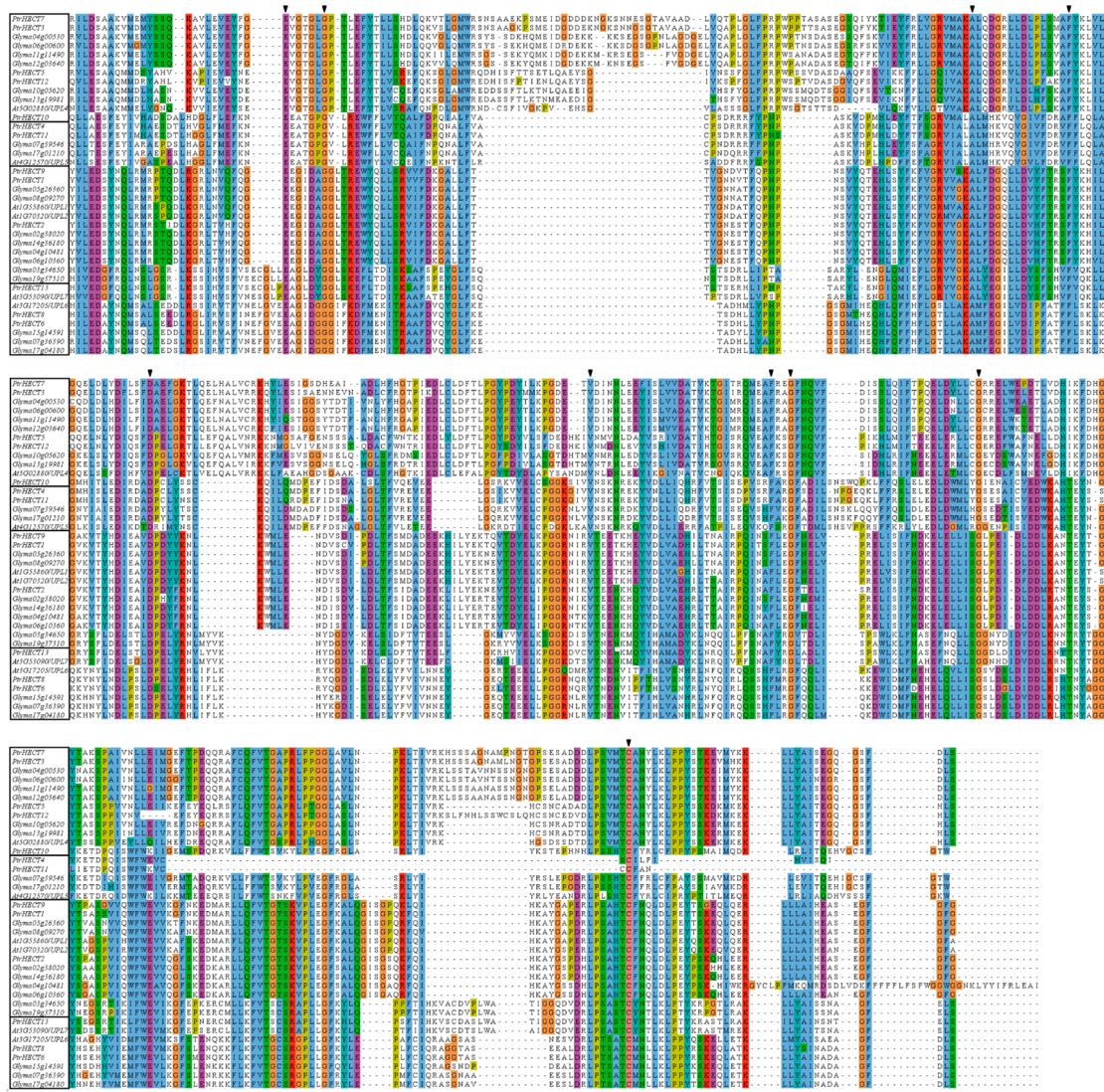
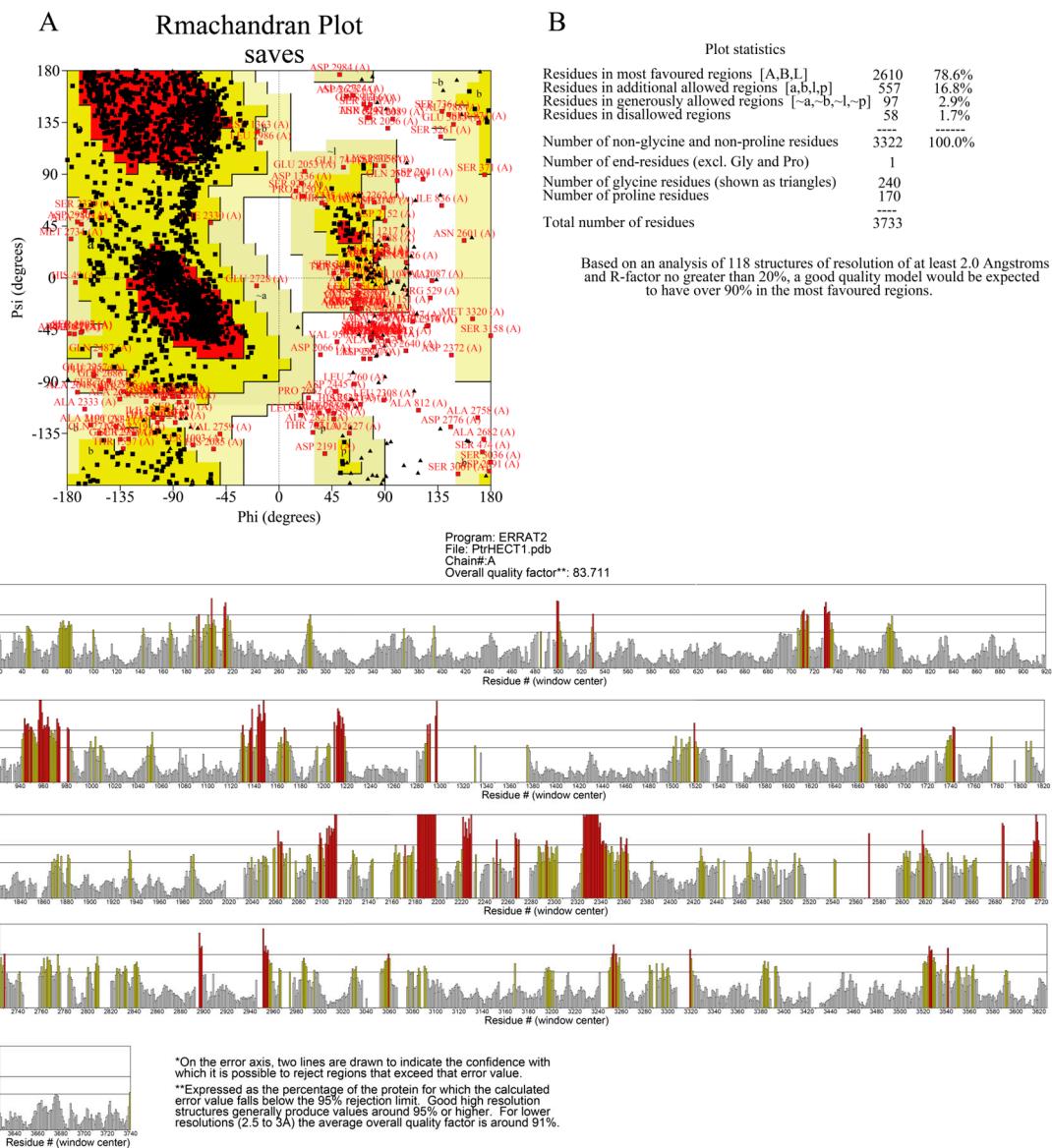


