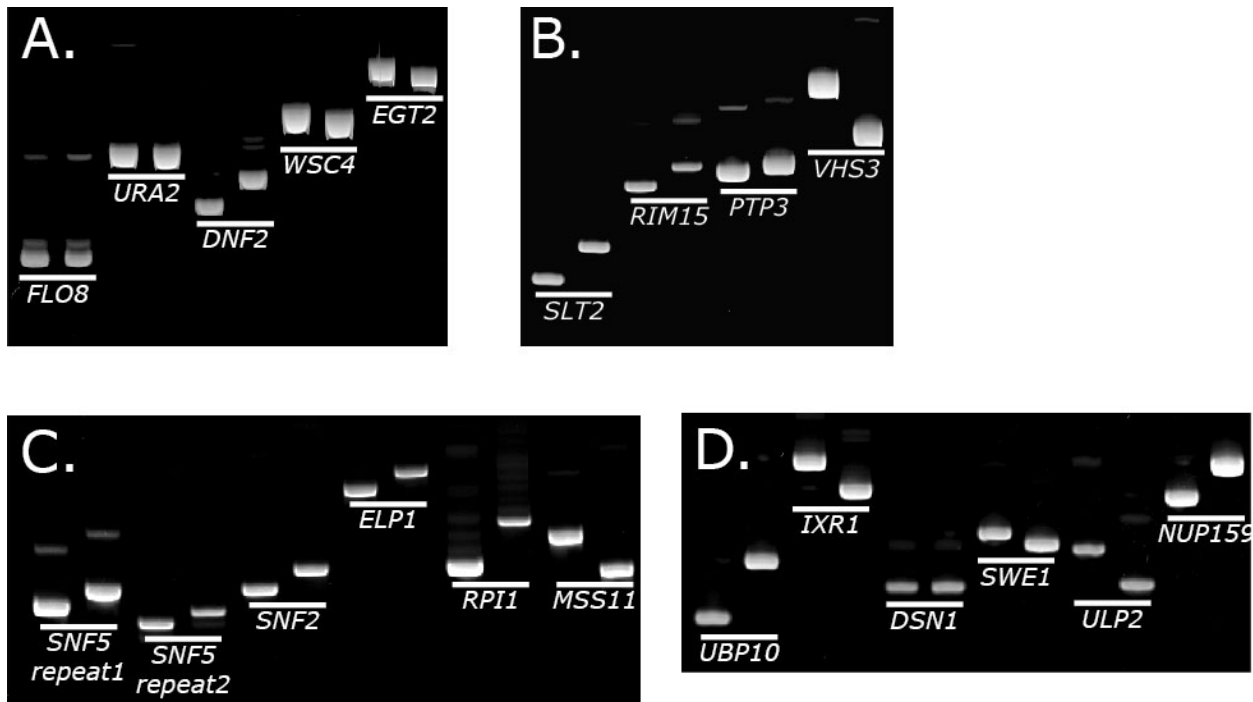
Repeat #2

```

S288c AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATTGTAACAATAACAATAATAATTTAA-----CAATAGTAACAATAGCAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
w303 AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATTGTAACAATAACAATAATAATTTAA-----CAATAGTAACAATAGCAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
SK1 AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATAGTAACAATAACAATAATAATTTAA-----CAATAGTAACAATAGCAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
NCYC110 AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATAGTAACAATAACAATAATAATTTAA-----CAATAGTAACAATAGCAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
YJM789 AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATAGTAACAATAACAATAATAATTTAA-----CAATAGTAACAATAGCAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
RM11 AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATAGTAACAATAACAATAATAATTATAACAATAAGTAA-----CAATAATAATAATAGTAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
y55 AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATAGTAACAATAACAATAATAATTATAACAATAAGTAA-----CAATAATAATAATAGTAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
Sigma AACAGAATGGTACTAATGATAATATTAATAACCATTATTATAATAATAGTAACAATAACAATAATAATTATAACAATAAGTAA-----CAATAATAATAATAGTAACAATAATAATAGCAATAATAATTAATAGGAATAGTAACTATAGTACTAAT
      N K N G T N D N I N N H Y Y N N S N N N N N N N N N N S N N N N N S N N N N S N N N N S N N N N S N N I N R N S N H S T N

