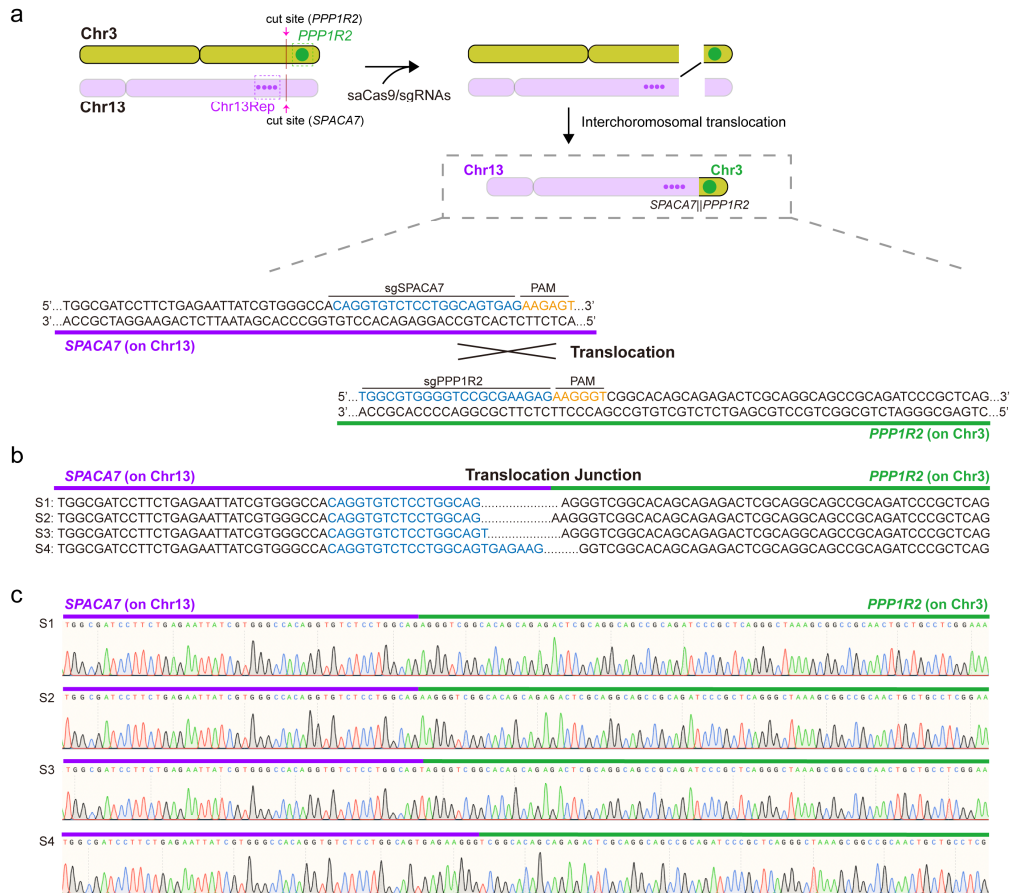




**Supplementary Figure 8 Sequencing analysis of interchromosomal translocation between Chr3 and Chr13.** Related to Figs. 5g, h. **(a)** Schematic of DSB-induced interchromosomal rejoining between Chr3 and Chr13. Same strategy as in Fig. 4a. Enlarged part showing the proposed translocation between small Chr3 fragment (green, *PPP1R2*) and large Chr13 fragment (purple, Chr13Rep). The gRNA targeting sites for saCas9 are shown in blue and PAMs are shown in orange. **(b and c)** The identified sequences of interchromosomal translocation segments for Chr3 (green, small fragment): Chr13 (purple). **(b)** Four different translocated fragments (S1-S4) were detected in 25 sequenced clones. The verified sequence contains missing nucleotides among translocated junctions. **(c)** Sanger sequencing maps of interchromosomal

rejoining regions S1-S4 in (b). Sequences mapped to Chr13 were marked with purple color and those mapped to Chr3 were marked green.