**Supplementy Table S1.** The primers for qRT-PCR.

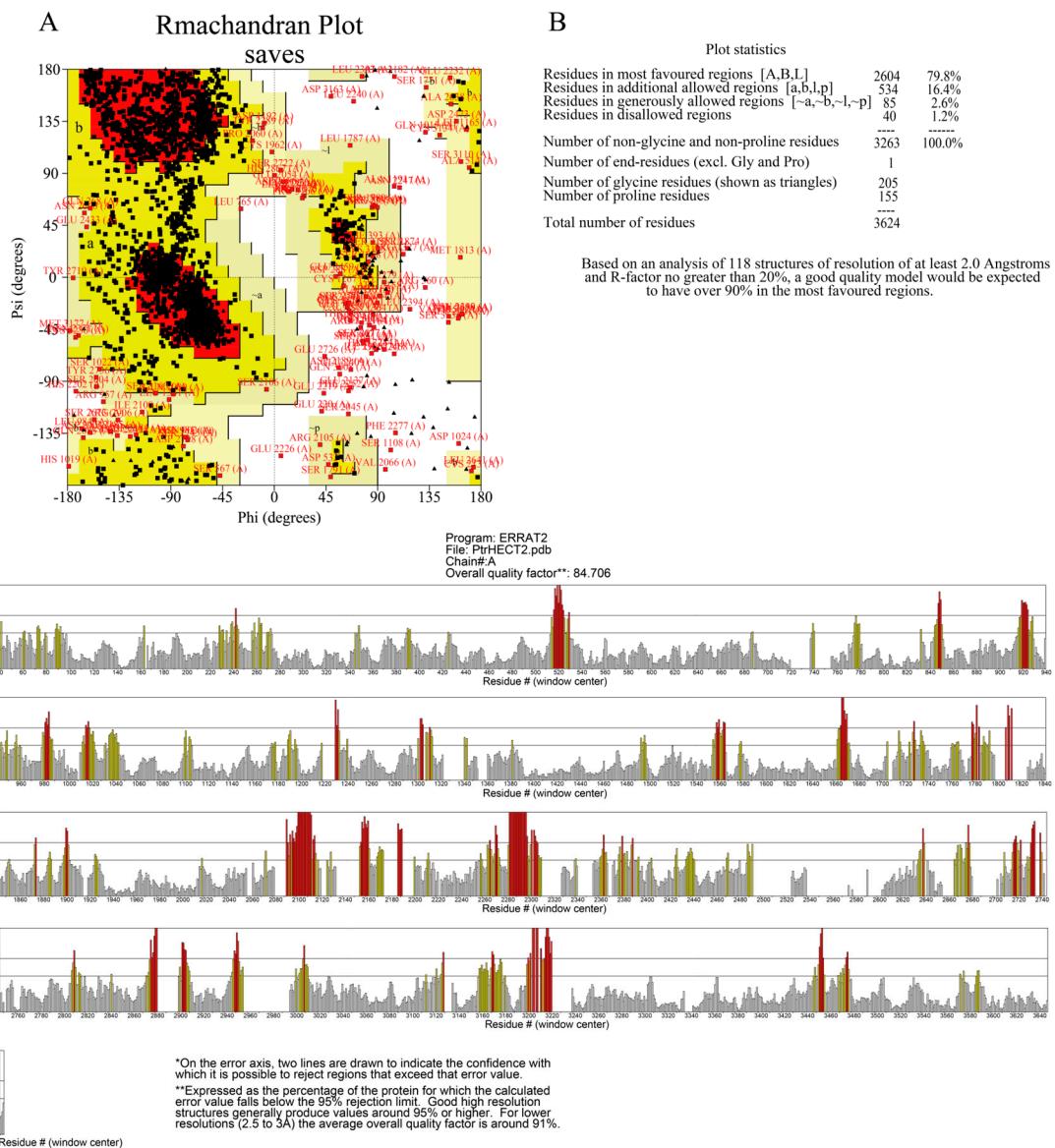
Primer name	Primer sequence (5'→3')
PtrActin.F	TGTTGCCCTTGACTATGAGCAGGA
PtrActin.R	ACGGAATCTCTCAGCTCCAATGGT
PtrHECT1.F	TGAGCAGCATCTTCTAACCT
PtrHECT1.R	GGGTACACCCCATTGTGC
PtrHECT2.F	TGCCTCCTCGCATTCTATTGT
PtrHECT2.R	GGTCCCTGCAGCAAAACTG
PtrHECT3.F	AGCCAGGAGATGAAACTGTTGAT
PtrHECT3.R	GTTCTTCGCCACAAAGC
PtrHECT4.F	TTGTGGAACCTTGCCCTGGT
PtrHECT4.R	CAAGATCTTCAAGCTCCAAGCT
PtrHECT5.F	CGAGGAGGAACCTTGAGCGTT
PtrHECT5.R	CTCCTGTAGGTAGCCGAGGT
PtrHECT6.F	GAGGGAGAAAGGCAGTGGAG
PtrHECT6.R	ATCCCCACCAGCAAATAGGC
PtrHECT7.F	CAGAGAGTTGTGGGAGCCTG
PtrHECT7.R	GGGTTTAGGACAGCCAGACC
PtrHECT8.F	TCATGAGGGGCTTCAGCAG
PtrHECT8.R	TCGCTATGATAACCACCCGC
PtrHECT9.F	CCTTGAGAGTGGTGGGAAC
PtrHECT9.R	CCAGGAGGAAGAGGGGATGA
PtrHECT10.F	AGACGACACCGAATCATCCAC
PtrHECT10.R	GATTGAGACCGACGGAGAGG
PtrHECT11.F	TTTGATGGGAGTGTGGTGG
PtrHECT11.R	GCCAACTTGTTCAAGAGGCAT
PtrHECT12.F	GACGTCGCACGTCTTATCCA
PtrHECT12.R	GAGCTTGAGCAGCTGATTCT
PtrHECT13.F	ACACCATCTCGCAAGCATCA
PtrHECT13.R	TGAAGCGTCTCCAAACCCCTC



