Figure S1. Full-length wild-type p53 binds MYC G-quadruplex Pu33 with affinity comparable to P1-30 sequence containing p53CON.

(A) Binding of wt-p53 to MYC G-quadruplex Pu33 was compared with P1-30 oligonucleotide containing p53CON and non-specific A25 sequence by EMSA. Oligonucleotides A25 (0.25 pmol, lanes 1 – 5), Pu33 (1 pmol, lanes 6 – 10) and P1-30 (0.25 pmol, lanes 11 – 15) were incubated with wt-p53 (50, 100, 200, 400 ng per 1 pmol of oligonucleotide) in the presence of 20 ng (per 1 pmol of oligonucleotide) of non-specific competitor pBSK/EcoRV. (B) CD spectra of Pu33 oligonucleotide measured in 5 mM Tris pH 7.6 (dotted line) and after addition of 10 mM KCl (dashed line) and 50 mM KCl, respectively (solid line). (C) CD spectra of G-rich MYC promoter oligonucleotide Pu33 in 5 mM Tris pH 7.6 (black line), 50 mM KCl (red line), after addition of wt-p53 in protein:DNA molar ratio 1:1 (violet line), 4:1 (blue line) and 4:1 after 24 h incubation (green line).

Figure S2. Wild-type p53 stabilizes MYC promoter G-quadruplex. CD spectra of G-rich MYC promoter oligonucleotides Pu52 (A) and Pu22 (B) in 5 mM Tris pH 7.6 (black line), 50 mM KCl (red line), after addition of wt-p53 in protein:DNA molar ratio 1:1 (violet line), 4:1 (blue line) and 4:1 after 24 h incubation (green line).
Figure S1