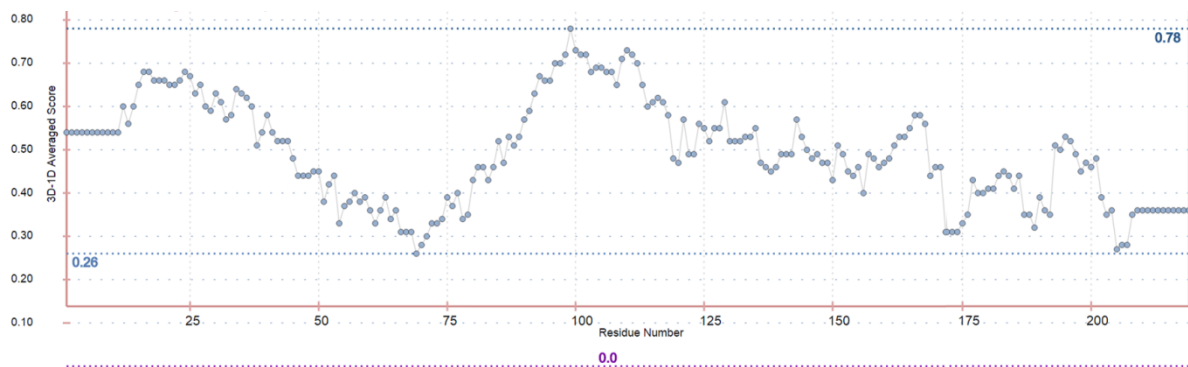
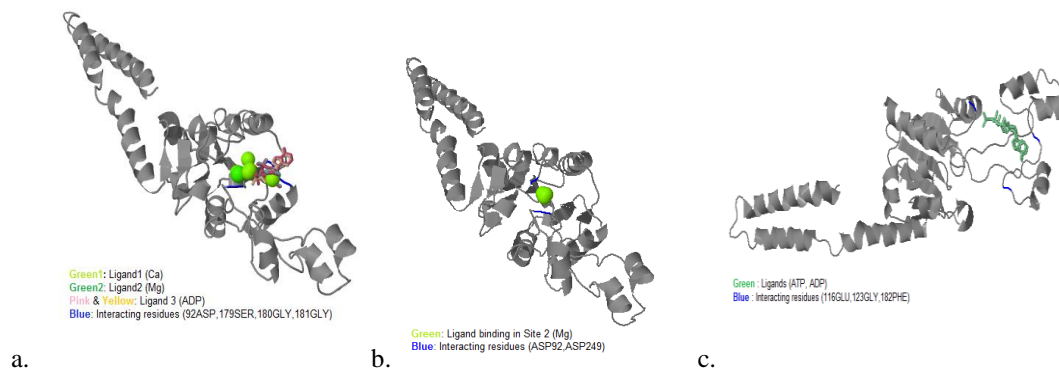
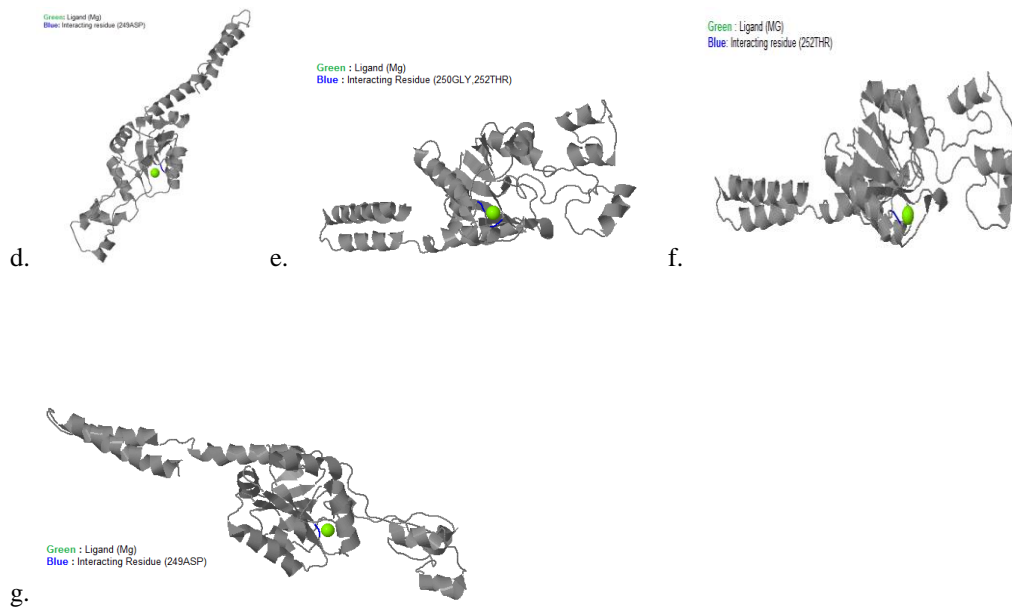


**Supplementary Figure S1:** Cell eFB browser prediction showing subcellular localization of *BjPSP* protein at chloroplast.

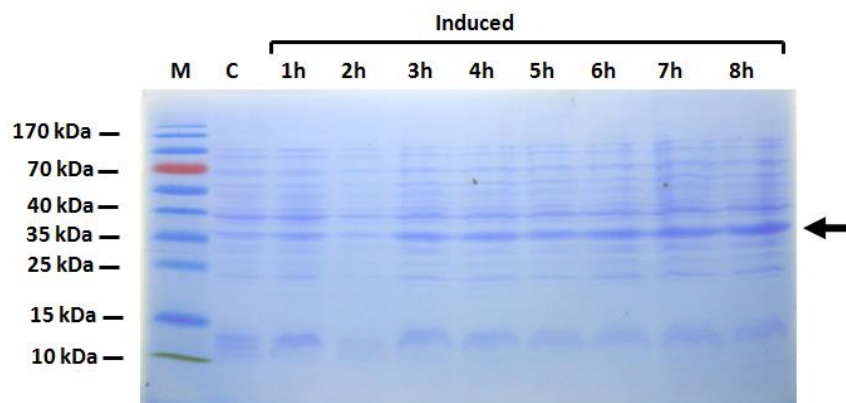


**Supplementary Figure S2:** 3D-1D profile of *BjPSP* protein showing all the residues scored  $\geq 0.26$  (marked in dotted blue line) suggesting good structure.





**Supplementary Figure S3:** Prediction of binding site of *BjPSP* protein using 3DligandSite showing the ligands and its interacting residues. (a) Interacting residues for  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$  and ADP. (b) Interacting residues for  $\text{Mg}^{2+}$  (c) Interacting residues for ATP and ADP. (d) Interacting residues for  $\text{Mg}^{2+}$  (e) Interacting residues for  $\text{Mg}^{2+}$  and (f) Interacting residues for  $\text{Mg}^{2+}$ . (g) Interacting residues for  $\text{Mg}^{2+}$ .



**Supplementary Figure S4:** SDS PAGE gel showing a time course induction study of recombinant protein expression. Proteins were separated in 12% gel and stained with Coomassie Brilliant Blue. Lane 1: Prestained protein ladder (M), Lane 2: Uninduced control (C), Lane 3-10: Induced protein of various time intervals (1h - 8h). Arrow indicating the protein on interest of around 35 kDa.