| | Forward | Reverse |
|--------------------------|--|--|
| q-PCR | | |
| Nucleolin | 5'-ACTGACCGGGAAACTGGGTC-3 | 5'-TGGCCCAGTCCAAGGTAACT-3' |
| GAPDH | 5'-GATTCCACCCATGGCAAATTC- 3' | 5'- AGCATCGCCCCACTTGATT-3' |
| E2F2 | 5'-ACAAGGCCAACAAGAGGCTG- 3 | 5'-TCAGTCCTGTCGGGCACTTC-3' |
| c-myc | 5'-CAGTGGGCTGTGAGGAGGTT-3 | 5'-CAGGCTCCTGGCAAAAGGT-3' |
| miR-185-3p | 5'-ACACTCCAGCTGGGTGGAGAG AAAGGCAGT-3' | 5'-ACTGACTGATGCAATCTCAACT GGTGTCGTGGA-3' |
| ChIP-PCR | | |
| 5s rDNA | 5'-ACGGCCATACCACCCTGAA-3' | 5'-GCCAAAGAAAAAGCCTACAGC A-3' |
| miR-185 | 5'-CCCCTCCAGGCTCACCTT-3' | 5'-TGTGTGCTCTGCAGCTGTGAT-3 |
| miR-185 ct | 5'-TGAGCCTCACGACGCACAT-3' | 5'-TGGAGCACATAGGGACTTGGT-3 |
| Constructs | | |
| pGL3-miR-185 | 5'-CGGGGTACCACTTATACTACCC AGTCATTAAGAC-3' | 5'-CCGCTCGAGACAGCCCAGAAG CATCTGAACATCT-3' |
| pGL-miR-185 CT | 5'-CGGGGTACCGCACTTGCTGAC ATTTGGGGGGTACA-3' | 5'-CCGCTCGAGAGGGGCAAGAACC CAAGAGTCACTTG-3' |
| pSIF-miR-185-3p | 5'-GATCCGATTGGAGAGAAAGGC AGTTCCTGATGGTCCCCTCCCC | 5'-AATTCAAAAAGACCAGAGGAA AGCCAGCCCCTGGGGAGGGGGACC ATCAGGAACTGCCTTTCTCTCCAA TCG-3' |
| pSIF-miR-185-3p ∆ | 5'-GATCCGATTGGAGAGAAAGCG TCTTCCTGATGGTCCCCTCCCC | 5'-AATTCAAAAAGACCAGAGGAA AGCCTCGGCCTGGGGGGGGGG |
| pMIR-c-Myc | 5'-CTAGTCTGCAGAGACAGATCA GCAACAACCGAAAATGCACCAG CCCCAGGTCCTCGGACACCGAGA -3' | 5'-AGCTTCTCGGTGTCCGAGGACC TGGGGCTGGTGCATTTTCGGTTGT TGCTGATCTGTCTATGCAGA-3' |
| рMIR-с-Мус ∆ | 5'-CTAGTCTGCAGAGACAGATCA GCAACATGGGATAATGCAGGTC GGGGAGGTCCTCGGACACCGAG A-3' | 5'-AGCTTCTCGGTGTCCGAGGACC TCCCCGACCTGCATTATCCCATGT TGCTGATCTGTCTATGCAGA-3' |

Table S1. List of primers used in this study

Figure S1. miRNA array expression data from RNA samples 1 and 2. Red denotes high expression and green denotes low expression relative to the median. Only the representative miRNA nodes that were significantly changed between samples 1 and 2 as indicated in Fig. 1A are shown here.

Figure S2. Exogenous and endogenous c-Myc binds to the miR-185 and 5S rDNA promoter, but not a control DNA location. The same ChIP experiments as those described in Figures 2C (exogenous v5-c-Myc in 293 cells) and 2E (endogenous c-Myc in U2OS cells), except the PCR products, were analyzed on an agarose gel. Primers were listed in Table S1.