```

**Figure S6** Comparison of *RPI1* repeat regions between different *S. cerevisiae* strains. The sequences for the repeat regions from *RPI1* were aligned using ClustalW. (A) 5' repeat region and (B) central repeat region. For repeat #1 the translation for the S288c sequence is shown, and for repeat #2 the translation for the Sigma sequence is shown. Strain names in blue are wild isolates and nucleotides in red represent nucleotide polymorphisms. In S288c, the repeats account for 16% of the coding sequence (195/1224 bases). The 5' repeat region consists of a hexanucleotide repeat. In S288c there are nine repeated units while in Sigma there are only six repeated units. The central repeat region consists of a trinucleotide repeat. In S288c there are 46 repeated units but in Sigma they have expanded to 63 repeated units. Both repeats encode primarily for serines and asparagines.



**Figure S7** Many genes have intragenic tandem repeats that differ in size between S288c and Sigma. Four of five gels used to examine the length differences between S288c and Sigma for 24 genes and *FLO8* which was used as a control for a gene without repeats. 22/24 genes had the predicted repeat length differences. The gene *SNF5* has two repeat regions that both changed in size. For each pair the left sample is S288c and the right sample is Sigma.

**Table S1 Deletions leading to an Ahs- phenotype only in S288c.**

YAL054C	YIR020C	YOR082C	YBR231C
YNL020C	YJL218W	YOR154W	YBR289W
YOR043W	YJR018W	YOR183W	YDR073W
YDR226W	YJR054W	YOR186W	YDR334W
YBL080C	YJR080C	YOR200W	YJL176C
YKR039W	YKL023W	YOR225W	YOR290C
YBR068C	YKL044W	YOR258W	YOL012C
YDR127W	YKL090W	YOR285W	YDL074C
YPR060C	YKL094W	YPL017C	YDR469W
YPR020W	YLL030C	YPL068C	YDR207C
YLR431C	YLL055W	YPL182C	YBR107C
YCR002C	YLR021W	YPL184C	YDR254W
YAR030C	YLR065C	YPL216W	YDR318W
YBL031W	YLR125W	YPL220W	YGR275W
YBL046W	YLR168C	YPL246C	YPR046W
YBR033W	YLR184W	YPL257W	YER068W
YBR139W	YLR352W	YPL260W	YAL012W
YCL005W	YLR358C	YPR170C	YER056C
YCL036W	YLR374C	YER086W	YMR032W
YCR016W	YLR434C	YDR200C	YNL166C
YCR095C	YML010C-B	YCL058C	YNL229C
YDL021W	YML010W-A	YBL006C	YLR420W
YDL073W	YMR135W-A	YPR030W	YML106W
YDR003W	YMR158C-B	YER083C	YJL115W
YDR248C	YMR191W	YCR017C	YOL090W
YDR514C	YMR316C-A	YGL027C	YLR418C
YER039C	YMR326C	YHR181W	YBR228W
YER048C	YNL023C	YDL225W	YGL058W
YER060W	YNL170W	YBR200W	YML021C
YFL015C	YNL175C	YHL003C	YOR144C
YGL214W	YNL226W	YLL026W	YDR364C
YGR071C	YNR025C	YJR060W	YCL061C
YHL017W	YOL032W	YDR176W	YMR048W
YHR080C	YOL042W	YGL066W	YBL082C
YHR210C	YOL048C	YLR055C	YKL213C
YIL059C	YOL159C	YNL107W	YDR069C
YIL086C	YOR021C	YDR485C	YDR320C
YIR014W	YOR029W	YML041C	YNR006W



