

**S7 Fig. Superimposition of the two solved structures of**  $\Delta N_{123}$ -GBD-CD2. The helix-loop-helix motifs corresponding to residues 2324-2368 are highlighted in light blue (pdb entry: 3ttq) and cyan (pdb entry: 4ttu). The side chains in sticks represent the catalytic residues: the nucleophile D2210 and the acid base E2248. The orange sphere is shown for reference to locate the active site.