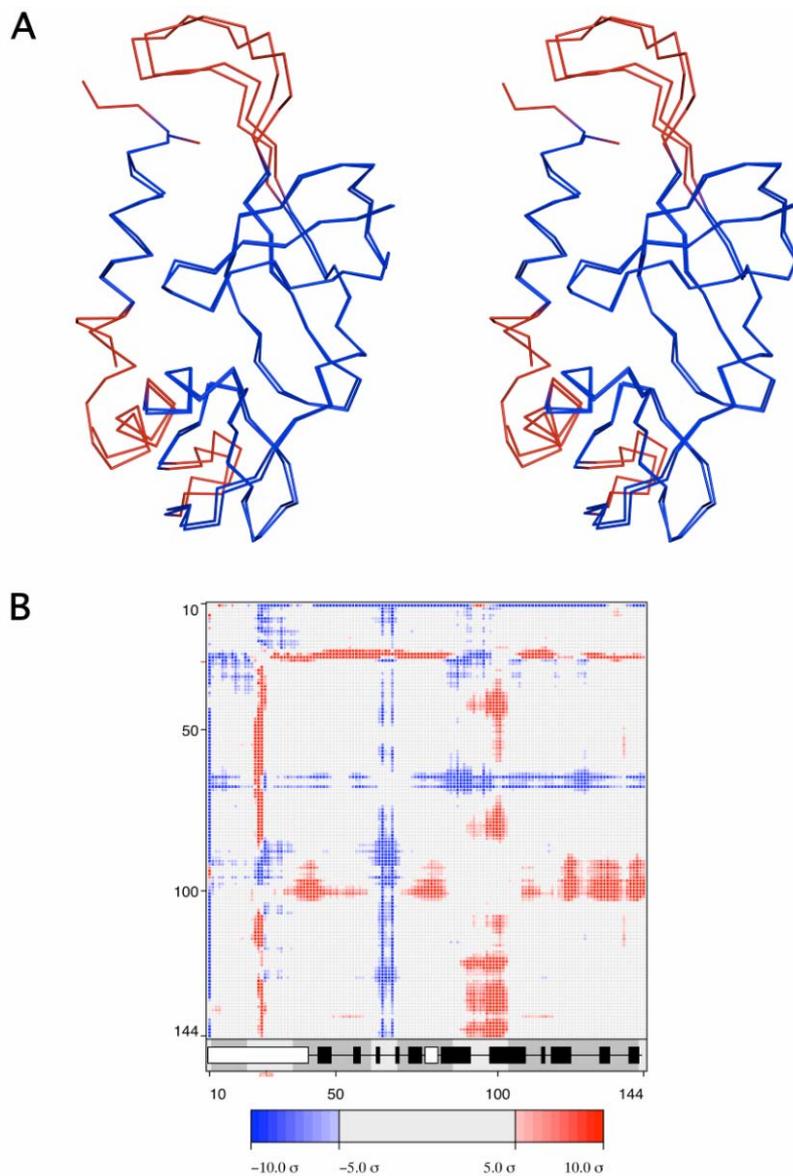


### Supplementary Material

**Figure S1. Comparison of the SSO2064 monomers.** (A) Stereo ribbon diagram showing a  $C^\alpha$  superposition of SSO2064 chains A and B (PDB id: 3irb). Invariant regions are in blue, variable ones in red. (B) Error-scaled pair-wise difference distance matrix plotted from  $5\sigma$  to  $10\sigma$  for the two SSO2064 chains. Color intensities indicate the magnitude of distance change with a scale bar given below.



**FIGURE S1**