Figure S3. miR-185-3p affects both of the endogenous and exogenous c-Myc while miR-24 only affects the endogenous c-Myc with 3'UTR. H1299 cells were transfected with indicated plasmids. Twenty hrs after transfection, cells were treated with serum-free medium and stimulated by 20 % FBS, cells were collected 3 hrs after stimulation. Immunoblot (IB) analysis was performed with the N262 anti-c-Myc antibody.

Figure S4. miR-185-3p expression is correlated with c-Myc levels in different human cancer cell lines. Various cancer cells as indicated were harvested at the confluence of ~80% for quantitative real-time PCR (QRT-PCR) and IB assays. Figure S5. miR-185-3p plays a little role in regulating c-Myc level in response to DNA damage treatment. HCT116 cells were transfected with indicated plasmids and treated with or without 0.3 μ M doxorubicin (Dox). IB analysis was performed with the indicated antibodies.

Figure S6. The transactivational activity of exogenous c-Myc is reduced in cultured cells. H1299 cells were infected with ad-c-Myc. Cells were harvested at indicated time points post infection for QRT-PCR assays of the E2F2 mRNA level and for IB analysis of the exogenous c-Myc protein level.

| -2.0 0.0 2.0 hsa-miR-140-3p hsa-miR-145 hsa-miR-234 hsa-miR-234 hsa-miR-235 hsa-miR-222 hsa-miR-23b hsa-miR-23b hsa-miR-235 hsa-miR-423-5p hsa-miR-1469 hsa-miR-373 hsa-miR-373 hsa-miR-370 hsa-miR-320a hsa-miR-320a hsa-miR-320b | Sample 1 | Sample 2 | |
|---|----------|----------|-----------------|
| $\begin{array}{c} hsa-miR-140-3p\\ hsa-miR-145\\ hsa-miR-145\\ hsa-miR-145\\ hsa-miR-23a\\ hsa-miR-222\\ hsa-miR-220\\ hsa-miR-23b\\ hsa-miR-23b\\ hsa-miR-361-5p\\ hsa-miR-423-5p\\ hsa-miR-423-5p\\ hsa-miR-103\\ hsa-miR-103\\ hsa-miR-193a-5p\\ hsa-miR-193a-5p\\ hsa-miR-378\\ hsa-miR-378\\ hsa-miR-320a\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-32b\\ hsa-miR-32b\\ hsa-miR-32b\\ hsa-miR-32b\\ hsa-miR-32b\\ hsa-miR-32b\\ hsa-miR-107\\ hsa-miR-107\\ hsa-miR-107\\ hsa-miR-107\\ hsa-miR-107\\ hsa-miR-108\\ hsa-miR-107\\ hsa-miR-108\\ hsa-miR-1$ | -2.0 | 0.0 | 2.0 |
| $\begin{array}{c} hsa-miR-145\\ hsa-miR-23a\\ hsa-miR-23a\\ hsa-miR-22b\\ hsa-miR-22b\\ hsa-miR-23b\\ hsa-miR-23b\\ hsa-miR-23b\\ hsa-miR-361-5p\\ hsa-miR-423-5p\\ hsa-miR-103\\ hsa-miR-103\\ hsa-miR-103\\ hsa-miR-193a-5p\\ hsa-miR-386-5p\\ hsa-miR-386-5p\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-32b\\ hsa-miR-3b\\ hsa$ | | | hsa-miR-140-3p |
