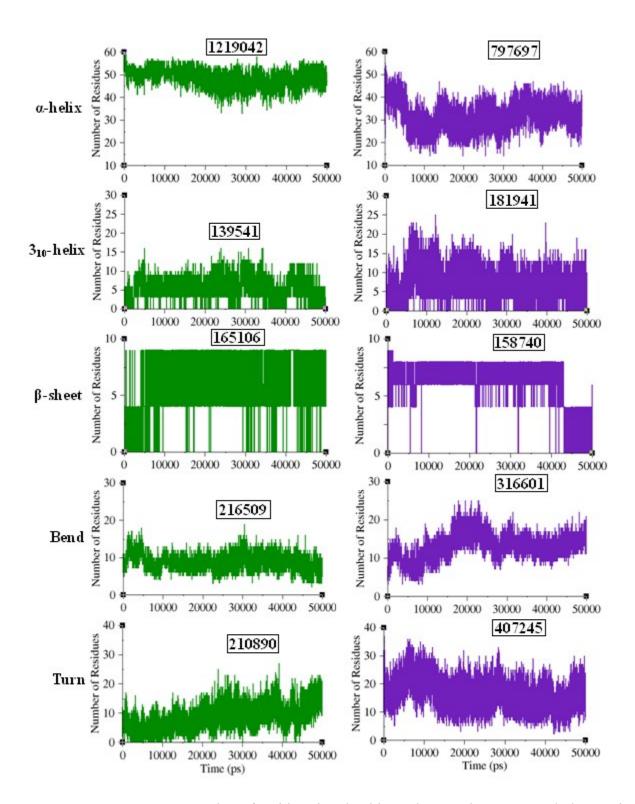
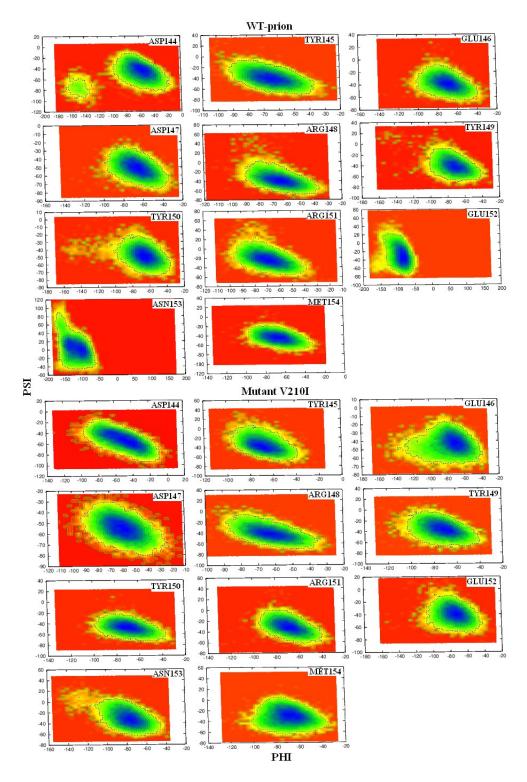
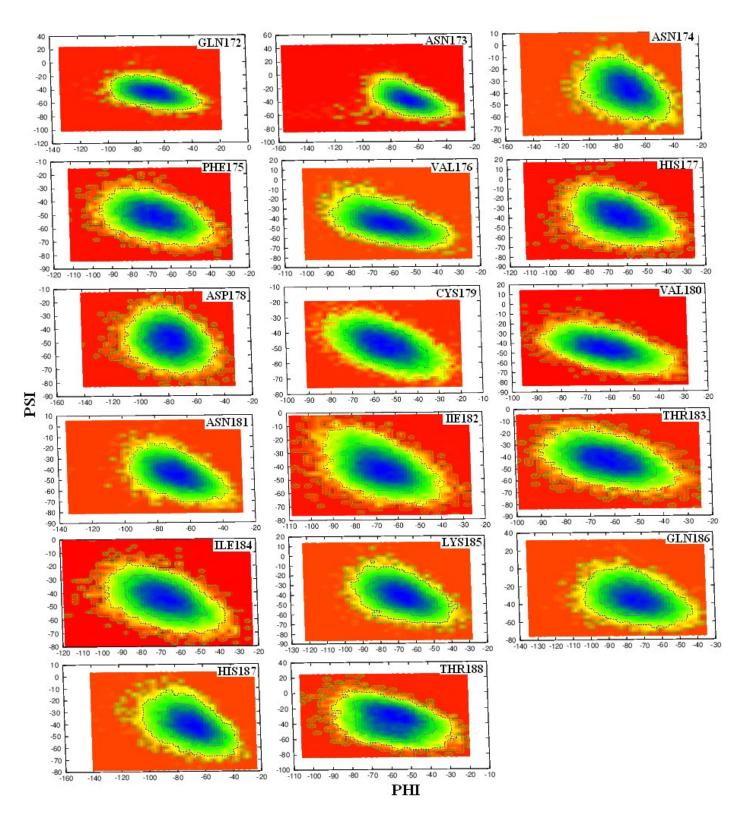
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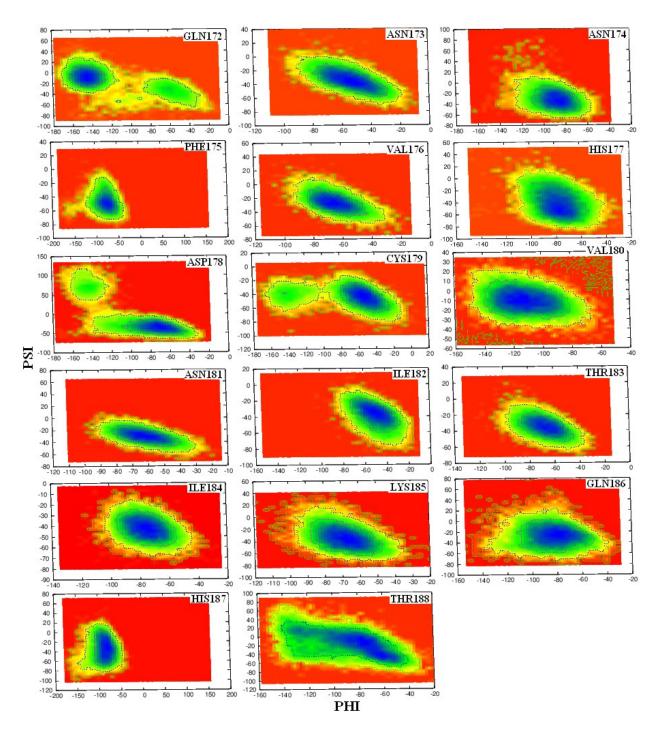
**Supplementary Fig. 1** Number of residues involved in each secondary structural element in the WT-PrP (green) and its mutant (indigo) as a function of time. Total number of residues was mentioned in box.