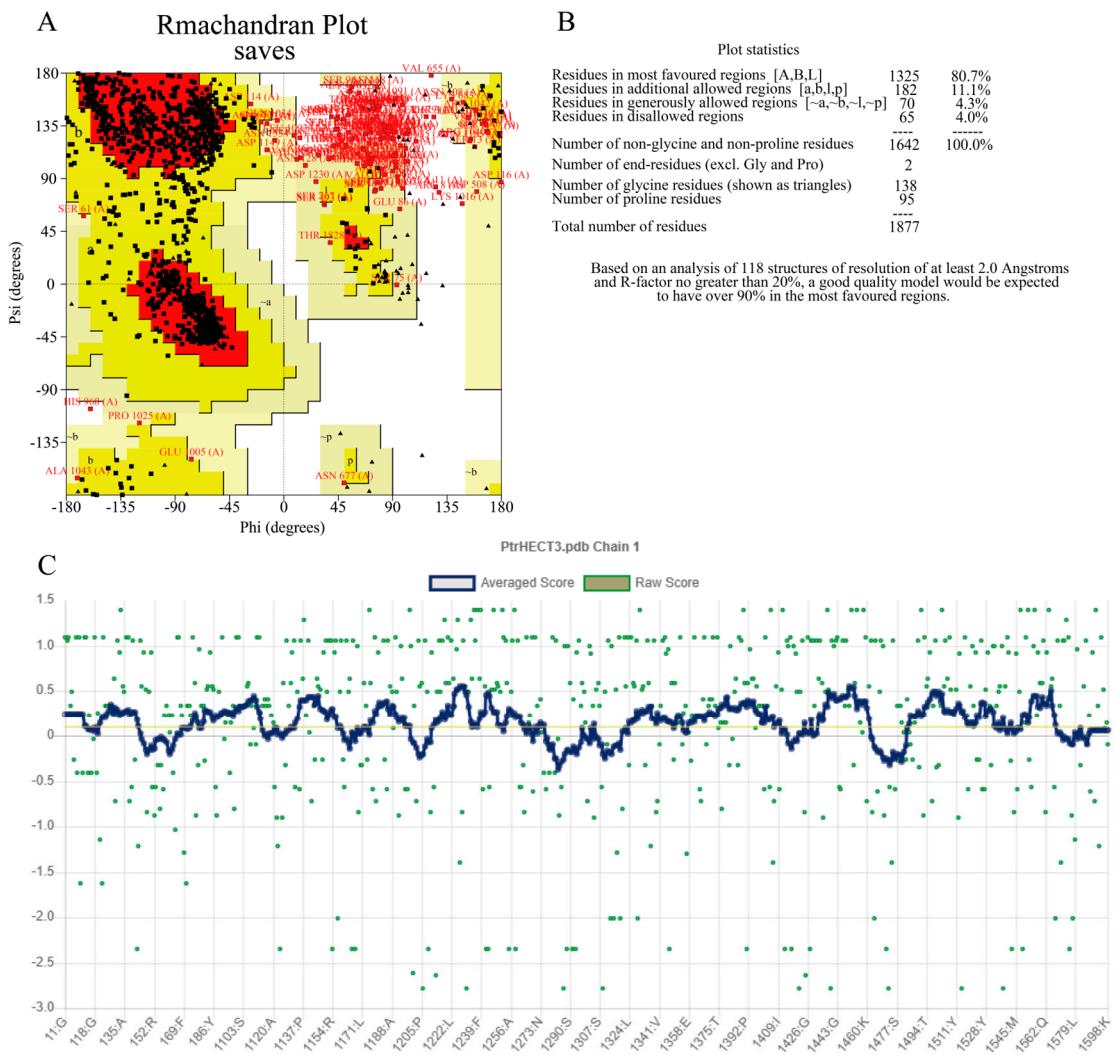
**Supplementary Figure S1.** Sequence alignment of the HECT domain of all the identified HECT proteins in *Populus trichocarpa*, *Arabidopsis thaliana*, *Glycine max*, *Oryza sativa*, *Zea mays* and *Triticum aestivum*. The HECT conserved domain (PF00632) of all the putative HECT proteins were analyzed to identify the conserved active site residues. The triangle indicates the conserved active site cysteine residue.



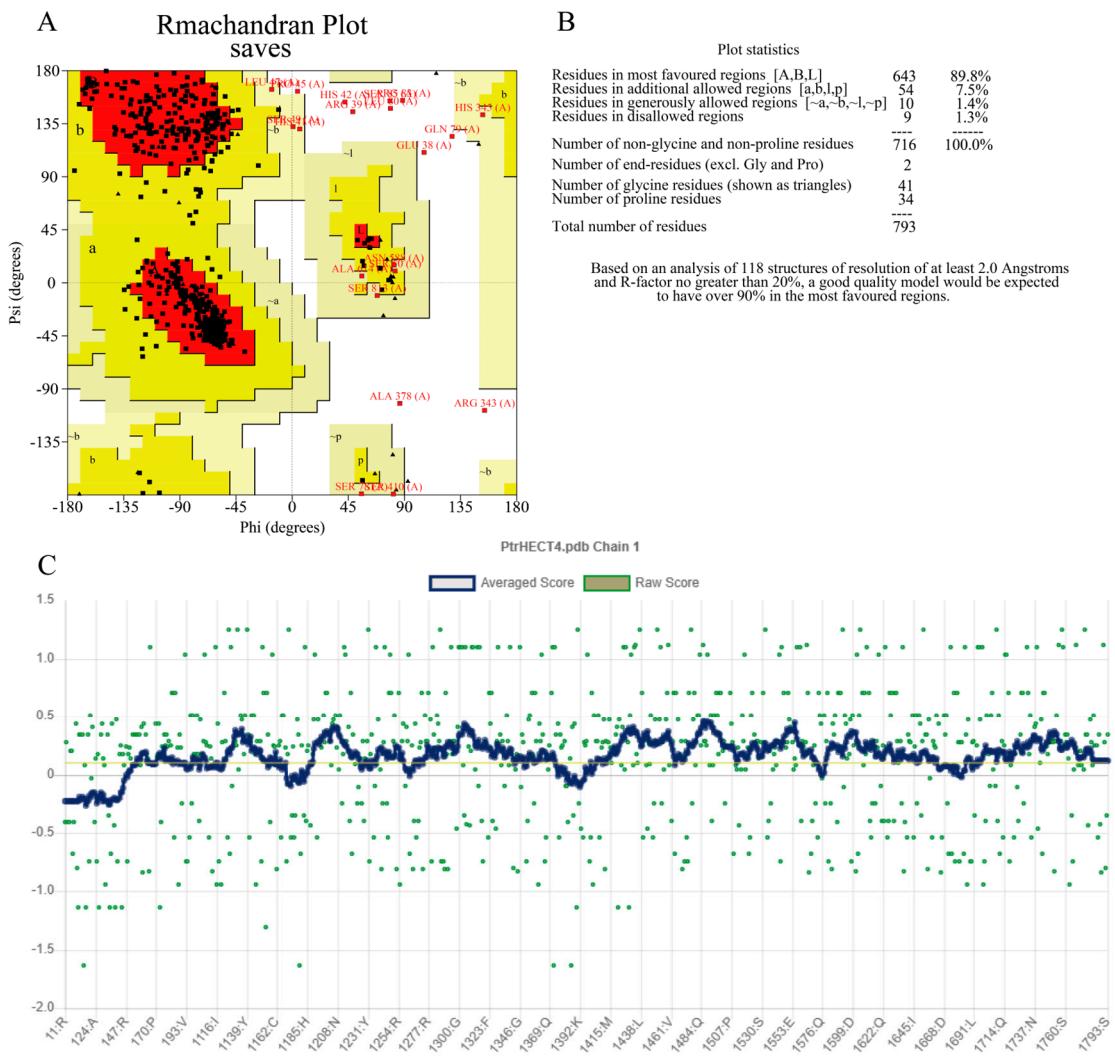
**Supplementary Figure S2.** Homology modelled structure validation of PtrHECT1 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) ERRAT.



