P w/w; LP1 UAS-M17/St, Cy, Tb X w/Y; LP1 Tub-GAL4/St, Cy, Tb

Cy+ Tb+ Cy Tb
164 107

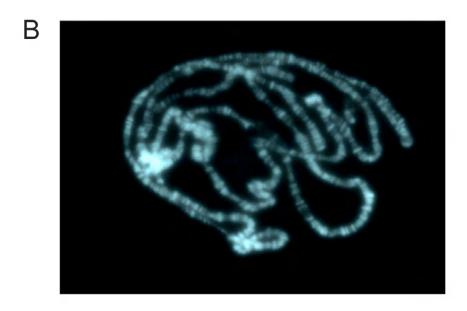


Fig. S1. Rescue of *Yeti* lethality in *LP1/LP1*; *UAS-Yeti-M17/tub-GAL4* flies. A) Results of genetic crosses where the expression of *M17* transgene is ubiquitously driven by the *tub-GAL4* driver. B) Fully rescued polytene chromosomes of *LP1/LP1*; *UAS-Yeti-M17/tub-GAL4* larvae stained with DAPI.

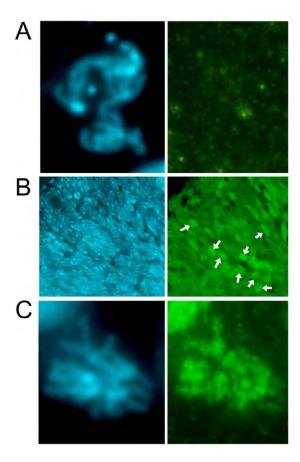


Fig. S2. Immunostaining of mitotic chromosomes and tissue from larval brains with confocal microscope. A) Mitotic chromosomes from neuroblasts of larvae expressing *Yeti-GFP* trangene under the *elev-GAL4* driver. B) Mitotic brain squashes showing nuclei stained by anti-GFP C) Mitotic chromosome from neuroblasts of larvae expressing *H2A.V-GFP* under the endogenous *H2A.V* promoter. Chromosomes are sequentially stained with DAPI and with anti-GFP. No significant GFP staning is seen on chromosomes from *elav-GAL4*; *UAS-Yeti-GFP/UAS-Yeti-GFP* (A, right panel); in the same larvae, GFP staining is present in mitotic nuclei and pointed by arrows (B, right panel). In the control line expressing *H2A.V-GFP*, *c*hromosomes are clearly stained with anti-GFP (C, right panel).