

**Additional file 9:** Distribution of the distance along the protein sequence between residues captured for each FreSCO match across all analysed protein structures. Distances were transformed with natural logarithm for visualisation purposes. Residues within a distance of 5 ( $\sim 1.6$  in the graph) can be considered as 'short-range' contacts. FreSCOs spanning more than 10 residues ( $\sim 2.3$  in the graph) are defined as including 'long-range' contacts.

