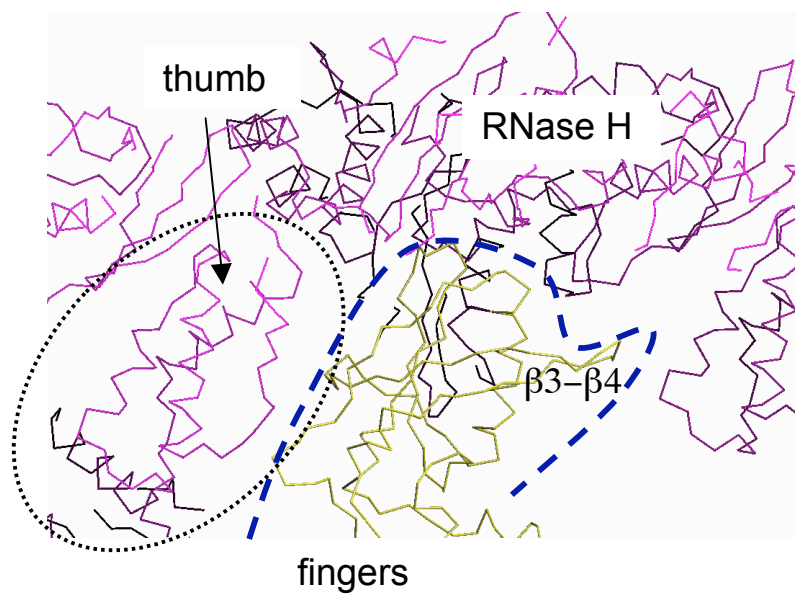


A



B

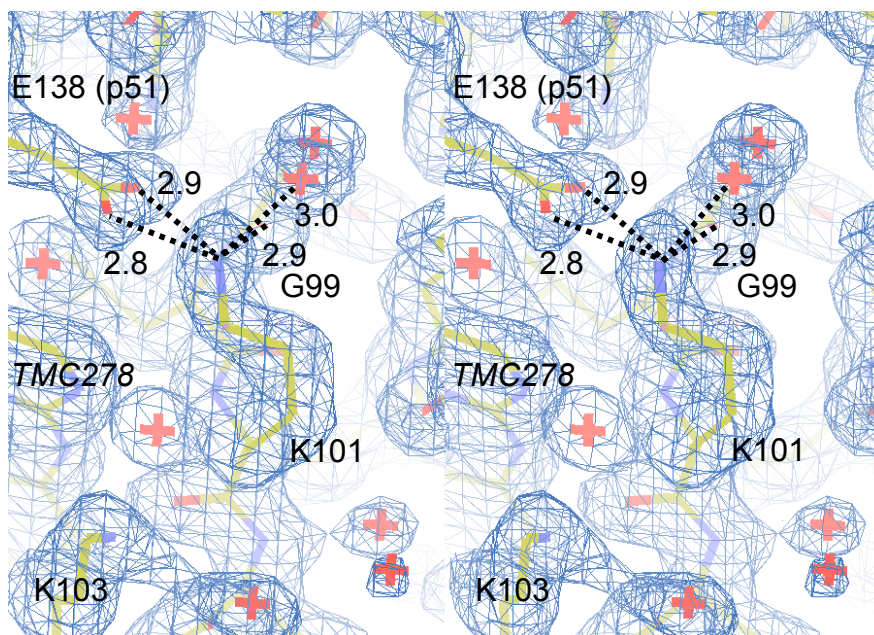


Fig. S2. Stereoview of the region surrounding amino acid residues K101 and K103 of the wild-type HIV-1 RT/TMC278 complex. The electron density map calculated at 1.8 Å resolution demonstrates accurate positioning of the side chains and solvent molecules. A striking feature is that the K101 N ζ atom makes close contacts with four oxygen atoms (represented by dotted lines), including a bifurcated hydrogen bond with the carboxylate oxygens of p51 residue E138.

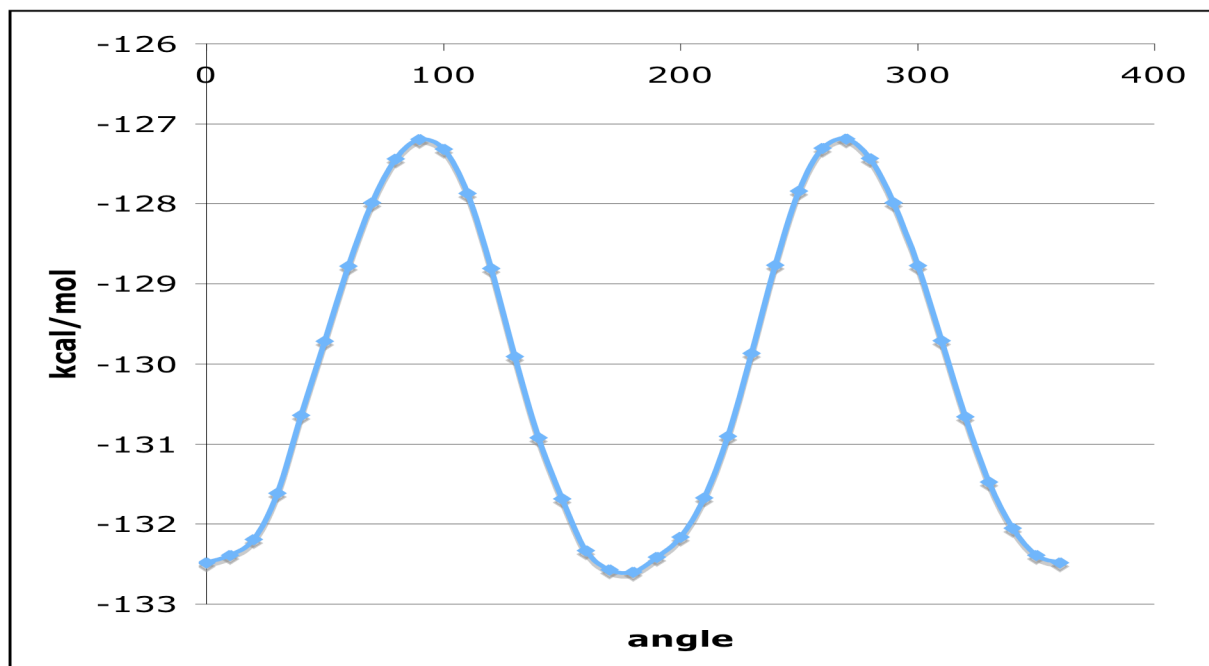


Fig. S3: Plot of total energy calculated for a free TMC278 molecule while varying the torsion angle τ_5 . The conformation of TMC278 molecule from the wild-type RT/TMC278 structure was used as starting model. In the energy minimization, the torsion angle τ_5 was rotated from 0 to 360° in steps of 10° and each conformation was energy minimized keeping other four rotatable torsion angles (τ_1 – τ_4) fixed; the energy minimization was carried out using program MACROMODEL in the software package Schrödinger V8.0 (<http://www.schrodinger.com/>).