



Figure S2. Amino acid compositions of viable CP sites and background protein sequences. In this experiment, protein sequences of nrCPDB-40 were utilized as the “background group” (gray bars). CP site representative sequences of nrCPsite_{cpdb}-40 with lengths varied from 20 (± 10) to 2 (± 1) residues were the “CP site groups”. CP site groups are colored with the colors of a rainbow; a warmer color (*i.e.*, closer to red) represents a shorter CP site representative sequence, which covers a smaller section around the CP cleavage point (p_{cut}). **(a)** Absolute occurrence frequency values for 20 amino acids. **(b)** Relative frequency values with respect to the background for 20 amino acids. The error bars represent standard deviations computed by using a random resampling technique known as bootstrap (see **Materials and Methods**). These results indicate that certain amino acids have increasingly different occurrence frequencies from the background at positions increasingly close to the CP site.