



**Figure S3** Analysis of ploidy of *WHI3* and *whi3Δ* strains carrying genomic *MIG2-GFP* fusions. (A) Detection of *MIG2* and *MIG2-GFP* alleles by PCR analysis. *MIG2* was chromosomally tagged with GFP in haploid yeast strain YHUM468 (*WHI3*) and YHUM1920 (*whi3Δ*) after approximately 25 generations on solid SC medium. At least 10 independent resulting clones together with the parental strains were analyzed for the presence of *MIG2* or *MIG2-GFP* using PCR. All clones derived from YHUM468 (*WHI3*) produced the same pattern represented by yeast strain YHUM1884 (*WHI3 MIG2-GFP*), whereas clones derived from YHUM1920 (*whi3Δ*) produced two distinct patterns represented by YHUM1929 (*whi3Δ MIG2-GFP*) or YHUM2151 (*whi3Δ/whi3Δ MIG2/MIG2-GFP*). (B) Ploidy of yeast strains YHUM492 (*WHI3/WHI3*), YHUM1920 (*whi3Δ*), and YHUM2151 (*whi3Δ/whi3Δ MIG2/MIG2-GFP*) was determined by FACS analysis as described in Figure 4B.