

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: An example of constant-force SMD simulation, related to Fig. 4. The constant-force SMD simulation illustrates the conversion of the DPN plakin domain from a folded (closed) to an extended (open) conformation upon pulling, which accounts for the elongation of 30-33 nm of the DP plakin domain. Color scheme: SR3-4 (green), SH3 (magenta), SR5-6 (blue), SR7-8 (orange), and SR8-CT (cyan).