YJL095W
YKR054C
YBR159W
YBR171W
YGR135W
YFL011W
YHR094C
YBR133C
YOR178C
YNL117W
YLR330W
YJL062W
YDL035C
YOR101W
YKR029C
YOL064C
YGL045W
YHL007C
YOL101C
YKR042W
YOL091W
YDL115C
YLR219W
YML128C
YMR167W
YMR031W-A
YJR051W
YLR180W
YGR163W
YAL047C
YPL241C
YLR368W
YDR258C
YNL076W
YCL016C
YDR378C
YKL009W
YMR125W
YBR034C

YDR432W
YDR195W
YGR019W
YPR101W
YJR117W
YPR049C
YOL044W
YGR004W
YNL173C
YER053C
YFL031W
YAL013W
YDR174W
YNR052C
YKL043W
YJL129C
YDL230W
YJL183W
YKL139W
YIL148W
YGL236C
YCL037C
YDR500C
YHL033C
YKL167C
YLR185W
YNL265C
YOR096W
YOR182C
YPL090C
YOR138C
YHR034C
YOR288C
YMR091C
YER110C
YGL153W
YIR004W
YLR024C
YGL203C

YPR087W
YER020W
YML035C
YBR221C
YIL119C
YKL109W
YAL024C
YER059W
YPL219W
YMR179W
YML014W
YOL105C
YOR008C
YGL244W
YHR087W
YNR060W
YBL075C
YGR055W
YGL033W
YLR453C
YGR104C
YHR041C
YPL144W
YPL258C
YNL248C
YJL189W
YGR054W
YNL125C
YOR081C
YPL212C
YDR354W
YKL211C
YCL075W
YDR330W
YHL016C
YPR036W
YLR373C
YMR174C
YHL019C

YBR053C
---------

**Table S2 Deletions leading to an Ahs- phenotype only in Sigma.**

YKR024C	YGR162W	YPL031C	YIR021W
YHR114W	YAL048C	YDL044C	YER161C
YML022W	YPL259C	YBR191W	YGR123C
YLR278C	YLR370C	YGR105W	YDL069C
YGL258W	YNL271C	YKL119C	YDR197W
YGR271C-A	YMR267W	YOR085W	YML024W
YML117W	YDR079W	YNR051C	YBR165W
YOR267C	YDR529C	YEL059C-A	YER154W
YMR044W	YPL132W	YPL086C	YLR384C
YOR213C	YLR204W	YPL024W	YDR074W
YMR127C	YLR315W	YIL008W	YHL034C
YCR009C	YER156C	YFR019W	YDR096W
YCR088W	YLR375W	YPL193W	YDL081C
YIL034C	YFR048W	YJL124C	YOL023W
YMR008C	YGL188C-A	YPR040W	YIL125W
YGR040W	YGL211W	YDR512C	YDR120C
YGL014W	YGL228W	YNL098C	YGR020C
YDR005C	YKL037W	YOL051W	YOR332W
YNL053W	YOR141C	YDR289C	YFL054C
YOR002W	YKL110C	YGR257C	YGR272C
YOR067C	YDR276C	YLL041C	YBR026C
YDL159W	YBL007C	YNL037C	YHR011W
YGL019W	YBR245C	YOR136W	YCR105W
YGR188C	YGR062C	YEL051W	YPR116W
YLR362W	YLR337C	YKL080W	YCR079W
YHR021C	YLR056W	YDL067C	YER014C-A
YPR043W	YGR014W	YLR295C	YLR390W-A
YBR189W	YGR037C	YBL099W	YGR229C
YGR232W	YHL038C	YDR298C	YDR359C
YER118C	YGL252C	YBL066C	YLR385C
YMR312W	YAL002W	YBR162C	YOL068C
YPL101W	YOR334W	YLR404W	YMR263W
YKL143W	YOL115W	YNL097C	YCR077C
YDR184C	YGL003C	YGR180C	YHR120W
YDL190C	YPL005W	YCR086W	YER061C
YEL060C	YDR140W	YDR129C	YHR067W
YDL005C	YAL023C	YML008C	YBL071W-A
YGL025C	YDR477W	YGL084C	YER014W

