



Supplementary information, Figure S2 TDIF binding induces no obvious conformational changes in PXY. (A) Structural superposition of the PXY^{LRR}-TDIF complex and PXY^{LRR}. Free PXY^{LRR} and TDIF-bound PXY^{LRR} are colored in wheat and sky blue, respectively. (B) Electron density around TDIF in PXY^{LRR}-TDIF complex. The model-phased map "2Fo-Fc" (blue) and the model-phased difference map "Fo-Fc" (green) around TDIF (in yellow) contoured at 1.30 sigma and 2.3 sigma (under COOT), respectively. White dashed circles indicate the hydroxyl groups of TDIF^{Hyp4} and TDIF^{Hyp7}. The hydroxyl groups of Hyp4 and Hyp7 were not included for map calculation. (C) Superposition of the succinic acid observed in ligand-free PXY^{LRR} with TDIF^{Asn12} in PXY^{LRR}-TDIF complex. The succinic acid, TDIF^{Asn12} and its interacting residues are shown in stick.