## **Supplementary File 1**

Sequences of oligonucleotides used in the work

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| **Name** | **Sequence 5' to 3'** | **Description** | **Source** |
| **Primers for construction of Δ133p53 and Δ160p53 with FLAG-tag expression plasmids** |
| Δ133p53-FLAG fw | CTAGCTAGCCACCATGTTTTGCCAACTGGCCAAG | Δ133p53- FLAG | This work |
| Δ160p53-FLAG fw | CTAGCTAGCCACCATGGCCATCTACAAGCAGTCA | Δ160p53- FLAG | This work |
| Δ133/160p53-FLAG rev | CCGGAATTCTTATTTATCGTCATCGTC | Δ133/160p53- FLAG | This work |
| **Primers for construction of FLp53 and its two isoforms with V5-tag expression plasmids** |
| FLp53-V5 fw | CCGGAATTCGCCACCATGGAGGAGCC | FLp53-V5 | This work |
| FLp53-V5 rev | CCGCTCGAGGTCTGAGTCAGGCCCTTCTG | FLp53-V5 | This work |
| Δ133p53-V5 fw | CCGGAATTCGCCACCATGTTTTGCCAACTGGCCAAG | Δ133p53-V5 | This work |
| Δ160p53-V5 fw | CCGGAATTCGCCACCATGGCCATCTACAAGCAG | Δ160p53-V5 | This work |
| **Primers for construction of untagged proteins expression plasmids** |
| FLp53 fw | CTAGCTAGCCACCATGGAGGA | FLp53 | This work |
| FLp53 rev | CCGGAATTCTTAGTCTGAGTCAGGCCCTTCT | FLp53 | This work |
| Δ133p53 fw | CTAGCTAGCCACCATGTTTTGCCAACTGGCCAAG | Δ133p53 | This work |
| Δ160p53 fw | CTAGCTAGCCACCATGGCCATCTACAAGCAG | Δ160p53 | This work |
| **Primers for construction of Bax-Luc expression plasmids** |
| baxP fw | CCGCTCGAGGCTTCAGCCCGGGAAT | BAX promoter | This work |
| baxP rev | CCCAAGCTTAGCTCTCCCCAGCGCAGA | BAX promoter | This work |
| **Primers for ChIP-qPCR assay** |
| p21 5`RE fw | AGCAGGCTGTGGCTCTGATT | p53 5`RE ofp21 promoter | (Laptenko et al., 2011) |
| p21 5`RE rev | CAAAATAGCCACCAGCCTCTTCT | p53 5`RE ofp21 promoter | (Laptenko et al., 2011) |
| MDM2 fw | TCAAGTTCAGACACGTTCCGAA | p53 RE ofMDM2 promoter | (Laptenko et al., 2011) |
| MDM2 rev | CTGGGAAAATGCATGGTTTAAATA | p53 RE ofMDM2 promoter | (Laptenko et al., 2011) |
| PUMA fw  | TCAGTGTGTGTGTCCGACTGTC | p53 RE ofPUMA promoter | (Laptenko et al., 2011) |
| PUMA rev | GGCAGGGCCTAGCCCA | p53 RE ofPUMA promoter | (Laptenko et al., 2011) |
| Bax fw | AGGCTGAGACGGGGTTATCT | p53 RE ofBAX promoter | This work |
| Bax rev | CAAGTGCAAAAGCTCAGAGG | p53 RE ofBAX promoter | This work |

Reference

Laptenko, O., Beckerman, R., Freulich, E., and Prives, C. (2011). **p53 binding to nucleosomes within the p21 promoter in vivo leads to nucleosome loss and transcriptional activation**. *Proceedings of the National Academy of Sciences of the United States of America* **108:** 10385-10390.