



Figure S4. Sequence and secondary structural propensities of viable CP sites in the nrGIS-40 dataset. Similar to those in Figure 1, in these charts, each bar shows the relative occurrence of a pattern for the background polypeptides and viable CP sites; but, the background and CP site groups utilized here are nrGIS-40 and nrCPsite_{gis}-40, respectively. The background value was considered as the zero point in each experiment. Dark blue- to light blue-colored bars represent smaller p -values (<0.05) for the difference between the background and CP site groups. The yellow- and red-colored bars represent p -values ≥ 0.05 . The p -values were calculated by permutation test. Patterns examined in this experiment include: (a) amino acids, (b) residue physiochemical types classified according to [34], (c) side-chain physiochemical types classified according to [35], (d) SSE determined by DSSP [45], (e) Ramachandran code, the backbone conformational alphabet defined by SARST [46], and (f) kappa-alpha code, the backbone conformational alphabet defined by 3D-BLAST [47].