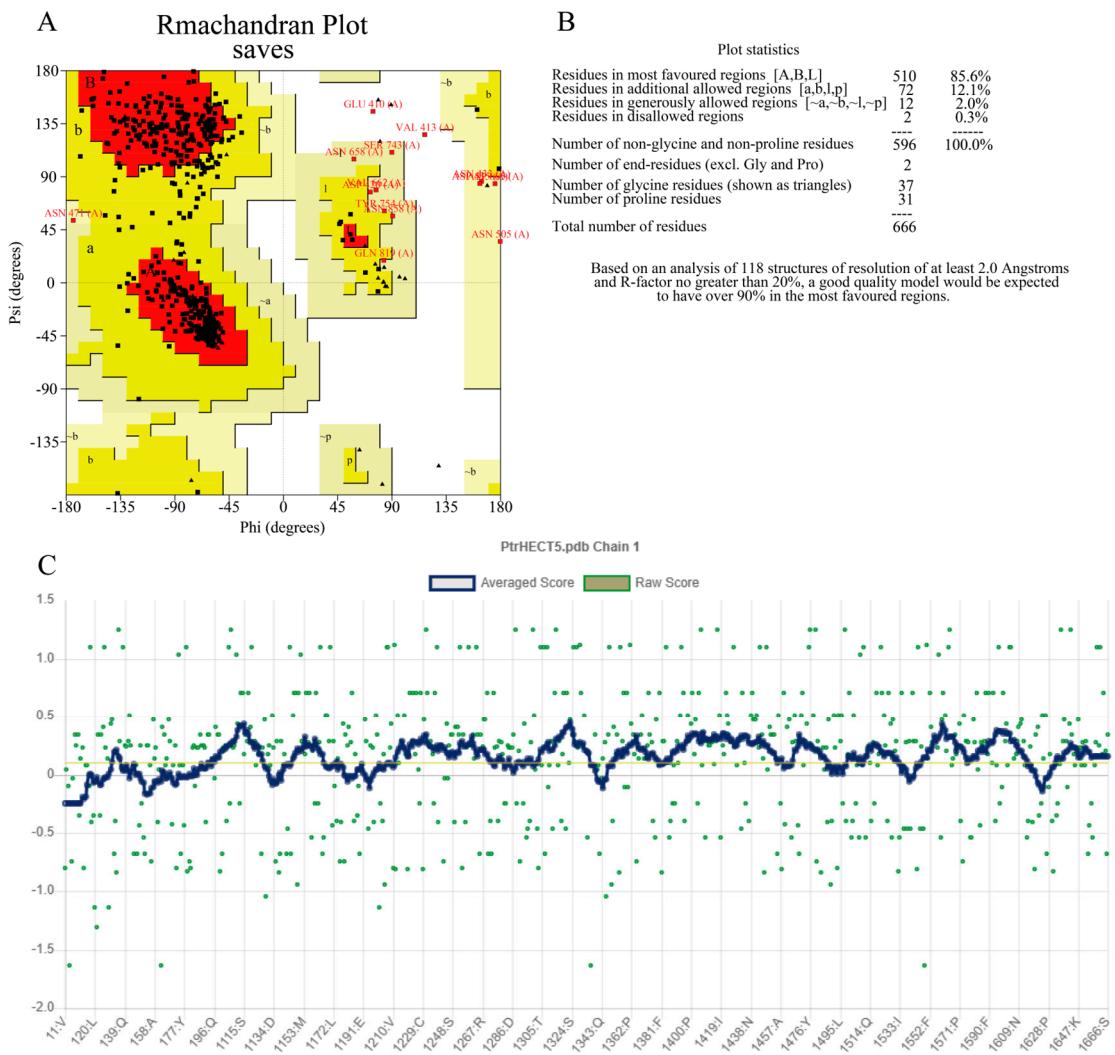
**Supplementary Figure S3.** Homology modelled structure validation of PtrHECT2 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) ERRAT.



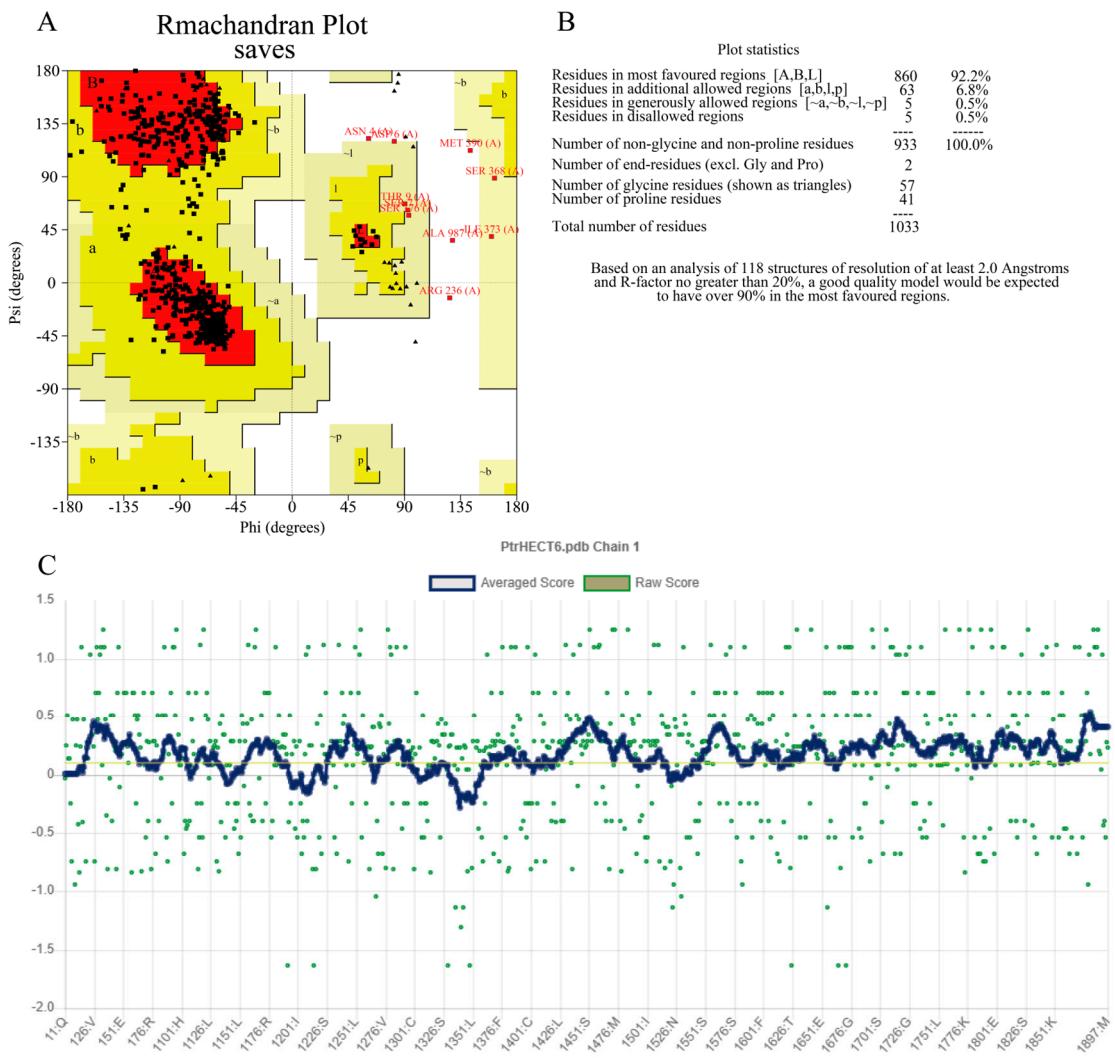
**Supplementary Figure S4.** Homology modelled structure validation of PtrHECT3 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



