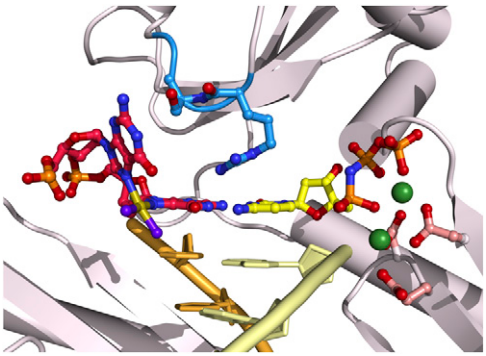
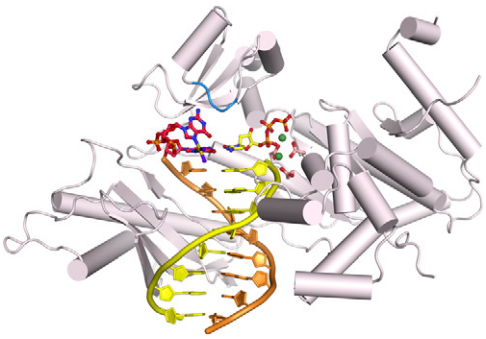
Supporting Information

Zhao et al. 10.1073/pnas.1202681109



Movie S1. Structural changes in hPol η when bypassing Pt-GG. Two alternate conformations of the R61-M63 loop are associated with the stacked-in versus the open structure of Pt-GG when the 3′G serves as a templating base. The protein structure is shown in a ribbon diagram with the R61-M63 highlighted in blue. The peptide bond between R61 and S62 is flipped between two hPol η conformations.

Movie S1



Movie S2. Nucleotide incorporation and product translocation in Pt-GG bypass by hPol η. hPol η is shown in light pink cartoon diagram with the R61-M63 loop highlighted in blue. The ternary complex of Pt-GG1 allows the chemistry and product formation to take place. After release of PPi and metal ions, the DNA in the binary complex as observed in Pt-GG2 translocates, and hPol η binds the incoming nucleotide to form the ternary complex observed in Pt-GG2.

Movie S2

Other Supporting Information Files

SI Appendix (PDF)