YEL065W
YOR198C
YPL055C
YDR393W
YHL020C
YGL246C
YER117W
YDL191W
YGL129C
YMR158W
YPL104W
YPR166C
YDR175C
YPL040C
YPL118W
YLR192C
YJL180C
YER017C
YMR089C
YNL121C
YPL148C
YILO49W
YNL119W
YHR084W
YHR111W
YIR019C
YFL026W
YNL180C
YDR194C
YKL149C
YKL194C
YPR163C
YBR127C
YMR293C
YKL055C
YOR221C
YPL271W
YDR332W
YOR305W

YBR163W
YER087W
YGL107C
YGR102C
YMR066W
YMR098C
YOR205C
YLR443W
YILO84C
YOR330C
YLR382C
YKL134C
YNL073W
YGR171C
YCR028C-A
YDR296W
YOL095C
YGL219C
YNL213C
YGR101W
YLL006W
YOL009C
YOR211C
YML062C
YLR435W
YDL090C
YBR146W
YBL038W
YBR251W
YBR268W
YBR282W
YCR003W
YCR024C
YCR046C
YCR071C
YDL045W-A
YDR237W
YDR322W
YDR347W

YDR405W
YER050C
YGR215W
YHR147C
YHR168W
YILO93C
YKL003C
YKL138C
YKL155C
YKL170W
YKR006C
YLR312W-A
YLR439W
YMR024W
YMR193W
YNL005C
YNL081C
YNL252C
YPL173W
YPR047W
YBL090W
YDR115W
YDR337W
YEL050C
YGL143C
YGR165W
YGR220C
YHR091C
YJL063C
YKR085C
YLR139C
YMR097C
YNL177C
YOR150W
YPR100W
YPL002C
YBL022C
YBR083W
YGL064C

YMR287C
YPL029W
YML055W
YLL033W
YMR228W
YJL102W
YLR069C
YOR187W
YDR470C
YDR268W
YPL097W
YPL019C
YGR219W
YAL004W

**Table S3** Deletions leading to an Ahs- phenotype only in both S288c and Sigma.

YKL007W
YBR023C
YPL203W
YBL058W
YGR056W
YOL001W
YOL072W
YLR357W
YOL076W
YPL181W
YDR350C
YMR154C

YKR001C
YKL185W
YNL183C
YDR392W
YOR035C
YJL140W
YHR167W
YKL204W
YJR113C
YCL008C
YJR102C
YOL004W

YDR065W
YMR116C
YDL233W
YEL007W
YGR122W
YBR095C
YOR275C
YOR030W
YLR025W
YMR077C
YCR084C
YDL006W

YDR462W
YNR037C
YLR417W
YMR164C
YGR200C
YGR063C
YMR063W
YHL027W
YNL294C
YJL175W

**Table S4 ORFs with intragenic repeat length differences between S288c and Sigma.**

YAL035W	YOR156C	YJL162C
YAL064W-B	YOR290C	YKL028W
YBL011W	YPL049C	YKL032C
YBR017C	YPL229W	YKL105C
YBR030W	YPR142C	YKR092C
YBR212W	YPR143W	YKR102W
YCR067C	YPR152C	YLL010C
YDL005C	YAL065C	YLR055C
YDL035C	YAR050W	YLR106C
YDL122W	YBR289W	YLR114C
YDR133C	YCL043C	YLR177W
YDR134C	YDL037C	YLR406C-A
YDR232W	YDL039C	YML049C
YDR273W	YDL058W	YML113W
YDR299W	YDR093W	YMR016C
YEL007W	YDR150W	YMR044W
YFL024C	YDR420W	YMR124W
YFL033C	YDR517W	YMR173W
YGL013C	YER011W	YMR173W-A
YGL237C	YER030W	YMR317W
YGR014W	YER075C	YNL271C
YHL020C	YFL010C	YNL327W
YHR030C	YFL010W-A	YNR052C
YJL187C	YGL014W	YOR010C
YKL023W	YGR160W	YOR054C
YKL108W	YHL028W	YOR113W
YKL163W	YHR077C	YOR267C
YKR072C	YIL011W	YPL216W
YLL008W	YIL031W	YPR021C
YLR175W	YIL115C	YPR123C
YLR330W	YIL119C	YPR124W
YML074C	YIR010W	
YMR070W	YIR019C	
YMR136W	YIR023W	
YMR164C	YJL020C	
YNL186W	YJL078C	
YOL051W	YJL123C	
YOR053W	YJL130C	