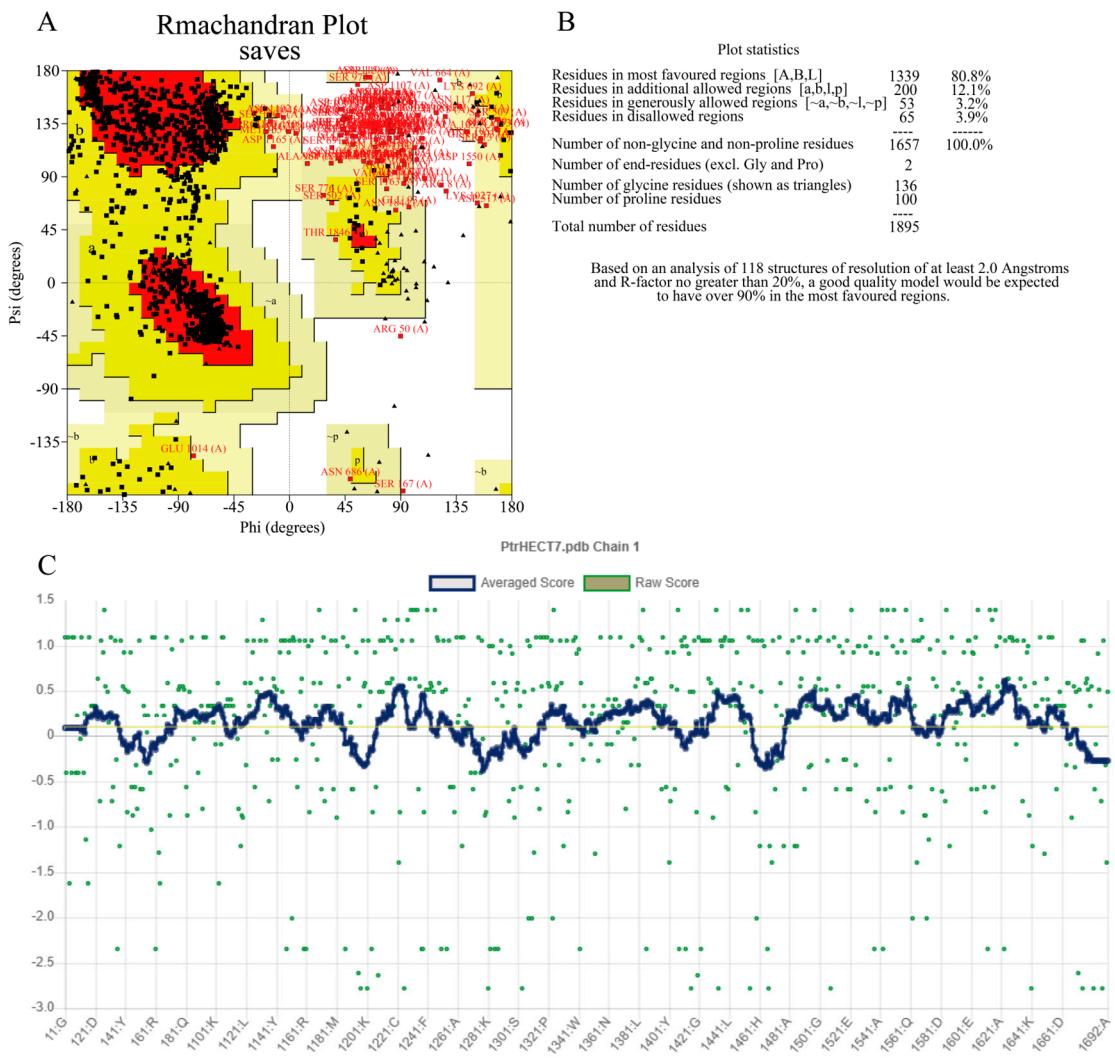
**Supplementary Figure S5.** Homology modelled structure validation of PtrHECT4 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



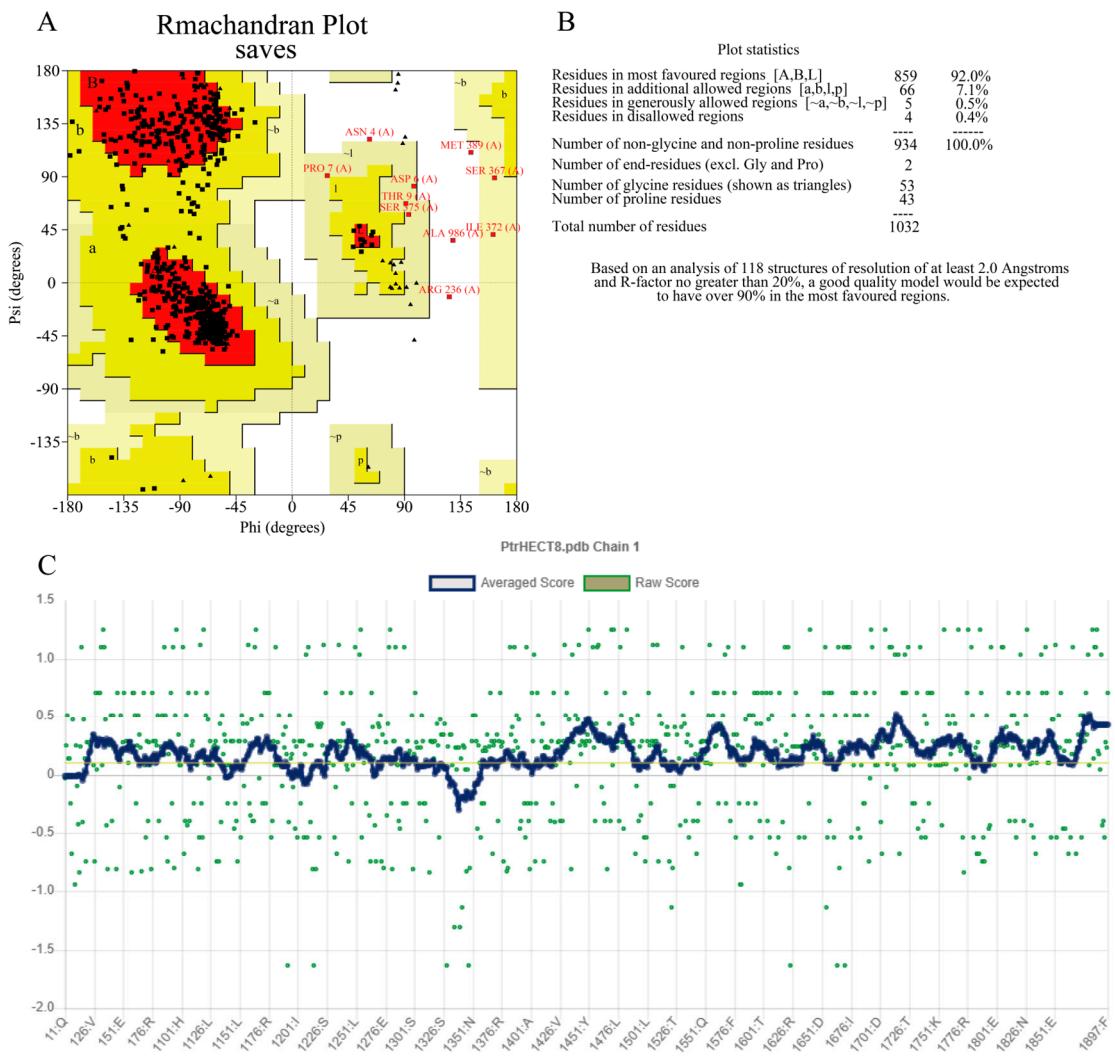
**Supplementary Figure S6.** Homology modelled structure validation of PtrHECT5 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



