Supplemental Table 1: *p21* primers employed in the study. **A.** RT-qPCR primers used for mRNA detection. **B** Standard ChIP primers. **C.** Nucleosome ChIP primers

A.

p21 mRNA Primer (5' – 3')	Forward: GGAGACTCTCAGGGTCGAAA
	Reverse: GGATTAGGGCTTCCTCTTGG

B.

Primer Name	Primer Position	Sequence (5' – 3')
p21-E	-2525	ACATTGTTCCCAGCACTTCC
		TAGGGGAATGGTGAAAGGTG
p21-F	-2292	CTGTGGCTCTGATTGGCTTT
		CTCCTACCATCCCCTTCCTC
p21-G	-2073	GGATCTGATGCATGTGTGCT
		CAAGGGAGCAGGCTGTTAAA
p21-L	-1034	TTGTCATTTTGGAGCCACAG
		GGGCTCAGAGAAGTCTGGTG
p21-M	-695	CTCTCCAATTCCCTCCTTCC
		TAGGTGCTGGAGGTGCTTCT
p21-N	-345	GGGGCTCATTCTAACAGTGC
		GACACATTTCCCCACGAAGT

C.

Primer Position	Sequence (5'- 3')	Product size (bp)
-2925 / -2793	TGCTAGGAACATGAGCAAACTG CCCGAGTAGCTGGGATTACA	133
-2668 / -2560	GGCTGCCTCTGCTCAATAAT ATAGGGGCAGTCAGCTTTCA	109
-2625 / -2505	TCTGGGGTCTCACTTCTTGG AGGAAGTGCTGGGAACAATG	121
-2557 / -2457	GGGACTCCCCAGTCTCTTTC ATGTGAGGAAGGCTCAGTGG	101
-2525 / -2412	ACATTGTTCCCAGCACTTCC TAGGGAATGGTGAAAGGTG	114
-2470 / -2364	AGCCTTCCTCACATCCTCCT GACAAGAGTGCCCAGTCCAG	107
-2436 / -2322	CCTTTCACCATTCCCCTACC AGGCAGCATAGGGATGGAG	115
-2377 / -2248	CTGGACTGGGCACTCTTGTC GTTGGGACATGTTCCTGACG	130
-2292 / -2196	CTGTGGCTCTGATTGGCTTT GCAGCCCAAGGACAAAATAG	97
-2249 / 2164	CATGTTGAGCTCTGGCATAGA TCTCCTACCATCCCCTTCCT	86
-2198 / -2092	GCCTGTTTTCAGGTGAGGAA CTGCTGGCAGATCACATACC	107
-2178 / -2048	AGGGGATGGTAGGAGACAGG ACACAAGCACACATGCATCA	131
-2068 / -1925	CTGATGCATGTGTGCTTGTG AGTTTGCAACCATGCACTTG	145
-1984 / -1848	GGGCAGAAGTCCTCCCTTAG CTCACCACCACCACGACAT	137