FIGURE LEGENDS FOR SUPPLEMENTAL MATERIAL

Figure S1.- Plasmids used in these experiments. Maps of the plasmids used to express YFP (A), CID-YFP (B), HFD_{CID}-YFP (C), N_{CID}-YFP (D), N_{CID}HFD_{H3}-YFP (E) and N_{H3}HFD_{CID}-YFP (F) are presented. Relevant elements of the constructs are indicated. Some relevant restriction sites are also indicated. Additional details are available upon request.

Figure S2.- Treatment with Triton X-100 does not solubilises CID-YFP. (A) Cells expressing CID-YFP were treated with Triton X-100 before visualization. As with untreated cells (see Figure 1A), CID-YFP localizes throughout chromatin (a), only at centromeres (c) and both, at centromeres and throughout chromatin (b). (B) Cells expressing N_{CID} -YFP were either treated with Triton X-100 (b) or not (a) before visualization. Bars correspond to 5μm, except in row b of panel B where it corresponds to 10μm.

Figure S3.- Centromeric localization of CID-YFP does not correlate with cell division. The percentage of cells showing centromeric localization of CID-YFP (●) is presented as a function of increasing time after transfection and it is compared to the relative growth of the culture after transfection (O). Results are the average of three independent experiments.

Movie 1.- *In vivo* time-lapse analysis of a nucleus showing clearance of mislocalized CID during interphase.

Movie 2.- *In vivo* time-lapse analysis of a cell showing mislocalized CID that undergoes aberrant mitosis giving rise to a daughter cell which recieves no DNA at all.

Movie 3.- *In vivo* time-lapse analysis of a cell showing a mixed pattern of CID localization, at centromeres and throughout chromatin, that undergoes normal mitosis.