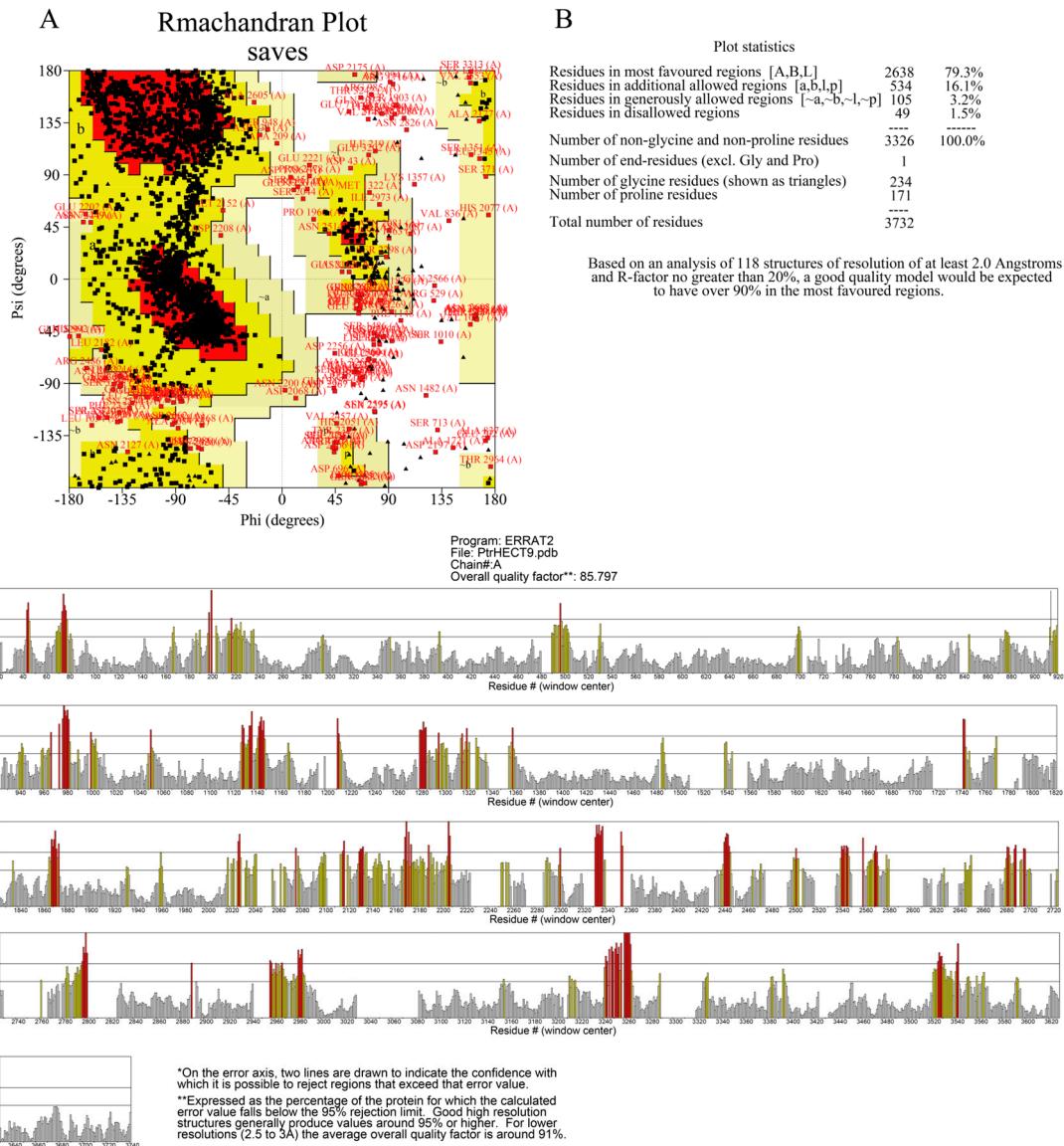
**Supplementary Figure S7.** Homology modelled structure validation of PtrHECT6 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