| hsa-miR-23a hsa-miR-23a hsa-miR-222 hsa-miR-191 hsa-miR-23b hsa-miR-361-5p hsa-miR-425 hsa-miR-423-5p hsa-miR-103 hsa-miR-103 hsa-miR-103 hsa-miR-103 hsa-miR-103 hsa-miR-27a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-18a hsa-miR-18a hsa-miR-18a hsa-miR-18a hsa-miR-18a hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-198 hsa-miR-1975 hsa-miR-198 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1970 hsa-miR-1970 hsa-miR-17 hsa-miR-171 hsa-miR-171 | | | hsa-miR-145 |
| hsa-miR-23a hsa-miR-222 hsa-miR-23b hsa-miR-23b hsa-miR-23b hsa-miR-425 hsa-miR-425 hsa-miR-423-5p hsa-miR-103 hsa-miR-103 hsa-miR-193a-5p hsa-miR-193a-5p hsa-miR-378 hsa-miR-378 hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-180 hsa-miR-180 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1970 hsa-miR-171 hsa-miR-171 hsa-miR-171 | | | hsa-miR-584 |
| hsa-mi R -222 hsa-mi R -191 hsa-mi R -23b hsa-mi R -361-5p hsa-mi R -423-5p hsa-mi R -423-5p hsa-mi R -103 hsa-mi R -103 hsa-mi R -193a-5p hsa-mi R -193a-5p hsa-mi R -378 hsa-mi R -378 hsa-mi R -378 hsa-mi R -320a hsa-mi R -320a hsa-mi R -320a hsa-mi R -320b hsa-mi R -130b hsa-mi R -132 hsa-mi R -132 hsa-mi R -130b hsa-mi R -130b hsa | | | hsa-miR-23a |
| hsa-miR-191 hsa-miR-23b hsa-miR-23b hsa-miR-425 hsa-miR-423-5p hsa-miR-103 hsa-miR-103 hsa-miR-193a-5p hsa-miR-193a-5p hsa-miR-378 hsa-miR-378 hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-324-5p hsa-miR-18a hsa-miR-130 hsa-miR-130 hsa-miR-130 hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-18a</u> hsa-miR-1975 <u>hsa-miR-1975</u> <u>hsa-miR-18a</u> hsa-miR-1975 <u>hsa-miR-20a</u> hsa-miR-1975 <u>hsa-miR-210</u> hsa-miR-1975 <u>hsa-miR-18a</u> hsa-miR-1975 <u>hsa-miR-18a</u> hsa-miR-1975 <u>hsa-miR-210</u> hsa-miR-1975 <u>hsa-miR-185</u> hsa-miR-181 hsa-miR-181 hsa-miR-181 | | | hsa-miR-222 |
| hsa-miR-23b hsa-miR-361-5p hsa-miR-425 hsa-miR-423-5p hsa-miR-103 hsa-miR-103 hsa-miR-193a-5p hsa-miR-193a-5p hsa-miR-378 hsa-miR-378 hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-180 hsa-miR-180 hsa-miR-180 hsa-miR-130b hsa-miR-130b hsa-miR-130b hsa-miR-130b hsa-miR-1975 <u>hsa-miR-20a</u> hsa-miR-1975 <u>hsa-miR-1975</u> <u>hsa-miR-1975</u> <u>hsa-miR-181</u> hsa-miR-151-3p hsa-miR-151-3p hsa-miR-121 hsa-miR-121 hsa-miR-121 hsa-miR-121 hsa-miR-212 hsa-miR-121 hsa-miR-121 hsa-miR-181 | | | hsa-miR-191 |
| hsa-miR-361-5p hsa-miR-423-5p hsa-miR-103 hsa-miR-103 hsa-miR-107 hsa-miR-27a hsa-miR-378 hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320a hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-180 hsa-miR-180 hsa-miR-180 hsa-miR-107 hsa-miR-120 hsa-miR-120 hsa-miR-107 hsa-miR-107 hsa-miR-107 hsa-miR-107 hsa-miR-108 hsa- | | | hsa-miR-23b |
| hsa-miR-423-5p hsa-miR-143 hsa-miR-103 hsa-miR-1469 hsa-miR-193a-5p hsa-miR-27a hsa-miR-378 hsa-miR-320a hsa-miR-320a hsa-miR-320c hsa-miR-320c hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-107 hsa-miR-107 hsa-miR-107 hsa-miR-107 hsa-miR-108 hsa | | | hsa-miR-361-5p |
