

Supplemental Material to:

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**Transcriptional regulation of thymine DNA glycosylase
(TDG) by the tumor suppressor protein p53**

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Figure 1: Purified human TDG probed with TDG primary antibody and total protein extract from TE-1 cells probed with TDG primary antibody and SUMO-1 antibody.

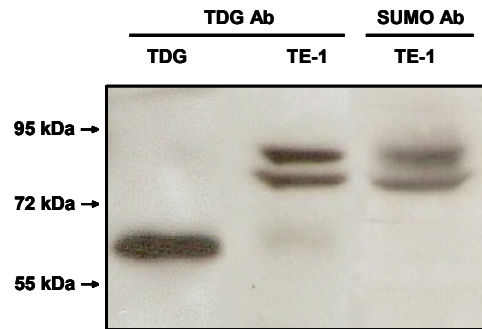


Figure 2: Binding of p53 to *p21/WAF-1* promoter by Chromatin Immunoprecipitation (ChIP) assay.

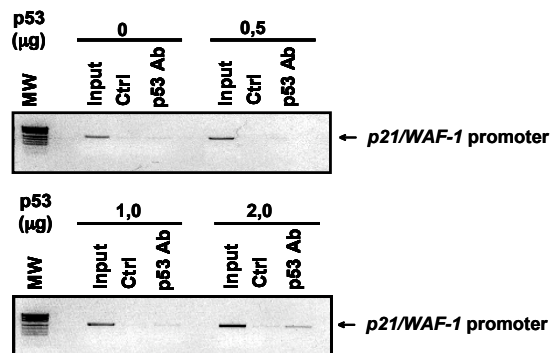


Table 1: Sequences of the oligonucleotides used for *TDG*, *TP53* and *GAPDH* amplification by Real-time quantitative RT- PCR (qRT-PCR).

	Forward	Reverse
<i>TDG</i>	5'AAGATGTGCTCAGTTTCCTCG3'	5'TAACAGCCATCTTCTTTGC3'
<i>TP53</i>	5'CCTATGGAACTACTTCCTG3'	5'AGGGGAGTACGTGCAAGT3'
<i>GAPDH</i>	5'CCGGGAACTGTGGCGTGATGG3'	5'CCGGGAACTGTGGCGTGATGG3'

Table 2: Antibodies used for TDG, p53, SUMO-1 and Ku-80 detection by Western blotting.

	Antibody	Concentration	Manufacturer
TDG	produced against TDG peptide KEEKYDPGYEAA	1/5000	Dauids Biotechnologie, UK
P53	DO-7	1/4000	Dako, Cambridgeshire, UK
SUMO-1	SUMO-1/FL-101	1/1000	Santa Cruz Biotechnology, CA, USA
Ku-80	Ku-80	1/10000	Abcam

Table 3: Sequences of the oligonucleotides used for amplification of p53REs contained in *TDG* promoter region by PCR.

	Forward	Reverse
p53RE1	5'GGTACCACCAGCACCAGAGCAATG3'	5'GAGCTCAGTCTTACAGCAGGTGGC3'
p53RE2/p53RE3	5'GGTACCGGCTGCTCTGAGGGTTAC3'	5'GAGCTCTGGCTCACATTTGTAATCCT3'

Table 4: Sequences of the mutagenic oligonucleotides used for deleting p53RE2 and p53RE3 by site-directed mutagenesis.

	Forward	Reverse
p53RE2	5'GGCCTGTTTCATGTCTGTAAAGTA GAATTGGTGTTACATGAAAGG3'	5'CCTTTCATGTAACACCAATTCTA CTTTACAGACATGAACAGGCC3'
p53RE3	5'GTATTTTTAGTAGAGACAGG GTTTTCCACCTGCCTCGGCC3'	5'GCCGAGGCAGGTGGAAAAC CCTGTCTCTACTAAAATAC3'.