Figure S1

Effect of pli1 deletion on the stability of ura4+ gene inserted at cnt1. (A) Structure of CEN1 and CEN3 central domain in WT and CEN1: cnt1(NcoI)::ura4+ strains. Kpn I and Nco I sites, sizes of their respective digestion fragments and positions of the probes used for the Southern Blot analysis are indicated. Note that the cnt1 and ura4 probes also recognize homologous sequences respectively at CEN3 and ura4D/SE loci, thus serving as internal controls. (B) Southern Blot analysis of stable ura- independent clones raising from CEN1-cnt1(NcoI)::ura4 deleted for pli1 gene. After digestion with Kpn I, genomic DNA prepared in agarose plugs was subjected to pulsed field electrophoresis on 1.2 % agarose gel and analysed by a Southern Blot using the cnt1 probe. The membrane was then stripped and reprobed with the ura4 probe. Genomic DNA was also digested with Nco I, subjected to electrophoresis on 0.75 % agarose gel, transferred to a nylon membrane, and hybridized to the imr1 probe. Sizes or identities of bands are indicated. Strains used: CEN1*: PB10; CEN1-cnt1(NcoI)::ura4*: WT=FY336, pli1Δ=PG2964, and 20 independent [ura-] clones isolated from the PG2964 strain=BX11_1 to 20.