A

Cen-otr-dg

ChIP CENP-A^{Cnp1}

□ *Endog. CENP-A^{Cnp1}*
■ *nmt41-CENP-A^{Cnp1}*

wt   *ccq1Δ*   *taz1Δ*   *rif1Δ*   wt   *ccq1Δ*   *clr4Δ*   wt   *ccq1Δ*   *clr3Δ*
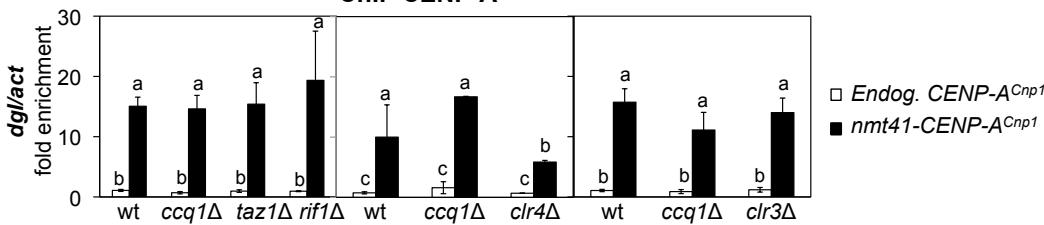
B

Cen-cnt1

ChIP CENP-A^{Cnp1}

□ *Endog. CENP-A^{Cnp1}*
■ *nmt41-CENP-A^{Cnp1}*

wt   *ccq1Δ*   *taz1Δ*   *rif1Δ*   wt   *ccq1Δ*   *clr4Δ*   wt   *ccq1Δ*   *clr3Δ*

C

Cen-otr-dg

ChIP H3K9me2

□ *Endog. CENP-A^{Cnp1}*
■ *nmt41CENP-A^{Cnp1}*

wt   *ccq1Δ*   *taz1Δ clr4Δ*
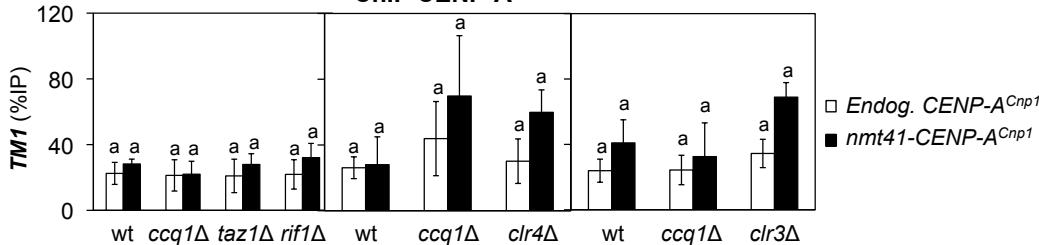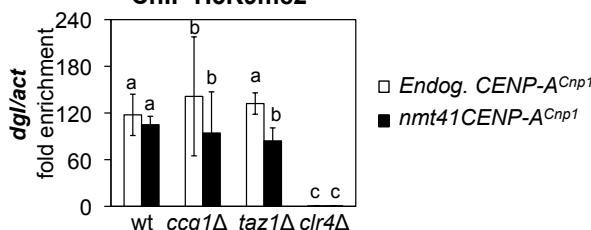
Figure S5. Enrichment of CENP-A^{Cnp1}, CENP-C^{Cnp3} and H3K9me2 at centromeres in wild-type and mutant cells carrying the Ch16 *ura4+*-Tel minichromosome derivatives.

ChIP-qPCR of CENP-A^{Cnp1} levels on centromeric otr *dgl* repeats **(A)** and at TM1 in the central region of centromere 1 **(B)** in wild-type (wt) and mutant cells (*ccq1Δ*, *taz1Δ*, *rif1Δ*, *clr4Δ* and *clr3Δ*) carrying the Ch16-72 (*ura4+*-Tel) minichromosome and expressing endogenous (Endog. CENP-A^{Cnp1}) or additional (*nmt41*-CENP-A^{Cnp1}) CENP-A^{Cnp1} levels. **(C)** ChIP-qPCR of H3K9me2 levels on centromeric otr *dgl* repeats in wild-type (wt) and mutant cells (*ccq1Δ*, *taz1Δ, and clr4Δ*) with the same configuration. Enrichment on *dgl* was normalized the signal obtained for the gene encoding actin (*act1+*). Enrichment at *TM1* is reported as the percentage of immunoprecipitated chromatin (%IP). Error bars indicate S.D. from 3 biological replicates. Mean values marked with different letter (a, b or c) indicate results significantly different from each other, as established by One Way ANOVA and Holm-Sidak test for multiple comparison (P<0.01 in (A) and (B) or P<0.05 in (C).