



**Figure S5. The variable region in the CTD**

Alternative conformations of the helix 8/9 loop at the NTD-CTD contact region, as observed in the orthorhombic crystals of crosslinked CA. The protomers are colored blue and orange. Magenta mesh shows unbiased  $F_o - F_c$  density, calculated using model phases prior to building this region (contoured at  $+2.5\sigma$ ). The sidechains of selected residues are shown explicitly and labeled.