Supporting Information



Figure S1. ¹H-NMR and ¹³C-NMR spectra of 3.



Figure S2. ¹H-NMR and ¹³C-NMR spectra of 4.



Figure S3. ¹H-NMR and ¹³C-NMR spectra of 5.



Figure S4. ¹H-NMR and ¹³C-NMR spectra of 7.



Figure S5. ¹H-NMR and ¹³C-NMR spectra of 8.



Figure S6. Time course of the crosslink yields with PNA3b at 37 °C (A) and 50 °C (B).



Figure S7. Molecular modeling of the complex in the PNA**3b**/DNA (**A**) and PNA**3b**/RNA (**B**). Molecular modeling of the complex was performed with MacroMoldel using OPLS2005 in water. These results suggested that AOVP in PNA might form the two hydrogen bonds with a target thymine in DNA and showed higher reactivity by the proximity effect. On the other hand, AOVP in PNA might not form the hydrogen bond with a target uracil in RNA. Thus, PNA**3b** might exhibit the higher reactivity with DNA than RNA.