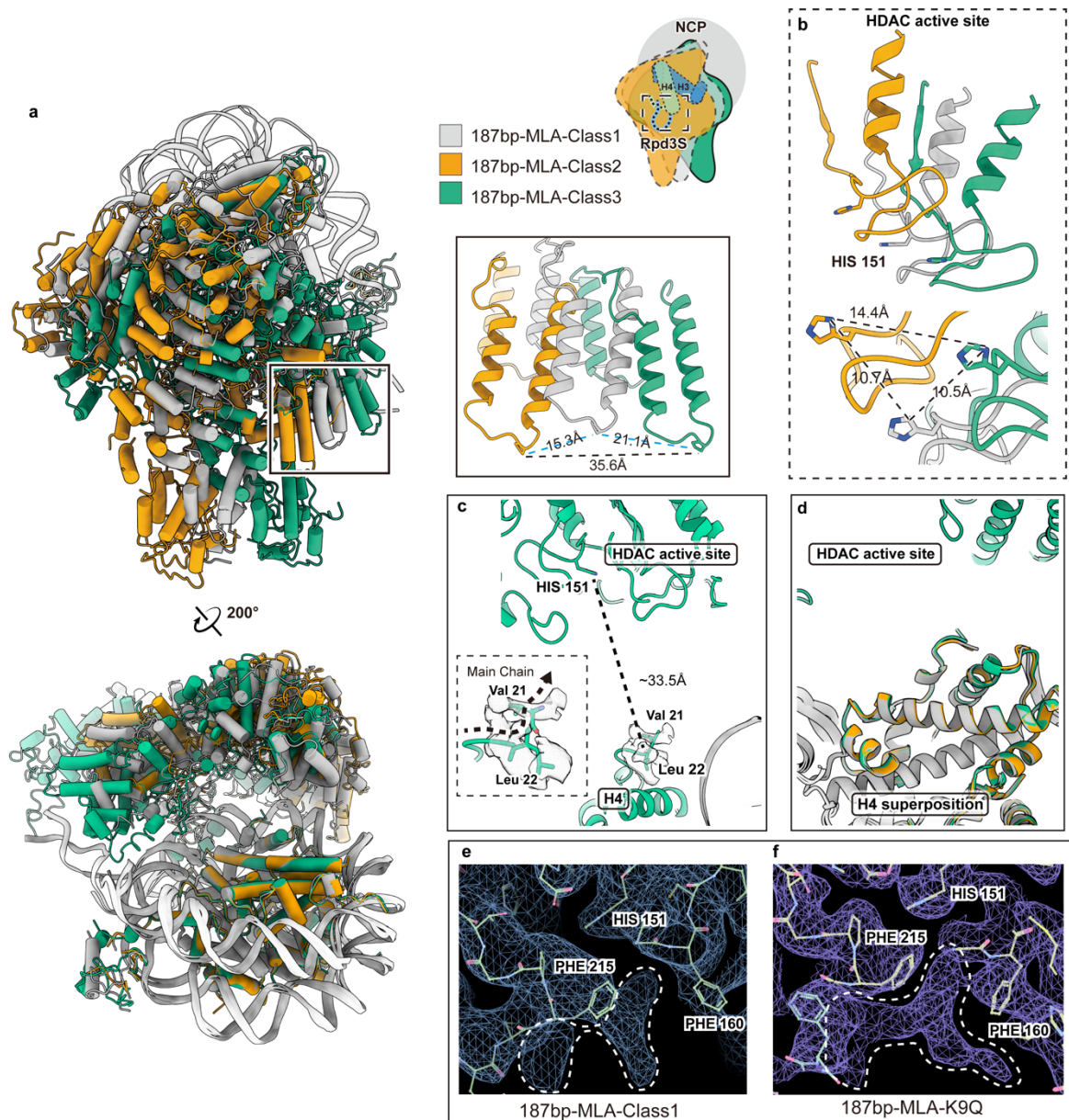




**Supplementary information, Fig. S7. Rpd3S broadly engages the NCP at the SHL+2 position with slight local differential positioning.** **a**, Rpd3S exhibits minor positional shifts of approximately 15-35 Å within various local regions. **b**, the active site of Rpd3 exhibits positional moves of approximately 10~15 Å. **c-d**, Rpd3S is able to target the H4 N-terminal tail. Specifically, the H4 N-terminal main chain of designated 187-MLA-class3 (corresponding density zoomed in) exhibits a distinctive trajectory leading toward the active site of Rpd3. **e-f**, Zoom-in view of the local density around the active site of Rpd3. Densities from a putatively unmodified histone tail (**e**) and H3K9Q tail (**f**) are outlined by dashed lines.