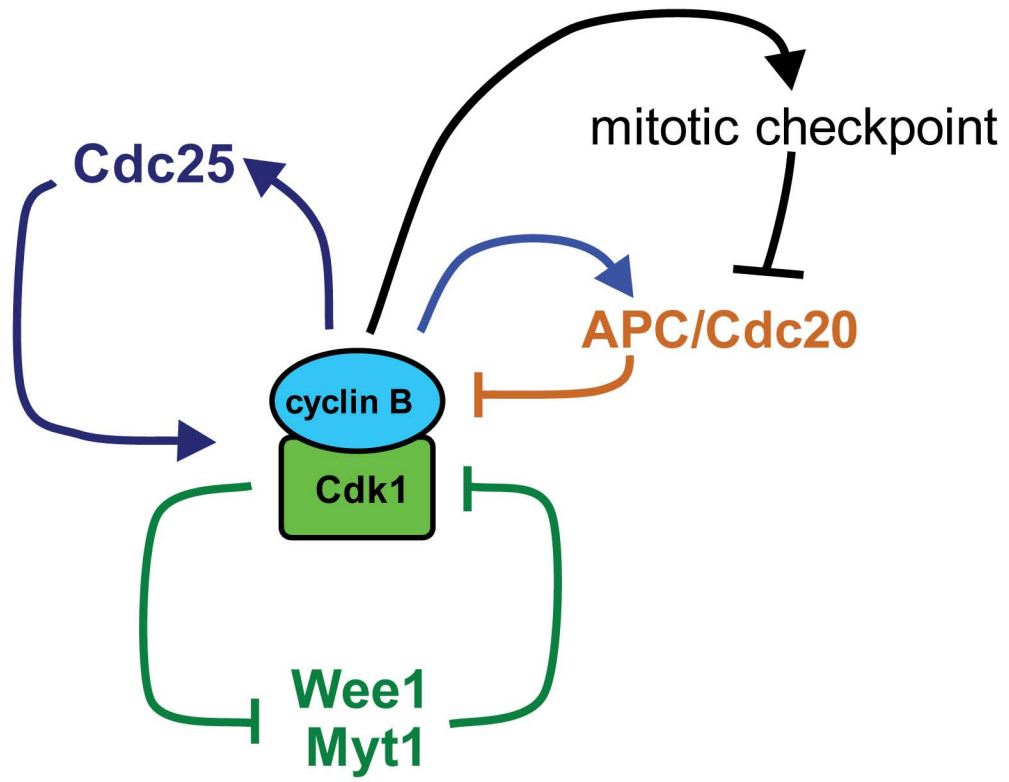
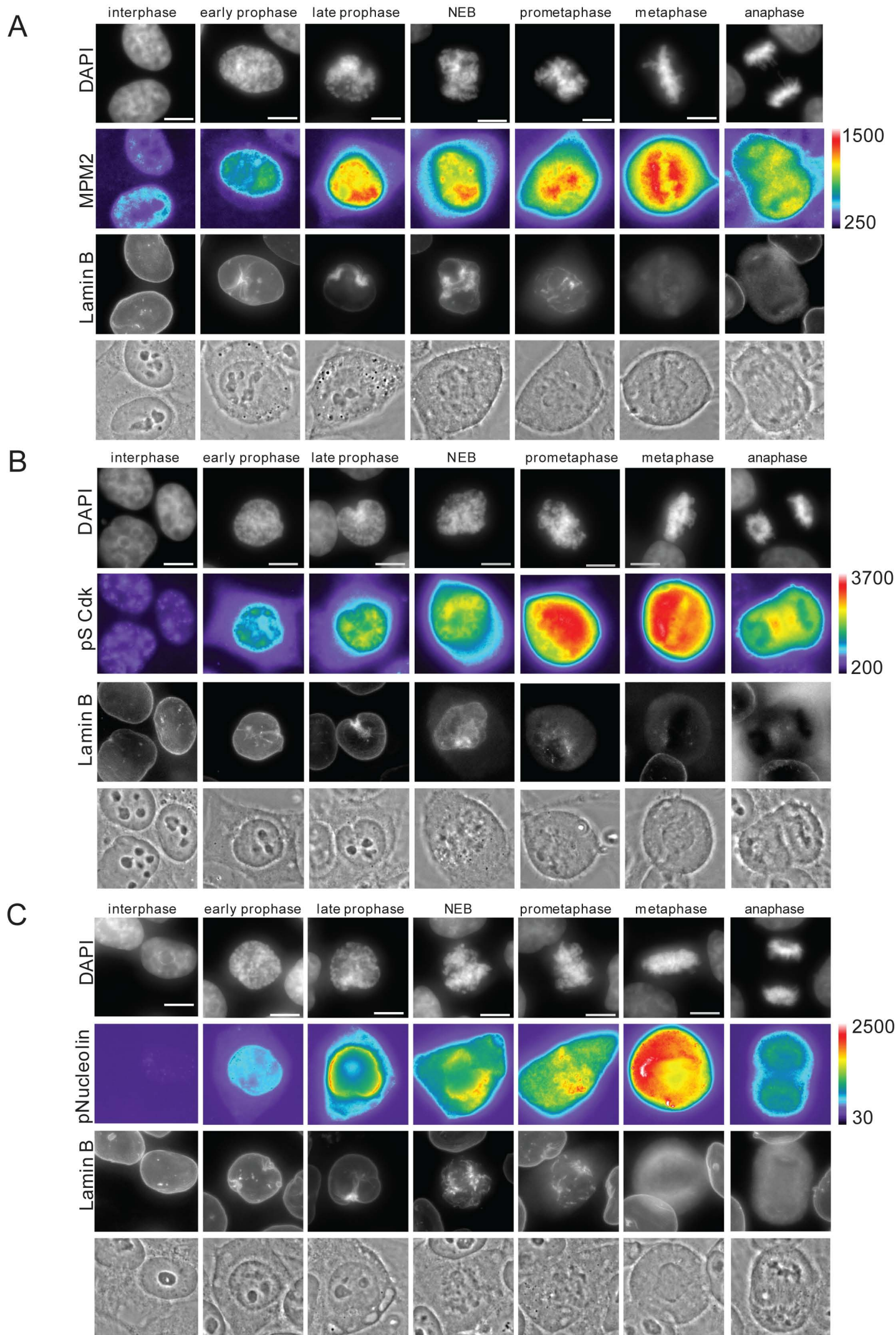