| hsa-miR-423-3p hsa-miR-437 hsa-miR-103 hsa-miR-1469 hsa-miR-193a-5p hsa-miR-27a hsa-miR-378 hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320c hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-18a hsa-miR-18a hsa-miR-18a hsa-miR-130b hsa-miR-130b hsa-miR-130b hsa-miR-130b hsa-miR-1975 <u>hsa-miR-1975</u> <u>hsa-miR-1975</u> <u>hsa-miR-1855</u> hsa-miR-151-5p hsa-miR-151-5p hsa-miR-720 hsa-miR-720 hsa-miR-720 hsa-miR-720 hsa-miR-720 | | | hsa-miR-425 |
| hsa-miR-637 hsa-miR-637 hsa-miR-1469 hsa-miR-193a-5p hsa-miR-27a hsa-miR-378 hsa-miR-378 hsa-miR-320a hsa-miR-320c hsa-miR-320c hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-107 hsa-miR-18a hsa-miR-18a hsa-miR-130b hsa-miR-185b hsa-miR-185b hsa-miR-181a hsa-miR-181a hsa-miR-181a | | | hsa-miR-102 |
| hsa-miR-1469 hsa-miR-193a-5p hsa-miR-27a hsa-miR-378 hsa-miR-320a hsa-miR-320a hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-320b hsa-miR-107 hsa-miR-18a hsa-miR-18a hsa-miR-130b hsa-miR-130b hsa-miR-130b hsa-miR-1308 hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-185</u> hsa-miR-185 hsa-miR-185 hsa-miR-185 hsa-miR-221 hsa-miR-221 hsa-miR-221 hsa-miR-221 hsa-miR-17 hsa-miR-181a | | | hsa miR-637 |
| hsa-mi R -193a-5p hsa-mi R -27a hsa-mi R -378 hsa-mi R -320a hsa-mi R -320c hsa-mi R -320c hsa-mi R -320c hsa-mi R -320c hsa-mi R -320b hsa-mi R -320b hsa-mi R -320b hsa-mi R -320b hsa-mi R -320b hsa-mi R -180 hsa-mi R -181a hsa-mi R -181a hsa-mi R -1975 hsa-mi R -1976 hsa-mi R -1976 hsa-m | | | hsa-miR-1469 |
| hsa-mi R -27a hsa-mi R -378 hsa-mi R -378 hsa-mi R -320a hsa-mi R -320c hsa-mi R -320c hsa-mi R -320b hsa-mi R -320b hsa-mi R -320b hsa-mi R -320b hsa-mi R -320b hsa-mi R -1320 hsa-mi R -138a hsa-mi R -138a hsa-mi R -1320 hsa-mi R -2100 hsa-mi R -2100 hsa-mi R -20a hsa-mi R -20a hsa-mi R -20a hsa-mi R -20a hsa-mi R -20a hsa-mi R -2100 hsa-mi R -248m hsa-mi R -1308 hsa-mi R -1498 hsa-mi R -1498 hsa-mi R -151-5p hsa-mi R -151-5p hsa-mi R -221 hsa-mi R -221 | | | hsa-miR-193a-5n |
| $\begin{array}{c} hsa-miR-378\\ hsa-miR-320a\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320c\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-107\\ hsa-miR-107\\ hsa-miR-1180\\ hsa-miR-1180\\ hsa-miR-1180\\ hsa-miR-120c\\ hsa-miR-120c\\ hsa-miR-210\\ hsa-miR-20c\\ hsa-miR-20c\\ hsa-miR-24\\ hsa-miR-1975\\ hsa-miR-1975\\ hsa-miR-181\\ hsa-miR-181a\\ hsa-$ | | | hsa-miR-27a |
| $\begin{array}{c} hsa-miR-886-5p\\ hsa-miR-320a\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-107\\ hsa-miR-107\\ hsa-miR-1180\\ hsa-miR-124\\ hsa-miR-120b\\ hsa-miR-210\\ hsa-miR-20a\\ hsa-miR-1308\\ hsa-miR-20a\\ hsa-miR-1308\\ hsa-miR-1308\\ hsa-miR-1975\\ hsa-miR-1975\\ hsa-miR-185\\ hsa-miR-185\\ hsa-miR-181a\\ hsa-miR-720\\ hsa-miR-17\\ hsa-miR-181a\\ hsa-$ | | | hsa-miR-378 |