**Table S5 List of strains used in this study**

Strain	Genotype	Source
BY4741	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo8-1	Brachmann et al. (1998)
yBC37	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 FLO8	this study
yBC06A10	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 FLO8 tec1Δ::KanMX4	this study
yBC06B5	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 FLO8 ste7Δ::KanMX4	this study
yBC06G7	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 FLO8 ste11Δ::KanMX4	this study
yBC07A3	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 FLO8 kss1Δ::KanMX4	this study
yBC06B5	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 FLO8 ste12Δ::KanMX4	this study
yBC0192	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo11pr <sup>S288c</sup> Δ::FLO11pr <sup>Sigma</sup> FLO8	this study
yBC0195	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo11pr <sup>S288c</sup> Δ::FLO11pr <sup>Sigma</sup> tec1Δ::KanMX4 FLO8	this study
yBC11E2	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo11Δ::GFP-URA3 FLO8	this study
yBC11H2	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo11Δ::GFP-URA3 tec1Δ::KanMX4 FLO8	this study
yBC16A3	S288c MATa ura3Δ0 FLO8	this study
yBC16F4	S288c MATa /α ura3Δ0/ura3Δ0 FLO8/FLO8	this study
yBC20A1	S288c MATa ura3Δ0 tec1Δ::hyg FLO8	this study
yBC20D1	S288c MATα ura3Δ0 tec1Δ::hyg FLO8	this study
yBC20A3	S288c MATa /α ura3Δ0/ura3Δ0 tec1Δ::hyg/tec1Δhyg FLO8/FLO8	this study
yBC11E8	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo11Δ::HIS3PEST FLO8	this study
yBC11H8	S288c MATa his3Δ1 leu2Δ0 ura3Δ0 met15Δ0 flo11Δ::HIS3PEST tec1Δ::KanMX4 FLO8	this study
yBC18A1	S288c MATa ura3Δ0 rpi1Δ::URA3 FLO8	this study
yBC18A6	S288c MATa ura3Δ0 rpi1Δ::RPI1 <sup>Sigma</sup> FLO8	this study
yBC18A8	S288c MATa ura3Δ0 rpi1Δ::RPI1 <sup>Sigma</sup> tecΔ1::KanMX4 FLO8	this study
yBC29A9	S288c MATa ura3Δ0 RPI1-3xFLAG-URA3 FLO8	this study
yBC29D9	S288c MATa ura3Δ0 rpi1Δ::RPI1 <sup>Sigma</sup> -3xFLAG-URA3 FLO8	this study
10560-6B	Sigma MATα his3::hisG leu2::hisG trp1::hisG ura3-52	Fink Collection
yBC0172	Sigma MATa his3::hisG leu2::hisG trp1::hisG ura3-52	this study
Sigma tec1Δ	MATa can1Δ::STE2pr-Sphis5 lyp1Δ::STE3pr-LEU2 his3::hisG leu2Δ ura3Δ tec1Δ::KanMX4	Dowell and Ryan et al. (2010)
Sigma ste7Δ	MATa can1Δ::STE2pr-Sphis5 lyp1Δ::STE3pr-LEU2 his3::hisG leu2Δ ura3Δ ste7Δ::KanMX4	Dowell and Ryan et al. (2010)
Sigma ste11Δ	MATa can1Δ::STE2pr-Sphis5 lyp1Δ::STE3pr-LEU2 his3::hisG leu2Δ ura3Δ ste11Δ::KanMX4	Dowell and Ryan et al. (2010)
Sigma kss1Δ	MATa can1Δ::STE2pr-Sphis5 lyp1Δ::STE3pr-LEU2 his3::hisG leu2Δ ura3Δ kss1Δ::KanMX4	Dowell and Ryan et al. (2010)