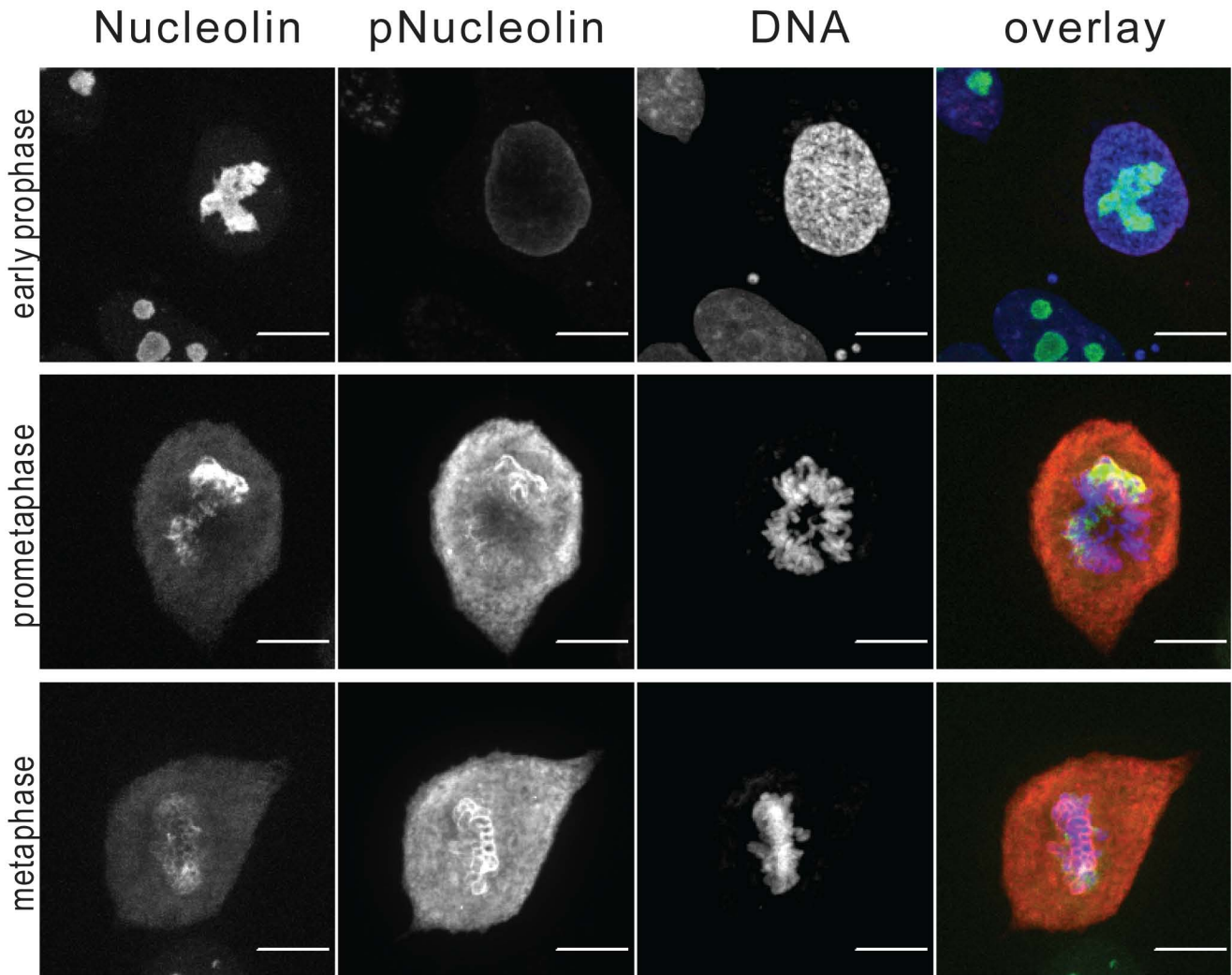
# Supplemental Figure 1



# Supplemental Figure 2

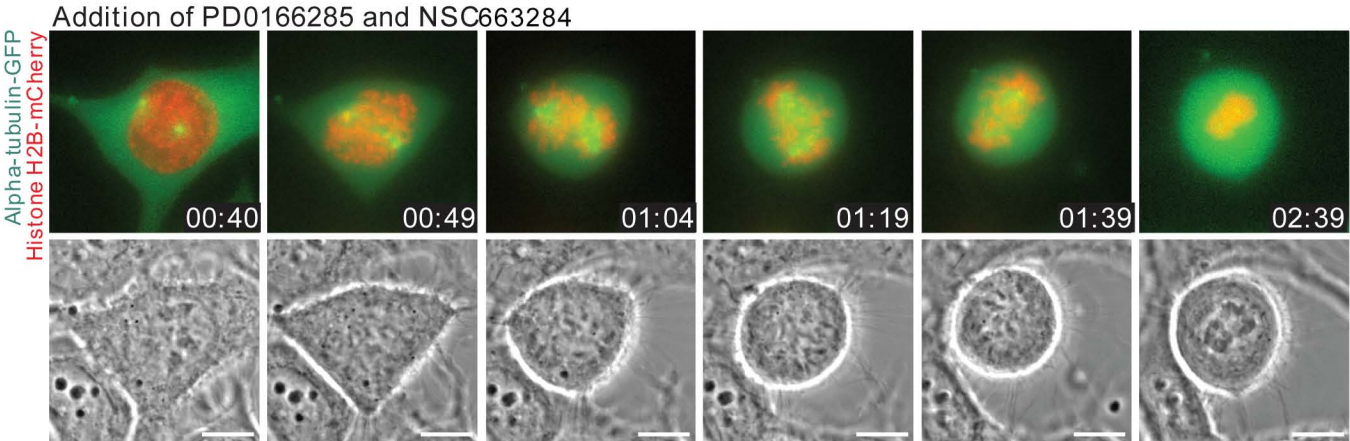


