

Yp evolution. Inversion through LINE-LINE recombination that disrupted X-transposed block [Schwartz A, et al. Hum Mol Genet 7, 1 (1998)] and at the same time created massive inverted duplication IR3, responsible for Yp inversion polymorphism [Tilford CA, et al.

(a) X transposed block (pink), flanked by 300-kb direct repeats (blue). Black arrows indicate LINE 1 insertions in opposite orientation.
(b) Inversion caused by LINE-LINE recombination disrupted X-transposed block and reversed one of the repeat units.
(c) Resulting chromosome corresponds to previously published map [Foote S, et al. Science 258, 60 (1992)].
(d) Inversion caused by IR3/IR3 recombination changed orientation of short X/Y homologous block.
(e) Resulting chromosome corresponds to RPCI-11 sequence. Notice absence of any intervening sequence between distal IR3 unit and short and long X/Y homologous blocks.