Sigma <i>ste12Δ</i>	<i>MATa can1Δ::STE2pr-Sphis5 lyp1Δ::STE3pr-LEU2 his3::hisG leu2Δ ura3Δ ste12Δ::KanMX4</i>	Dowell and Ryan et al. (2010)
yBC0193	Sigma <i>MATa his3::hisG leu2::hisG trp1::hisG ura3-52 flo11pr<sup>Sigma</sup>Δ::FLO11pr<sup>S288c</sup></i>	this study
yBC0196	Sigma <i>MATa his3::hisG leu2::hisG trp1::hisG ura3-52 flo11pr<sup>Sigma</sup>Δ::FLO11pr<sup>S288c</sup> tec1Δ::KanMX4</i>	this study
yBC11G1	Sigma <i>MATa his3::hisG leu2::hisG trp1::hisG ura3-52 flo11Δ::GFP-URA3</i>	this study
yBC11B2	Sigma <i>MATa his3::hisG leu2::hisG trp1::hisG ura3-52 flo11Δ::GFP-URA3 tec1Δ::KanMX4</i>	this study
yBC16H3	Sigma <i>MATa ura3-52</i>	this study
yBC16B4	Sigma <i>MATα ura3-52</i>	this study
yBC16G4	Sigma <i>MATa /α ura3-52/ura3-52</i>	this study
yBC20G1	Sigma <i>MATa ura3-52 tec1Δ::hyg</i>	this study
yBC20B2	Sigma <i>MATα ura3-52 tec1Δ::hyg</i>	this study
yBC20C3	Sigma <i>MATa /α ura3-52/ura3-52 tec1Δ::hyg/tec1Δhyg FLO8/FLO8</i>	this study
yBC11A7	Sigma <i>MATa his3::hisG leu2::hisG trp1::hisG ura3-52 flo11Δ::HIS3-PEST</i>	this study
yBC11D7	Sigma <i>MATa his3::hisG leu2::hisG trp1::hisG ura3-52 flo11Δ::HIS3-PEST tec1Δ::KanMX4</i>	this study
yBC18G1	Sigma <i>MATa ura3-52 rpi1Δ::URA3</i>	this study
yBC18G6	Sigma <i>MATa ura3-52 rpi1Δ::RPI1<sup>S288c</sup></i>	this study
yBC18G8	Sigma <i>MATa ura3-52 rpi1Δ::RPI1<sup>Sigma</sup> tec1Δ::KanMX4</i>	this study
yBC29G9	Sigma <i>MATa ura3-52 RPI1-3xFLAG-URA3</i>	this study
yBC29B10	Sigma <i>MATa ura3-52 rpi1Δ::RPI1<sup>Sigma</sup>-3xFLAG-URA3</i>	this study
yBC09H1	<i>S288c<sup>FLO8</sup>/Sigma MATa /α ura3Δ0/ura3-52 his3Δ0/his3::hisG leu2Δ0/leu2::hisG met15Δ0/MET15 TRP1/trp1::hisG tec1Δ::hyg/tec1Δ::hyg flo11Δ::GFP-URA3/flo11Δ::GFP-URA3</i>	this study
yBC03A10	<i>S288c<sup>FLO8</sup>/Sigma MATa /α ura3Δ0/ura3-52 his3Δ0/his3::hisG met15Δ0/MET15 tec1Δ::KanMX4/tec1Δ::KanMX</i>	this study