| hsa-mi R -320a hsa-mi R -320c hsa-mi R -320b hsa-mi R -324-5p hsa-mi R -132 hsa-mi R -132 hsa-mi R -130b hsa-mi R -130b hsa-mi R -130b hsa-mi R -130b hsa-mi R -1308 hsa-mi R -1308 hsa-mi R -1975 <u>hsa-miR-1975 hsa-miR-1975 <u>hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1976 hsa</u></u> | | | hsa-miR-886-5p |
| $\begin{array}{c} hsa-miR-320c\\ hsa-miR-331-3p\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-320b\\ hsa-miR-107\\ hsa-miR-18a\\ hsa-miR-18a\\ hsa-miR-180\\ hsa-miR-130b\\ hsa-miR-130b\\ hsa-miR-210\\ hsa-miR-20a\\ hsa-miR-1308\\ hsa-miR-1975\\ \underline{hsa-miR-1975}\\ hsa-miR-1975$ | | | hsa-miR-320a |
| $\begin{array}{c} hsa-miR-331-3p\\ hsa-miR-320b\\ hsa-miR-18a\\ hsa-miR-18a\\ hsa-miR-18a\\ hsa-miR-18a\\ hsa-miR-180\\ hsa-miR-122\\ hsa-miR-324-5p\\ hsa-miR-20a\\ hsa-miR-20a\\ hsa-miR-20a\\ hsa-miR-20a\\ hsa-miR-130b\\ hsa-miR-130b\\ hsa-miR-1975\\ hsa-miR-1975\\ hsa-miR-1975\\ hsa-miR-198\\ hsa-miR-198\\ hsa-miR-151-3p\\ hsa-miR-151-3p\\ hsa-miR-221\\ hsa-miR-221\\ hsa-miR-221\\ hsa-miR-181a\\ hs$ | | | hsa-miR-320c |
| hsa-miR-320b hsa-miR-548h hsa-miR-18a hsa-miR-18a hsa-miR-18a hsa-miR-180 hsa-miR-324-5p hsa-miR-130b hsa-miR-210 hsa-miR-20a hsa-miR-20a hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-24</u> hsa-miR-1975 <u>hsa-miR-24</u> hsa-miR-198 hsa-miR-151-3p hsa-miR-151-3p hsa-miR-221 hsa-miR-221 hsa-miR-221 hsa-miR-181a | | | hsa-miR-331-3p |
| hsa-miR-548h hsa-miR-107 hsa-miR-18a hsa-miR-18a hsa-miR-180 hsa-miR-324-5p hsa-miR-130 hsa-miR-210 hsa-miR-20a hsa-miR-20a hsa-miR-20a hsa-miR-1975 <u>hsa-miR-248m hsa-miR-1975 hsa-miR-181</u> hsa-miR-151-5p hsa-miR-151-5p hsa-miR-181a hsa-miR-181a | | | hsa-miR-320b |
| hsa-miR-107 hsa-miR-18a hsa-miR-1180 hsa-miR-324-5p hsa-miR-132 hsa-miR-130b hsa-miR-210 hsa-miR-20a hsa-miR-20a hsa-miR-1308 hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-1975 hsa-miR-24</u> hsa-miR-185 hsa-miR-151-5p hsa-miR-151-5p hsa-miR-221 hsa-miR-221 hsa-miR-17 hsa-miR-181a | | | hsa-miR-548h |
| hsa-miR-18a hsa-miR-18a hsa-miR-1180 hsa-miR-324-5p hsa-miR-130 hsa-miR-210 hsa-miR-20a hsa-miR-20a hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-185 hsa-miR-185 hsa-miR-151-5p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a</u> | | | hsa-miR-107 |
| hsa-miR-1180 hsa-miR-132 hsa-miR-132 hsa-miR-130 hsa-miR-210 hsa-miR-20a hsa-miR-1308 hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-1975 hsa-miR-1975</u> hsa-miR-198 hsa-miR-151-3p hsa-miR-151-3p hsa-miR-151-5p hsa-miR-121 hsa-miR-181a | | | hsa-miK-18a |
