



**Figure S2.** Results of fluorescence anisotropy experiments with methylated DNA. CpG (black bars) or 5-methyl-CpG (red bars) dinucleotide was systematically substituted into the reference sequence at position 1-10 of the first half site. The CpG position refers to the position of the C in the first half of the p53 binding sequence GGACATGTCC. The difference in affinity relative to the unmethylated non-methylated reference sequence is shown ( $\Delta\log K_d = \log K_d(i) - \log K_d(\text{ref})$ ). The  $\log K_d$  of the reference sequence GGACATGTCCGGACATGTCC, flanked by CGC triplets was -7.55. For more details of the method see reference [20].