**Figure S4** A cross-species gene-conversion event. ZST and Bol26 are two con-specific, sister-group strains of *B. burgdorferi sensu stricto* from Europe. They are both distantly related to PKo, a *B. afzelii* strain also from Europe. A shift in phylogenetic relationships occurs in the depicted ospC-bbb22 region on their cp26 plasmids, where Bol26 is nearly identical to PKo while greatly divergent from its sister genome ZST, suggesting a horizontal cross-species transfer of an approximately 1900-bp long DNA fragment from a PKo-like strain into the Bol26 genome. SNPs between Bol26 and PKo are shaded.