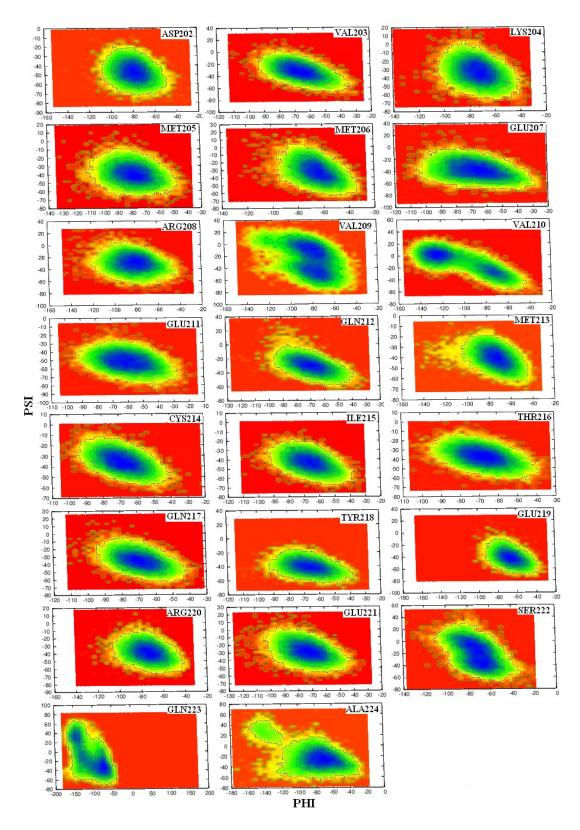
**Supplementary Fig. 2** Phi and Psi angles of α1 residues present in the WT-PrP and its mutant.



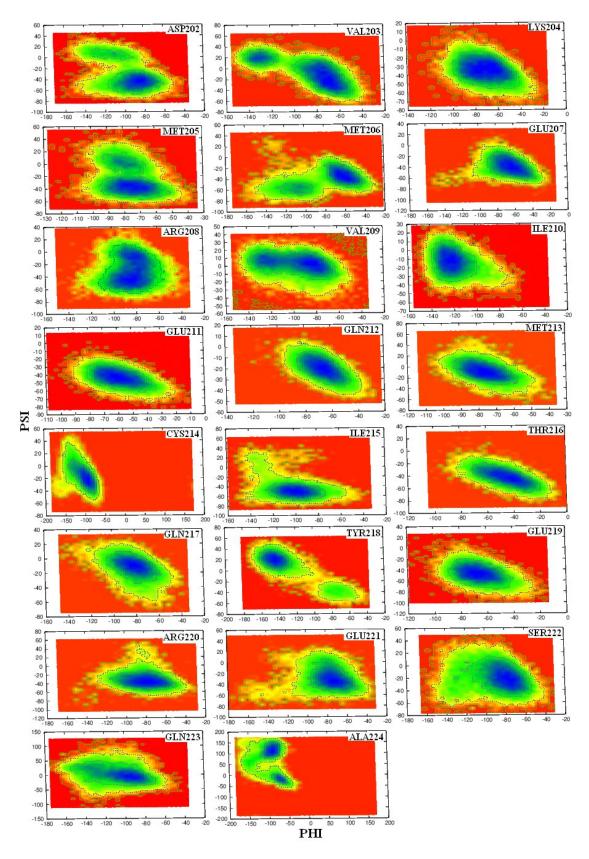
**Supplementary Fig. 3** Phi and Psi angles of  $\alpha$ 2 residues present in the WT-PrP.



**Supplementary Fig. 4** Phi and Psi angles of α2 residues present in the mutant V210I.



**Supplementary Fig. 5** Phi and Psi angles of α3 residues present in the WT-PrP.



**Supplementary Fig. 6** Phi and Psi angles of α3 residues present in the mutant V210I.