

Supplementary Materials:

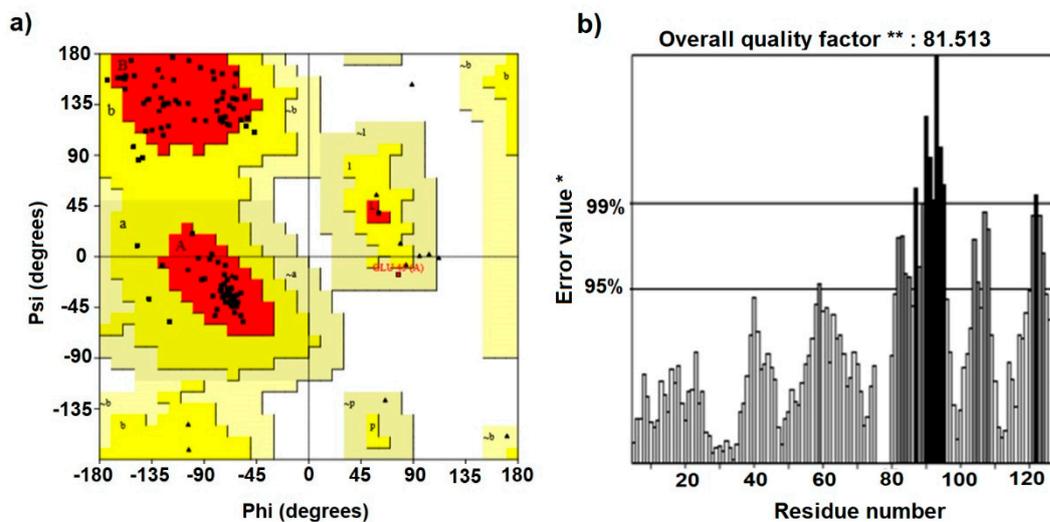
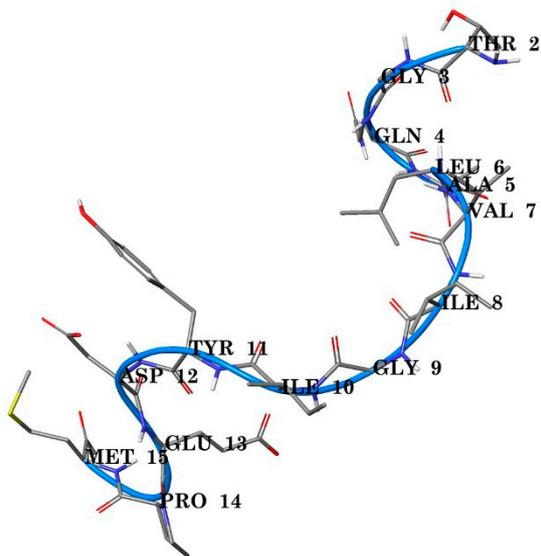


Figure S1: (a) Ramachandran plot of Profilin homology model showing 91.4% of amino acids are in favored region and rest in allowed regions (b) ERRAT profile of the built profilin model before simulations.

a) Peptide 3 (PF3)



b) Peptide 4 (PF4)

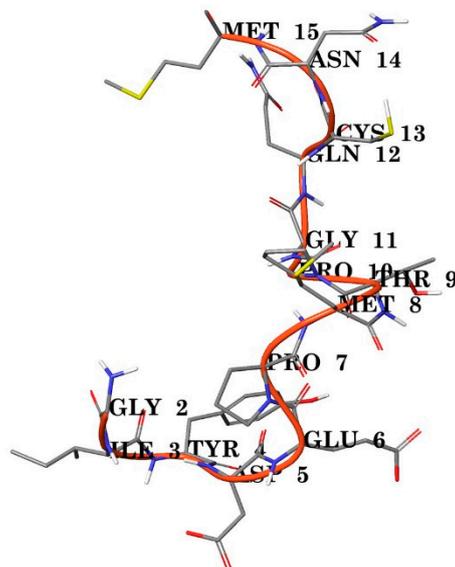


Figure S2: (a) Binding pose of PF3 sequence (b) Binding pose of PF4 sequence

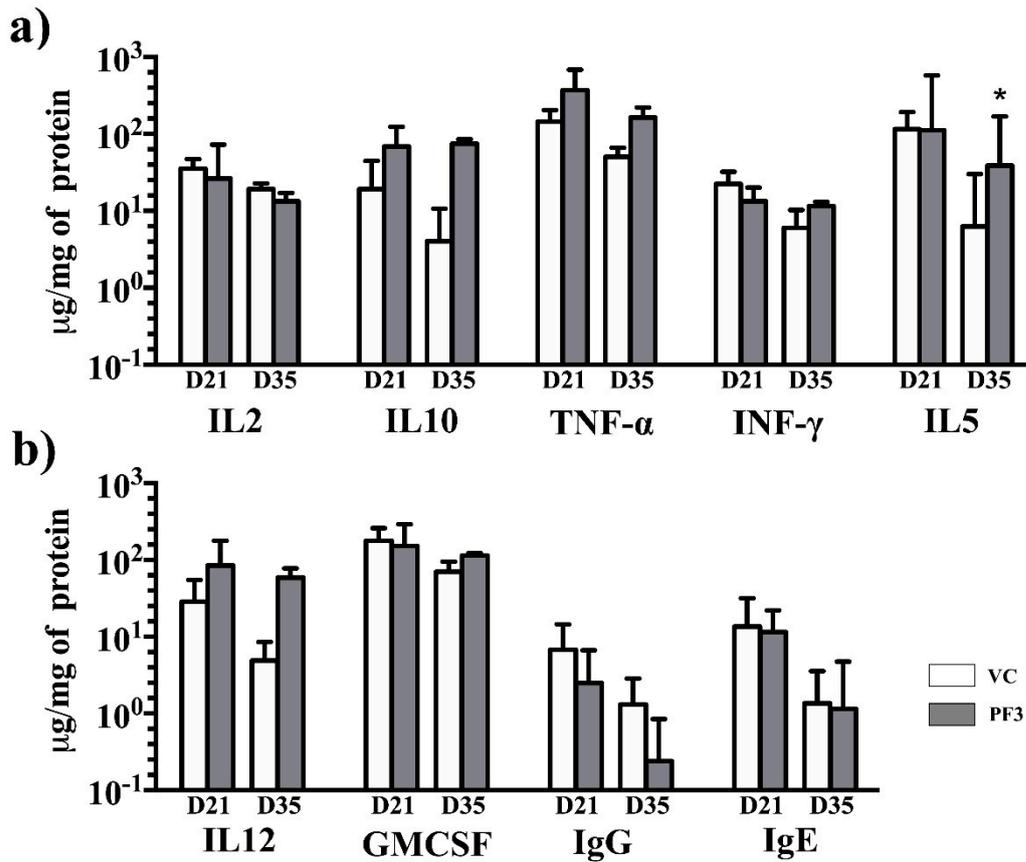


Figure S3: Quantification of Cytokines: PF-4 peptide sensitized mouse serum samples were estimated for (a) IL2, IL10, TNF α , INF- γ and IL5 (b) IL12, GMCSF, IgG and IgE profiles of PF4 sensitized mice. The data shown is Mean \pm SD (n = 3). *represents significance at 95% confidence.