Supplementary Information for Guanine–aspartic acid interactions probed with IR–UV resonance spectroscopy

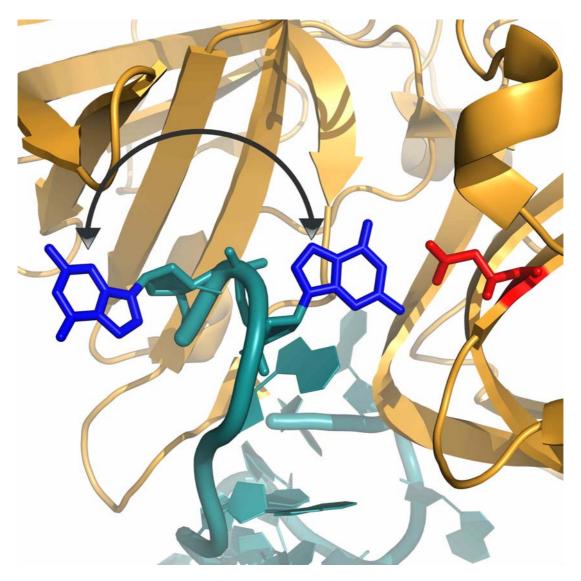


Figure S1. Picture of interaction between guanine and aspartic acid in pdb 1JB7. Guanine can adopt two different positions suggesting that it could serve as a molecular recognition agent.

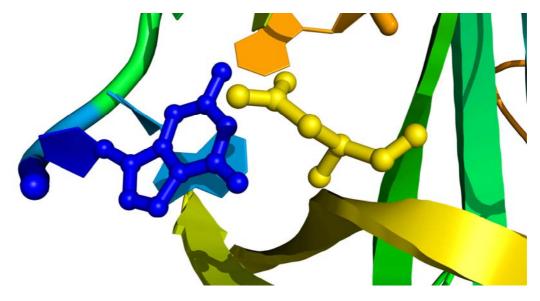


Figure S2. Sample interaction of aspartic acid and guanine in structure 1QZG. In this structure aspartic acid interacts via both the COOH and the C=O group, similarly to structures we obtained in vacuo.

1-D potential energy scans of hydrogens in 9KN

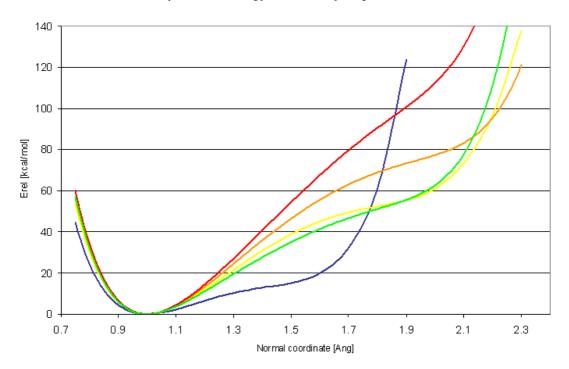


Figure S3: One-dimensional potential energy scans of 5 hydrogens in 9KN. Colours of individual scans corresponds to 9KN structure colouring in figure 3 in the text: red curve corresponds to N9H on guanine, yellow to N3HHB on guanine, orange to the NH₂ symmetrical stretch on guanine, blue to COOHHB on the R group of the aspartic acid and green to COOH on the C-terminus of the aspartic acid.