## **Supporting Information for video files**

Video S1 HT1080\_mock. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S2 HT1080-TP53ko\_mock. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S3 HT1080 selinexor. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S4 HT1080-TP53ko\_selinexor. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S5 MCF7 mock. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S6 MCF7-shp53\_mock. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S7 MCF7\_selinexor. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S8 MCF7-shp53\_selinexor. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S9 HT1080\_nutlin3a. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S10 MCF7\_nutlin3a. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S11 HT1080-TP53ko\_nutlin3a. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S12 MCF7-shp53\_nutlin3a. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S13 HT1080\_combination. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S14 HT1080-TP53ko\_combination. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S15 MCF7\_combination. 1 frame per 10 minutes. Playback = 10 frames per second.

Video S16 MCF7-shp53\_combination. 1 frame per 10 minutes. Playback = 10 frames per second.