**Table S6 List of oligonucleotides used in this study**

Name	Sequence (5' to 3')	Description
BCP10	agtgcttaaccggaacaaacc	<i>FLO8F</i>
BCP15	tatgatcatgattacgatgaccgt	<i>FLO8R</i>
BCP46	ggaacaagctgagctggac	Flanking <i>TEC1</i>
BCP47	tcgtggttcatccaagtga	Flanking <i>TEC1</i>
BCP191	cccaagcgagacctagagtg	Flanking <i>STE12</i>
BCP192	gaacatcgatgccttcacct	Flanking <i>STE12</i>
BCP195	aagtgattcgtgggtaacg	Flanking <i>STE7</i>
BCP196	tgggttattaatcgcttcg	Flanking <i>STE7</i>
BCP199	attctcgccaacttttct	Flanking <i>STE11</i>
BCP200	tcttcgtgcttccatctgtg	Flanking <i>STE11</i>
BCP236	tccccttggtaaagaaatg	Flanking <i>kss1</i>
BCP237	ttgattacagtcgctcagc	Flanking <i>kss1</i>
BCP249	GGTTCTAATTAATACTTTTGTAGGCCTCAAAAATCCATATACGCACACTatgac agagcagaaagccctag	to replace the <i>FLO11</i> ORF with <i>HIS3</i>
BCP257	tgatgagggtgaagggaac	<i>RPI1</i> swap
BCP316	ggTGCATCCAACCTTGAACATTTTCGAGAAAGC	For amplifying PEST seq from <i>CLN2</i>
BCP317	CTATATACTTGGGTATTGCCATACC	For amplifying PEST seq from <i>CLN2</i>
BCP320	GCTTTCGAAATGTTCAAGTTGGATGCaccataagaacaccttggggag	linearize pRS313 to add PEST seq from <i>CLN2</i>
BCP321	GGTATGGGCAATACCCAAGTAATATAGtgacaccgattatttaaagctg	linearize pRS313 to add PEST seq from <i>CLN2</i>
BCP324	atttaagaatgaaaacatcgtaatgaagaacgaacatgttggattgtatcaCTATATACTTGGGT ATTGCCATACC	To replace <i>FLO11</i> with <i>HIS3PEST</i>
BCP358	CTTTTTTTAAGTCTTTTTTTTTTCTCATCTTTTATTACTGATATTTATAAAgatt gtactgagagtgcac	<i>rpi1::ura3</i>
BCP359	TAGAATTAAGGGGTAGAAAATTTATGGTGGAGACTCCCGATACATACTctgtgcg gtatttcacaccg	<i>rpi1::ura3</i>
BCP360	cgattcgtttaactatttctcagtc	<i>RPI1</i> swap
BCP412	ctcaacagcagatccagcag	<i>MSS11F</i> repeats
BCP413	gaaggcataagtcgggtga	<i>MSS11R</i> repeats
BCP419	cattgaagccgaacaagaatg	<i>RPI1F</i> repeats
BCP420	cttgactgaatgatgctctgggtg	<i>RPI1R</i> repeats
BCP423	tgcaagatttcaggctgttt	<i>SLT2F</i> repeats
BCP424	atccacatctgaaggctgct	<i>SLT2R</i> repeats
BCP534	GACTACAAGGATGATGACGATAAAGGTGACTATAAAGATCATGACATTGATTATA AAGACCATGACTAAGcaggtcgacaaccctaat	to build a C terminal flag tagging construct
BCP535	GCGGCCGCATAGGCCACT	to build a C terminal flag tagging construct
BCP536	ACCGTTGCATAATATGTCAACTTCAGACTCAGAAAATTTATGCAACAACATgactac aaggatgatgacgata	C-terminally tag <i>RPI1</i> with FLAG
BCP537	GAATTAAGGGGTAGAAAATTTATGGTGGAGACTCCCGATACATACTTTAgcggcc gcataggccact	C-terminally tag <i>RPI1</i> with FLAG
BCP572	cattaaacccgtggaacagc	<i>GAL11F</i> repeats
BCP573	gggaataggtgccacttca	<i>GAL11R</i> repeats