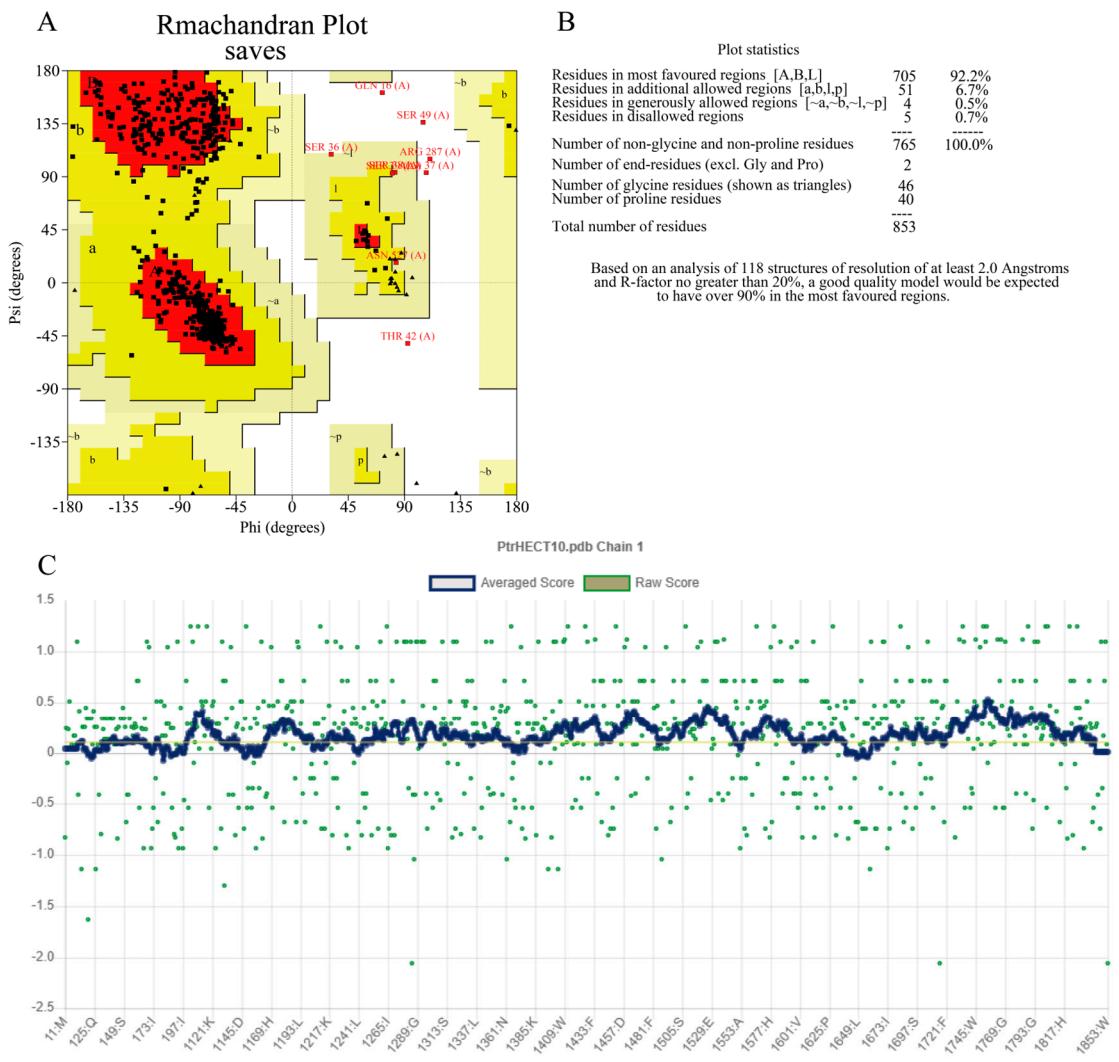
**Supplementary Figure S8.** Homology modelled structure validation of PtrHECT7 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



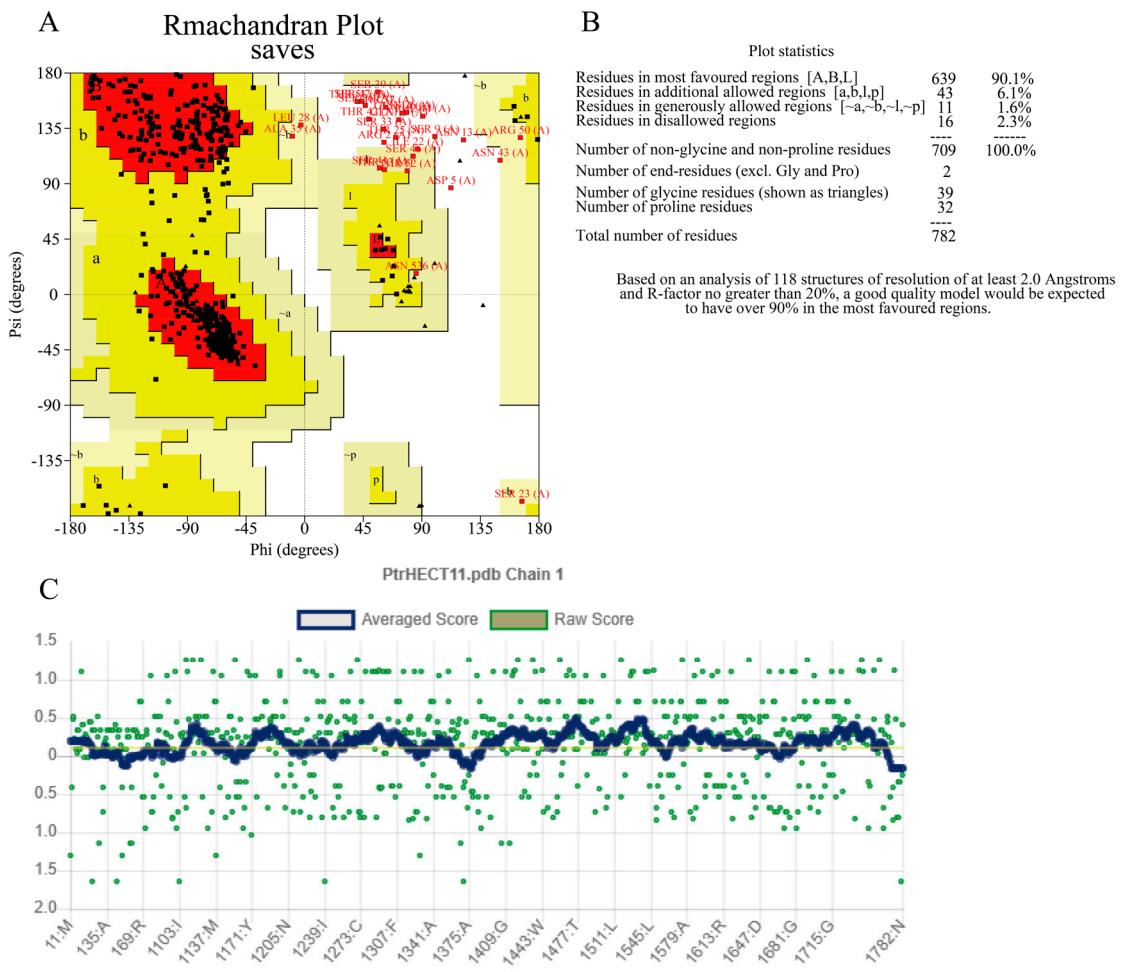
**Supplementary Figure S9.** Homology modelled structure validation of PtrHECT8 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



