



**Figure S4 Viability analysis following the temperature shift procedure used for the block-and-release protocol of *CDC14* and *cdc14-1* diploid strains homozygous and heterozygous, respectively, for the ~55,000 SNPs.** In order to obtain the corresponding diploid strains, reference W303 (W) and YJM789 (Y) haploids carrying either the wild type *CDC14* or the temperature sensitive *cdc14-1* alleles were mated with themselves (Y/Y or W/W) or between them (W/Y). Each diploid strain was grown at 25°C in YPD and then an aliquot was directly plated on YPD and incubated at 25°C for three days ("before", blue bars), whereas another aliquot was taken after incubating the culture at 37°C for 3 h ("after", red bars). For each aliquot, plated cells were estimated under a haemocytometer and viability represents CFU versus plated cells. Error bars represent s.e.m (N=3).