| hsa-miR-324-5p hsa-miR-132 hsa-miR-130b hsa-miR-210 hsa-miR-20a hsa-miR-20a hsa-miR-208 hsa-miR-1975 hsa-miR-24 hsa-miR-24 hsa-miR-24 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-1975 hsa-miR-198 hsa-miR-197 hsa-miR-181a hsa-miR-181a | | | hsa-miR-1180 |
| hsa-miR-132 hsa-miR-130b hsa-miR-210 hsa-miR-20a hsa-miR-1308 hsa-miR-1308 hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-24</u> hsa-miR-498 hsa-miR-185 hsa-miR-151-3p hsa-miR-151-3p hsa-miR-221 hsa-miR-221 hsa-miR-17 hsa-miR-181a | | | hsa-miR-122 |
| hsa-miR-210 hsa-miR-20a hsa-miR-1308 hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-244</u> hsa-miR-498 hsa-miR-548m <u>hsa-miR-185</u> hsa-miR-151-3p hsa-miR-151-3p hsa-miR-221 hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a | | | hsa-miR-130h |
| hsa-miR-20a hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-24</u> hsa-miR-498 hsa-miR-548m <u>hsa-miR-185</u> hsa-miR-151-3p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a | | | hsa-miR-210 |
| hsa-miR-1308 hsa-miR-1975 <u>hsa-miR-24</u> hsa-miR-498 hsa-miR-548m <u>hsa-miR-185</u> hsa-miR-151-3p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a | | | hsa-miR-20a |
| hsa-miR-1975 <u>hsa-miR-24</u> hsa-miR-498 hsa-miR-548m <u>hsa-miR-185</u> hsa-miR-151-3p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-720 hsa-miR-17 hsa-miR-181a | | | hsa-miR-1308 |
| <u>hsa-miR-24</u> hsa-miR-498 hsa-miR-548m <u>hsa-miR-185</u> hsa-miR-151-3p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-181a | | | hsa-miR-1975 |
| hsa-miR-498 hsa-miR-548m hsa-miR-185 hsa-miR-151-3p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-181a | | | hsa-miR-24 |
| hsa-miR-548m hsa-miR-185 hsa-miR-151-3p hsa-miR-151-5p hsa-miR-30d hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-181a | | | hsa-miR-498 |
| <u>hsa-miR-185</u> hsa-miR-151-3p hsa-miR-151-5p hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-181a | | | hsa-miR-548m |
| hsa-miR-151-3p hsa-miR-151-5p hsa-miR-30d hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-84 | | | hsa-miR-185 |
| hsa-miR-151-5p hsa-miR-30d hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-181a | | | hsa-miR-151-3p |
| hsa-miR-30d hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a hsa-miR-181a | | | hsa-miR-151-5p |
| hsa-miR-221 hsa-miR-720 hsa-miR-17 hsa-miR-181a | | | hsa-miR-30d |
| hsa-miR-720 hsa-miR-17 hsa-miR-181a | | | nsa-mik-221 |
| hsa-miR-17 hsa-miR-181a | | | haa-miR-120 |
| haa-miR-03 | | | hsa-miR-181a |
| | | | hsa-miR-93 |







Fig. S4

HCT116 p53 +/+miR-185-3p inhibitor + CT inhibitor + DMSO + Dox + + c-Myc + $p53 \rightarrow$

