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Supplementary Material

Assembly of DNA Recognition Elements on an Octahedral Rhodium Intercalator:

Predictive Recognition of 5'-TGCA-3' by Δ -[Rh[(R,R)-Me₂trien]phi]³⁺

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Figure 1S. Autoradiogram of an 8% denaturing polyacrylamide gel after photocleavage of the 5'-[³²P]-labeled EcoRV/EcoO109I fragment of SV40 DNA: lanes 1 and 2, Maxam-Gilbert A+G and C+T reactions, respectively; lane 3, untreated fragment; lane 4, fragment irradiated in the absence of rhodium complex; lanes 5-10, fragment irradiated in the presence of Δ -[Rh(en)₂phi]³⁺, Δ -R, Δ -S, Λ -[Rh(en)₂phi]³⁺, Λ -S, and Λ -R, respectively. Part of the sequence containing preferred cleavage sites is shown to the right. Strong sites of cleavage for Δ -R correspond to sequences containing ≥ 3 bases within the sequence 5'-TGCA-3'. Irradiations were conducted using a HeCd laser at 325 nm for 20 min. Samples contained 100 nM rhodium and 1 μ M base pairs in 5 mM Tris, 50 mM NaCl, pH 7.0.

