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Supporting information for article:

Structure of the HECT domain of human WWP2

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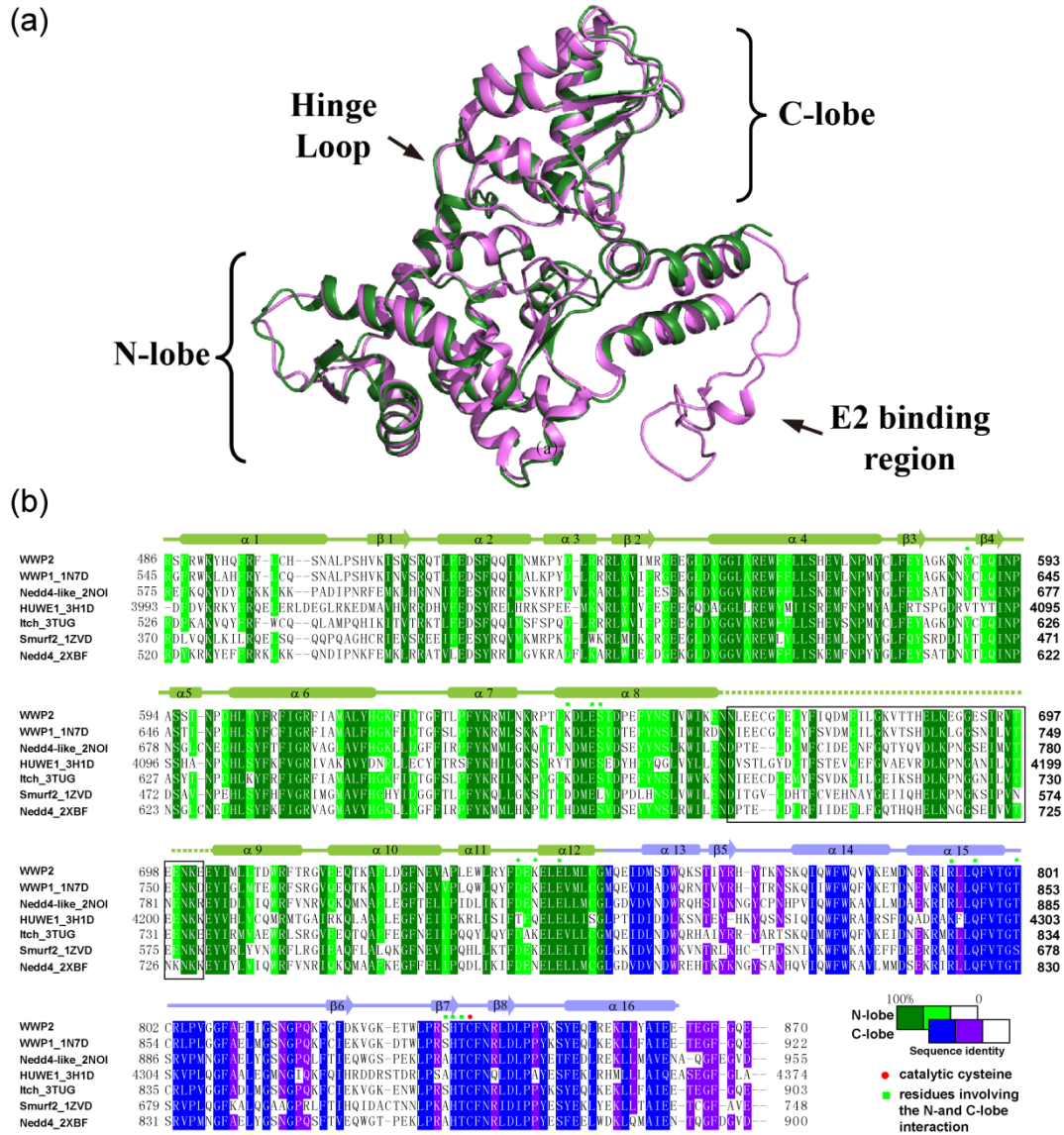


Figure S1 Structural comparison of HECT^{WWP2}(residues 486-865) and HECT^{WWP1} (residues 544-917) and structure-based sequence alignments of HECT-domain E3s in Nedd4 family.

(a). The structures of HECT^{WWP2} and HECT^{WWP1} are colored in green and purple, respectively.

(b). Sequence alignment of the selected HECT-domain proteins of Nedd4 family members. Identical and highly conserved residues are colored in green of N-lobe and blue of C-lobe, conserved residues are colored in forest of N-lobe and purple/blue of C-lobe. E2 binding regions of the Nedd4 family members are shown in the black box. Secondary structural elements of HECT^{WWP2} are indicated above the sequences. Invisible region of HECT^{WWP2} are indicated as dashed line. Residues involved in N- and C-lobe interaction are indicated by green squares and the catalytic cysteine is highlighted by a red circle.

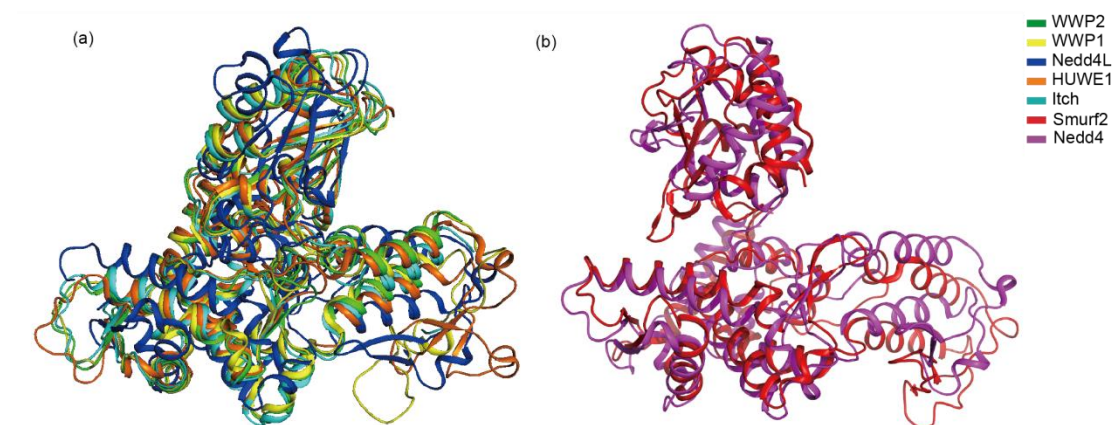


Figure S2 Comparison of HECT domains among Nedd4 sub-family members. (a) Ribbon representations of superimposed structures of HECT domains of WWP2(green),WWP1(PDB entry 1ND7,chainA,yellow), Nedd4L (PDB entry 2ONI, chain A, blue),HUWE1(PDB entry 3H1D,chainA,orange), Itch (PDB entry 3TUG,chain A, cyan). (b) Superimposed structures of HECT domains of of Smurf2 (PDB entry 1ZVD, chain A, red) and Nedd4(PDB entry 2XBF,chain A, magenta).