

E Crossing over at palindrome P5

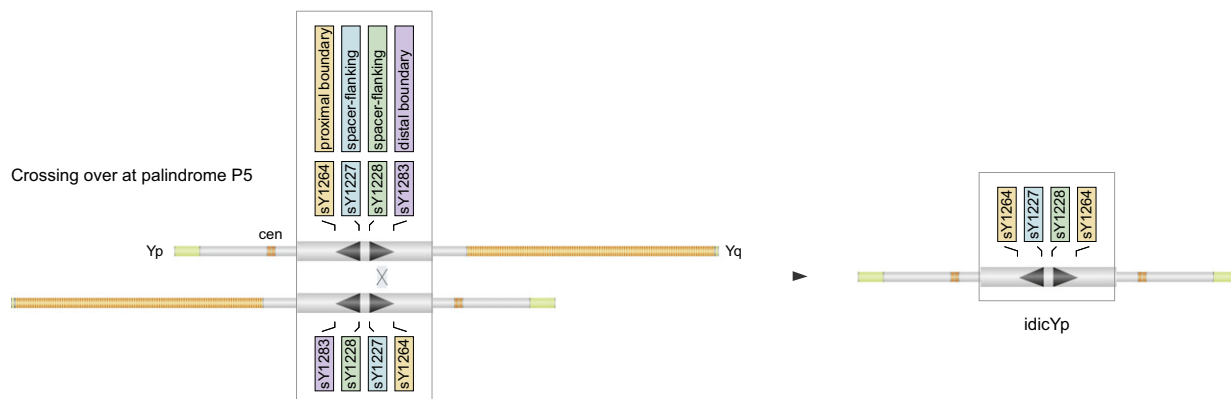


Figure 2. STS Content of Structurally Anomalous Y Chromosomes in 85 Patients with Deletion Breakpoints in Yq or Centromere

(A) Locations of three STSs assayed in initial screen for Yq or centromeric breakpoints.

(B) Expanded view of centromere and Yq, with palindromes P1–P8, inverted repeat IR2, and heterochromatic blocks (orange).

(C) STSs employed in fine-mapping of breakpoints. These include boundary and spacer-flanking markers for each palindrome and inverted repeat, and markers around each heterochromatic block.

(D) Results of testing DNAs from 85 patients for presence or absence of STSs. Solid black bars encompass STSs found to be present. Gray bars indicate breakpoint intervals that could not be further narrowed because of cross-amplification at other loci. See [Figure S2](#) for identifiers of patients tested.

(E) Predicted molecular signature of idicYp formed by homologous recombination between sister chromatids at palindrome P5. Thirteen individuals with this molecular signature are shown in (D).