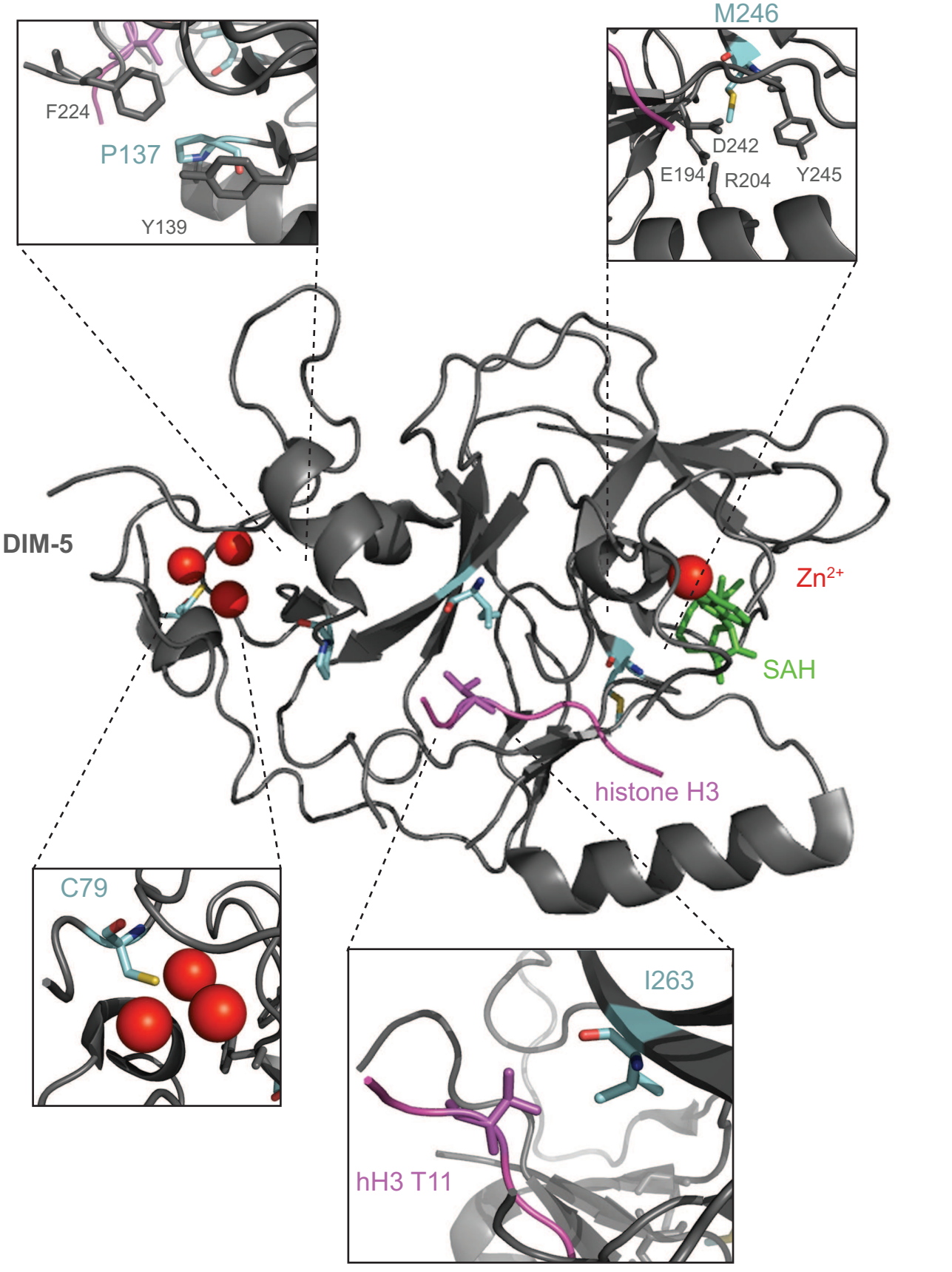

Supplemental Figure 2: Structural analysis of DIM-5 isolated alleles. Previously published crystallographic structure of DIM-5 (gray) bound to the N-terminus of histone H3 (pink) (1PEG) (Zhang et al. 2003), rendered with the visualization software Pymol (www.pymol.org). Both the DIM-5 and hH3 proteins are displayed as cartoon diagrams, with Zn^{2+} ions (red balls) and S-adenosyl homocysteine (SAH; green, ball and stick) also displayed. The normally occurring amino acid side chains found to be mutated in isolated dim mutants are displayed as ball and stick, colored by element, and labeled with light blue text. Zoomed images of these residues are displayed in boxes; gray labels highlight nearby residues that may contact or interact with each wildtype residue.