

<b>gene</b>	<b>Primer sequence</b>
DDB2-up	GGGGCTCCAGCAGTCCTTTTT
DDB2-low	GGGCCACATGCGTCACTTTCTTTT
XPC-up	CTTTGATTTCCATGGCGGCTACTC
XPC-low	GCTGCTGCTTTCTTTTCCCTTTTG
XPF-up	TCCCGTGCTTCTGATTGAGTTTGA
XPF-low	AGGGCTGCTAATTCTGCGATGTTC
XPG-up	AAGAAGCAGCAGCCAGCGAAATAG
XPG-low	AAACACAGATCTGGCGGTCACGAG
POLH-up	CTGCCTCTGCCCCTTCATCTTCTACA
POLH-low	TTGGATTTGGGGTTGCTTTCTGAGTC
p21-up	GTGGGGGCATCATCAAAACTT
p21-low	CTCCCCCATCATATACCCCTAACA
gapdh-up	GGTGAAGAGTGGGAGTTGCTGTTGA
gapdh-low	CCCCTCTGGAAAGCTGTGGCGTGAT

**Suppl. Table. 1A: Endpoint-PCR Primers**

<b>gene</b>	<b>Primer sequence</b>
gapdh-real-up	CATGAGAAGTATGACAACAG
gapdh-real-low	ATGAGTCCTTCCACGATA
$\beta$ -actin-real-up	TGGCATCCACGAAACTACC
$\beta$ -actin-real-low	GTGTTGGCGTACAGGTCTT
POLH-real-up	ATCTTCTACTGGCACAAG
POLH-real-low	ACATTATCTCCATCACTTCA
P21-real-up	TACATCTTCTGCCTTAGT
P21-real-low	TCTTAGGAACCTCTCATT
CSA-real-up	GGATTGAAATTCACGTCT
CSA-real-low	TTATCTGTTCTCCTGAGTAA
CSB-real-up	GAAGAAGCAAGGTTGTAA
CSB-real-low	CTTTCTTGTTTGGTTTGT
DDB1-real-up	GTCACTCTCAAGGATCTC
DDB1-real-low	AACACAACACCATTATCAAG
DDB2-real-up	TGTAGCCTGGATGTGTTCT
DDB2-real-low	GCATTCTGAGATTCCAAAGC
XPA-real-up	AAGGAAGTCCGACAGGAA
XPA-real-low	ACACGCTGCTTCTTACTG
XPB-real-up	CAGTGACATCACCGAGTA
XPB-real-low	GCTGACAGTACACAACCTAA
XPC-real-up	ACACCTACTACCTCTCAA
XPC-real-low	TAAATAGCAAATCTCCTTTCC
XPD-real-up	AGAGATTGAGAAGGTGATTGAAG
XPD-real-low	AGAGCCAGTCCCAGAAAC
XPF-real-up	GGTTGACTTCTTGACTGATA
XPF-real-low	AGATGAATGCTTCTTGACA
XPG-real-up	CAGTTCAGAAGAGGAAGATG
XPG-real-low	TCTATCGCTTGAGGATTATGA
POLH-ChiP-up	GAGCTCGAGAAATCAAGGCT
POLH-ChiP-low	AAATCTGGAACCATCACGCT

**Suppl. Table. 1B: qRT-PCR Primers**

<b>Epitope</b>	<b>Antibody</b>
XPF	ab-5 (clone 51, NeoMarkers, Thermo Fisher Scientific)
XPG	sc-13563 (8H7, Santa Cruz Biotechnology)
$\beta$ -Actin	sc-47778 (C4, Santa Cruz Biotechnology)
HSP90	sc-13119 (F-8, Santa Cruz Biotechnology)
POLH	ab17725 (Abcam, Cambridge, UK)
p53	sc-100 (Pab 246, Santa Cruz Biotechnology)
DDB2	Kind gift from Vesna Ropic-Otrin, University of Pittsburgh, Cancer Institute
XPC	ab6264 (Abcam Cambridge, UK)
p53-Ser15	#9286 (Cell Signaling Technology)
p53-Ser46	#2521 (Cell Signaling Technology)
p21	ab7960 (Abcam, Cambridge, UK)
NOXA	ab13687 (Abcam, Cambridge, UK)
$\gamma$ H2AX-Ser139	JBW301 (Millipore) for IF
$\gamma$ H2AX-Ser139	#05-164 (Upstate) for WB
c-FOS	sc-52 (Santa Cruz Biotechnology) for EMSA
c-JUN	sc-45 (Santa Cruz Biotechnology) for EMSA
pc-FOS	#5348S (Cell Signaling Technology)
pc-JUN	#3270S (Cell Signaling Technology)

**Suppl. Table. 2: Antibodies**