



Supplementary Figure 1 Triangular dot-plots of a revised human X-ampliconic region containing the *C745* gene family. **a**, The previous multi-haplotype reference sequence. Each dot represents 100% nucleotide identity within a window of 100 nucleotides; direct repeats appear as horizontal lines, inverted repeats as vertical lines, and palindromes as vertical lines that nearly intersect the baseline. Black arrows immediately below plots denote positions and orientations of amplicons. Further below, sequenced clones from RP-11, WI-2, RP-13 libraries (each from a different individual) contributing to the assembly are depicted as green, red, and orange bars, respectively; each bar reflects the extent and position within the assembly of finished sequence for that clone. (As per the human genome assembly standard, finished-sequence overlaps between adjoining clones are limited to 2 kb.) Genbank accession numbers are in Supplementary Table 1. **b**, SHIMS assembly of same region. All BACs derive from RP-11 library (one male) and are fully sequenced; each BAC's finished sequence extensively overlaps those of adjoining BACs.