BCP574	ctgaatgggtggatccaaat	<i>URA2F</i> repeats
BCP575	agaacagatggatcacctgga	<i>URA2R</i> repeats
BCP576	gaaccggcaagacttaacca	<i>EPL1F</i> repeats
BCP577	ttctgttcgcttctgaattg	<i>EPL1R</i> repeats
BCP580	ggacaggagcaggaagaaaa	<i>NUP159F</i> repeats
BCP581	tccgaatgcagatgtaccaa	<i>NUP159R</i> repeats
BCP584	atgggcataaacggtgacat	<i>VHS3F</i> repeats
BCP585	agatcgctgtagccctcctt	<i>VHS3R</i> repeats
BCP586	aacctgcacaggaacatcc	<i>TFA1F</i> repeats
BCP587	ctgaagcagtgaggtagca	<i>TFA1R</i> repeats
BCP588	cccacgactacaagcacaaa	<i>WSC4F</i> repeats
BCP589	ctgtagaatgggggctga	<i>WSC4R</i> repeats
BCP628	aaggctgcagtggtcaagt	<i>DNF2F</i> repeats
BCP629	atatctgaactccccgatgg	<i>DNF2R</i> repeats
BCP632	tacaatcccacgcagtttca	<i>ULP2F</i> repeats
BCP633	ttccgtagttgcatcatcaaa	<i>ULP2R</i> repeats
BCP634	gctggaaaacgactcaaagc	<i>SPT8F</i> repeats
BCP635	agcagccttttctcatcat	<i>SPT8R</i> repeats
BCP636	atgatgagcaaaaggctgct	<i>SPT8F</i> repeats
BCP637	tccattagcagaggcttctgt	<i>SPT8R</i> repeats
BCP638	ctgtgtcaggacgcataga	<i>RIM15F</i> repeats
BCP639	tccttggggaaaactgaaaa	<i>RIM15R</i> repeats
BCP640	tcaaattgatgccaggttc	<i>SNF2F</i> repeats
BCP641	ttgctcggcagtaaacattg	<i>SNF2R</i> repeats
BCP642	agtacggggaccttgaacct	<i>SWE1F</i> repeats
BCP643	tacgagaatccacgctttcc	<i>SWE1R</i> repeats
BCP644	cagctggtgttcagggaaat	<i>PTP3F</i> repeats
BCP645	ccaaatcaggccaatttttc	<i>PTP3R</i> repeats
BCP646	acaacggcgatgaaaagaat	<i>MED2F</i> repeats
BCP647	tgccgttatcgtcattgttg	<i>MED2R</i> repeats
BCP648	aggctggataacctgcaaga	<i>DSN1F</i> repeats
BCP649	ttgcagtgcacatctcacta	<i>DSN1R</i> repeats
BCP650	caagaccattcgtgcagta	<i>IXR1F</i> repeats
BCP651	taaggcgttgtttgtttg	<i>IXR1R</i> repeats
BCP654	atgggaactccaacctgaca	<i>PGD1F</i> repeats
BCP655	agtcgactgctgtgcgtaga	<i>PGD1R</i> repeats
BCP656	ccaataacaccccgtacag	<i>PGD1F</i> repeats
BCP657	tactgtggttaggctgctg	<i>PGD1R</i> repeats
BCP658	tagtttgaaggaacgcgaca	<i>UBP10F</i> repeats
BCP659	gaaccaagttttcaccaatg	<i>UBP10R</i> repeats
BCP660	atgattcagcaacgacacca	<i>SNF5F</i> repeats

BCP661	aggaggagggtagaagtgc	<i>SNF5R</i> repeats
BCP662	tgtgcacaacaacaagtgc	<i>SNF5F</i> repeats
BCP663	gctggtgctgctgtattgg	<i>SNF5R</i> repeats
<i>FLO11</i> FW	cactttgaagttatgccacacaag	<i>FLO11</i> qPCR
<i>FLO11</i> RV	cttgcatattgagcggcactac	<i>FLO11</i> qPCR
<i>ACT1</i> FW	ctccaccactgctgaaagagaa	<i>ACT1</i> qPCR
<i>ACT1</i> RV	ccaaggcgacgtaacatagtttt	<i>ACT1</i> qPCR