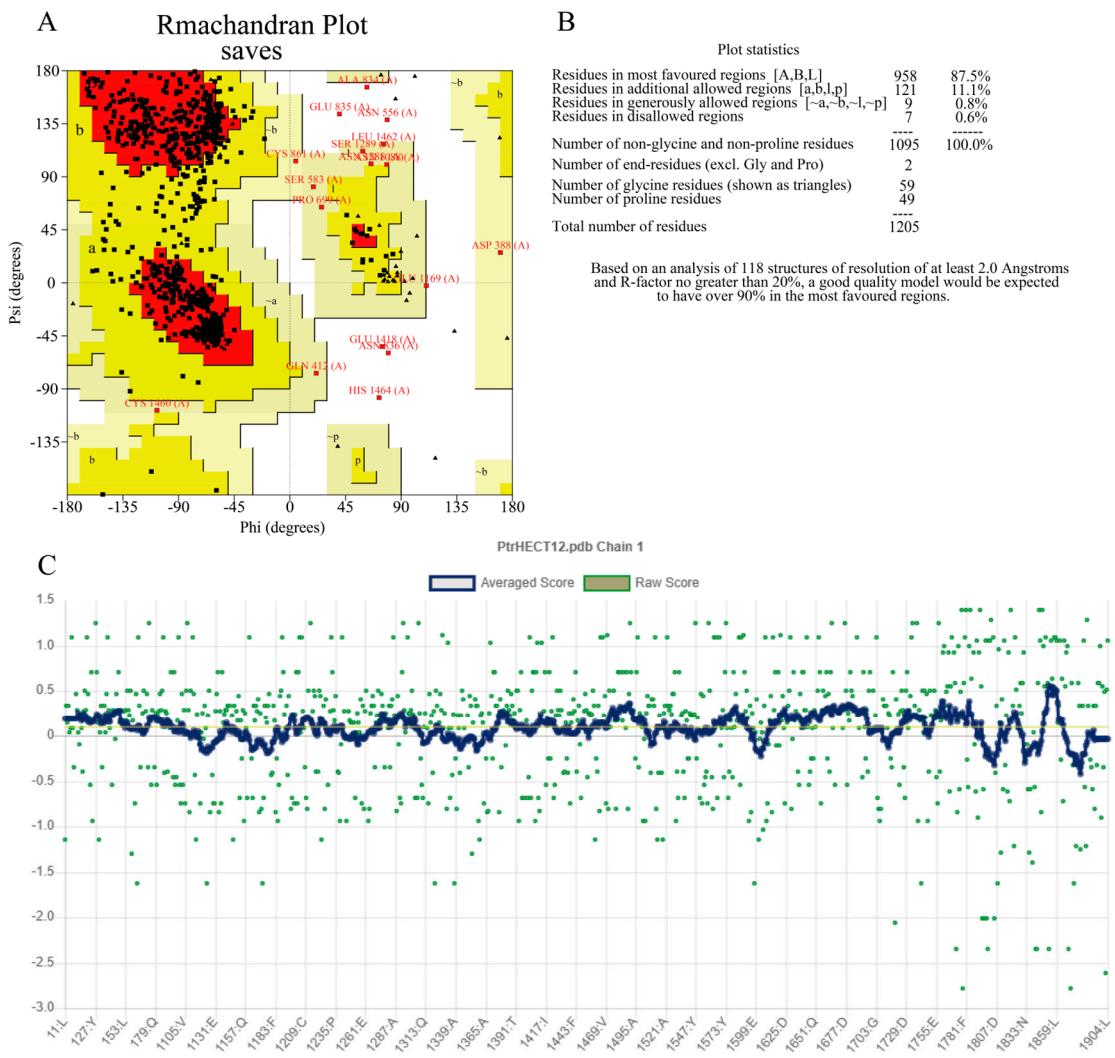
**Supplementary Figure S10.** Homology modelled structure validation of PtrHECT9 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) ERRAT.



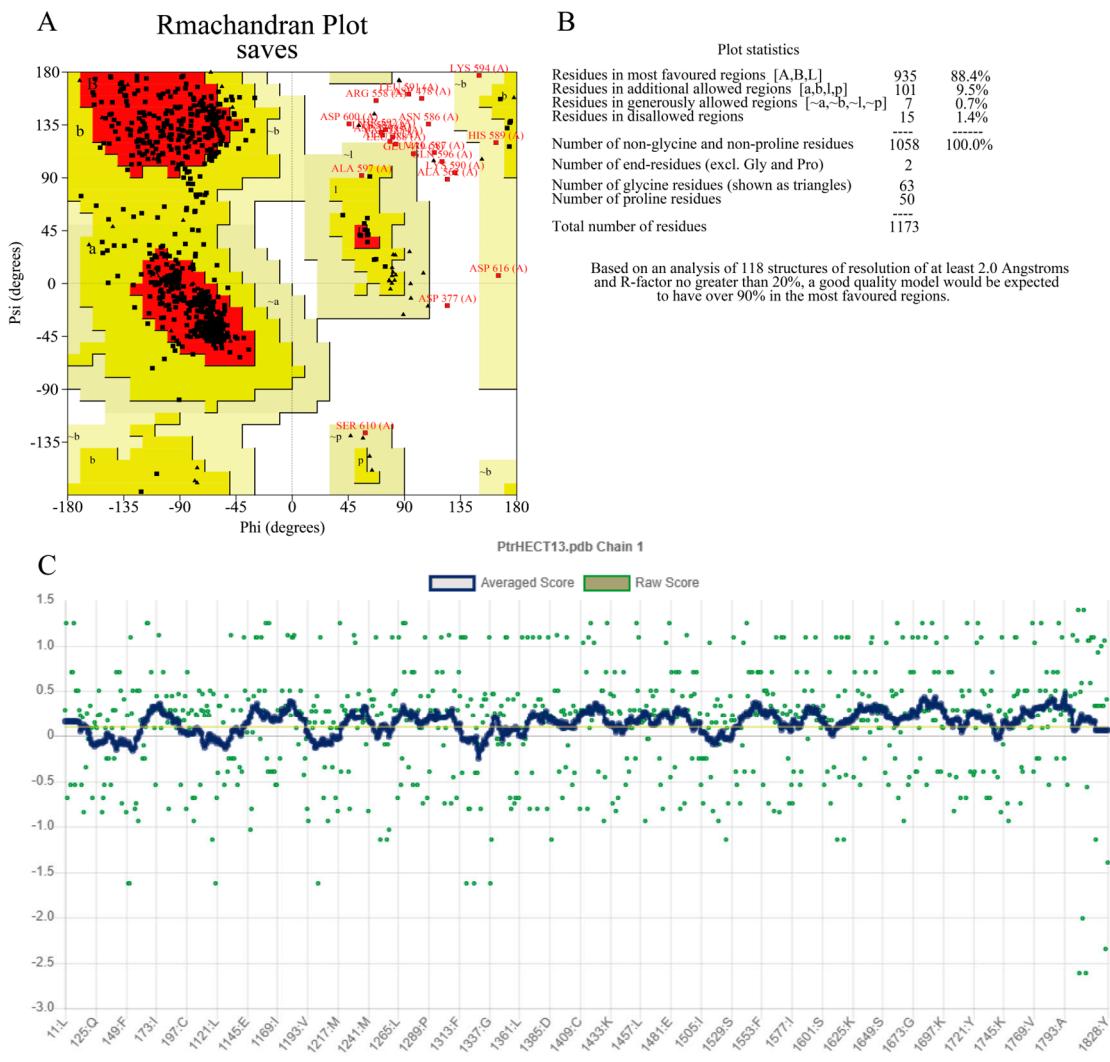
**Supplementary Figure S11.** Homology modelled structure validation of PtrHECT10 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



**Supplementary Figure S12.** Homology modelled structure validation of PtrHECT11 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



**Supplementary Figure S13.** Homology modelled structure validation of PtrHECT12 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.



**Supplementary Figure S14.** Homology modelled structure validation of PtrHECT13 using (A) Ramachandran plot; (B) Ramachandran plot statistics; and (C) Verify3D.