

Figure S1. Sequence alignment between new H1 (ADK25944) and template H1 sequence (3M6S). The identity and similarity were 96.8 % and 97.4 % respectively.

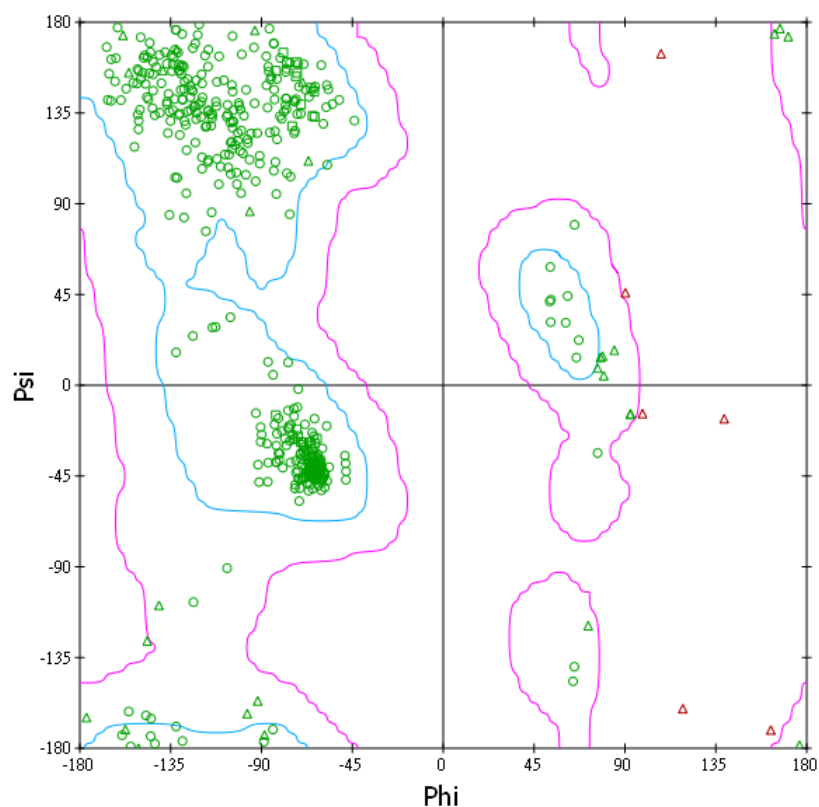


Figure S2. The Ramachandran plot of modeled H1 structure constructed through homology modeling. The generated plot indicates that 94.2 % of the residues were located in the favored region (cyan area), 4.6 % of residues were located in semi-favored region (magenta area), and 1.2 % of residues were located in disallowed region.

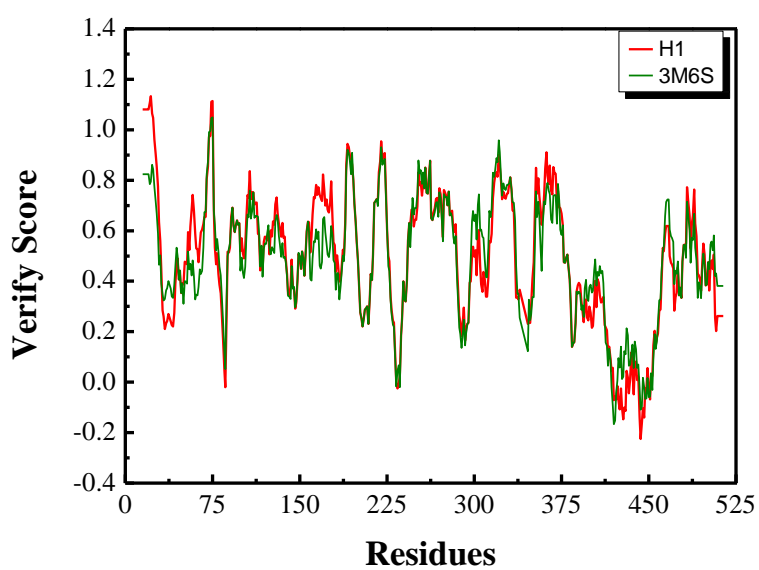


Figure S3. The profile-3D results of modeled and template H1 structures (3M6S). The binding site residues Lys71, Asp103, Asn104, and Arg238 have positive scores, indicating reasonable conformation.