

Table S1. Reagents used in this study.

| Probe | Assay ID | Company | |
|------------------------------|-------------------------|--|---|
| <i>MCM2</i> | Hs01091564_m1 | Applied Biosystem (Foster City, CA, USA) | |
| <i>MCM3</i> | Hs00172459_m1 | Applied Biosystem | |
| <i>MCM4</i> | Hs00908398_m1 | Applied Biosystem | |
| <i>MCM5</i> | Hs01052148_m1 | Applied Biosystem | |
| <i>MCM6</i> | Hs00962418_m1 | Applied Biosystem | |
| <i>MCM7</i> | Hs00428518_m1 | Applied Biosystem | |
| <i>GAPDH</i> | Hs99999905_m1 | Applied Biosystem | |
| siRNA | Concentration | Catalog number primer name or sequence (5' to 3') | Company |
| si- <i>MCM2</i> | 10nM | Cat#10620312 HSS106390, HSS181044 | Invitrogen (Carlsbad, CA, USA) |
| si- <i>MCM3</i> | 10nM | Cat#10620312 HSS181045, GAACCUACCGUUGCCUCCUGGAAA | Invitrogen |
| si- <i>MCM4</i> | 10nM | Cat#10620312 HSS106396, HSS106398 | Invitrogen |
| si- <i>MCM5</i> | 10nM | Cat#10620312 HSS181047, GAGUGCUCGGUUUCUUCUCUGUU | Invitrogen |
| si- <i>MCM6</i> | 10nM | Cat#10620312 HSS106403, HSS106404 | Invitrogen |
| si- <i>MCM7</i> | 10nM | Cat#10620312 HSS106405, HSS181048 | Invitrogen |
| Antibody | Dilution | Catalog number | Company |
| <i>MCM2</i> | WB 1:1000 IHC 1:1000 | ab4461 | Abcam (Cambridge, UK) |
| p <i>MCM2</i> | WB 1:1000 | ab133243 | Abcam |
| <i>MCM3</i> | WB 1:1000 IHC 1:100 | ab128923 | Abcam |
| <i>MCM4</i> | WB 1:2000 IHC 1:1000 | ab4459 | Abcam |
| <i>MCM5</i> | WB 1:1000 IHC 1:50 | ab75975 | Abcam |
| <i>MCM6</i> | WB 1:2000 IHC 1:100 | ab4458 | Abcam |
| <i>MCM7</i> | WB 1:1000 IHC 1:1000 | ab2360 | Abcam |
| CDC7 | WB 1:500 | ab229187 | Abcam |
| <i>GAPDH</i> | WB 1:20000 | MAB374 | EMD Millipore (Billerica, MA, USA) |
| Inhibitor | | catalog number | company |
| TAK-931 (simurosertib) | | HY-100888 | MedChemExpress (Monmouth Junction, NJ, USA) |
| miRNA | Concentration | Catalog number / Assay ID | company |
| <i>miR-139-3p</i> | 10nM | AM17100 / PM25489 | Invitrogen |
| <i>miR-378a-5p</i> | 10nM | AM17100 / PM10049 | Invitrogen |
| <i>miR-2110</i> | 10nM | AM17100 / PM14979 | Invitrogen |
| anti-miR Negative Control #1 | 10nM | AM17100 / - | Invitrogen |