**Table S1:** L/FXXXG(A) motif based interactions between sub domains.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Interactions | Folding Unit | L/FXXXG(A) Motif [C=O] | Adjacent fold Residue [HN] | H-bond distance A--H (Å) |
| **Main-chain- Main-chain Interactions** | | | | |
|  | Ia-Ib | FKA**L412**GA | **A14** | 2.0 |
| Ib-Ic | LEE**M272**GT | **K293** | 1.9 |
| Ic-Ia | LNR**M344**GA | **S364** | 1.6 |
| IIa-IIb | LIK**M204**GA | **T225** | 2.0 |
| IIb-IIc | LES**L61**GL | **S81** | 2.2 |
| IIc-IIa | FEA**L135**GA | **I155** | 1.8 |
| **Side-chain- Main-chain Interactions** | | | | |
|  | Ia-Ib | **K408**FKALGA | **K18** | 2.1 |
| Ib-Ic | **K268**LREAGA | **K296** | 1.7 |
| Ic-Ia | **E340**LNRMGA | **M369** | 2.1 |