

Repping et al. **Supplementary Figure 3** Deletion at center of palindrome P3 in sample PD339. PD339 is in Y haplotype E*(xE2,E3ab). We had only one additional sample, PD383, in this haplotype, and this sample had the same deletion as assayed by STS content. PD339 and PD383 have different microsatellite alleles at DYS385, DYS389I, DYS389II, and Y-GATA-C, which indicates that they are not closely related and thus suggests that this deletion may be common in this haplotype. See Supplementary Methods for GenBank accessions of STSs sY1258, sY1196, sY1616, sY1617, sY1197, and sY1192, and the primer pairs and PCR conditions for amplifying FISH probe 17916/7. A copy of *RBM Y1* is located in t2 and may be deleted in PD339.