# Supplemental Figure 3

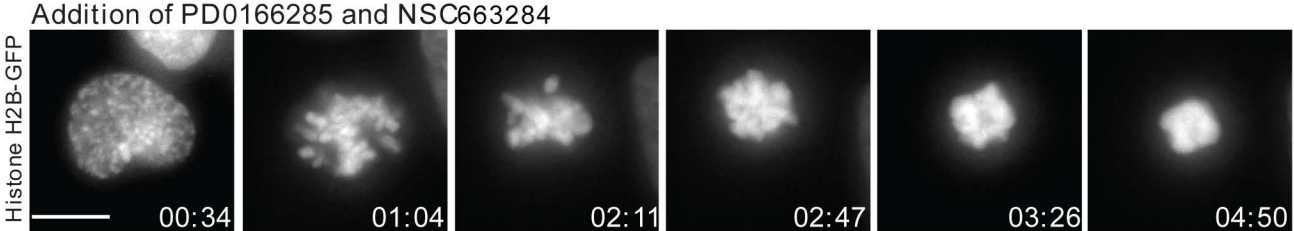


# Supplemental Figure 4

## A HeLa cell

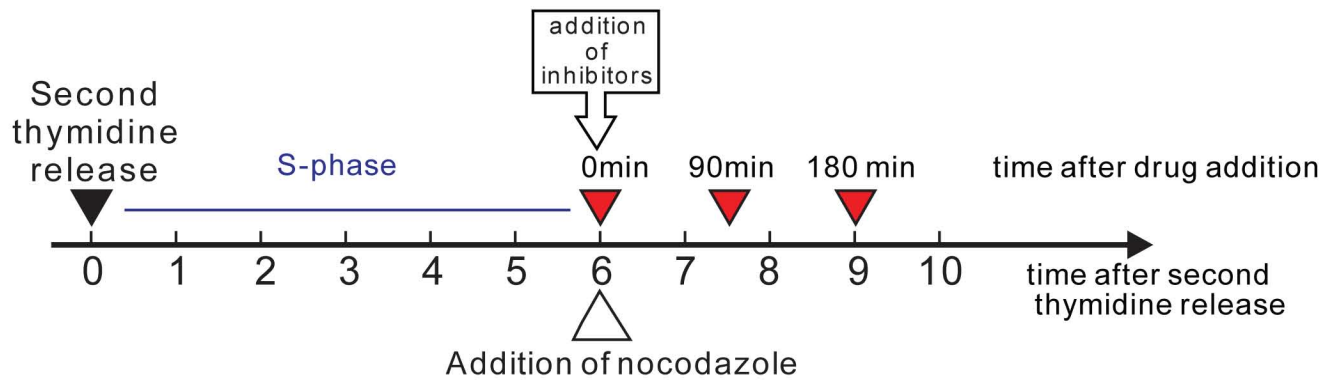


## B RPE-1 cell



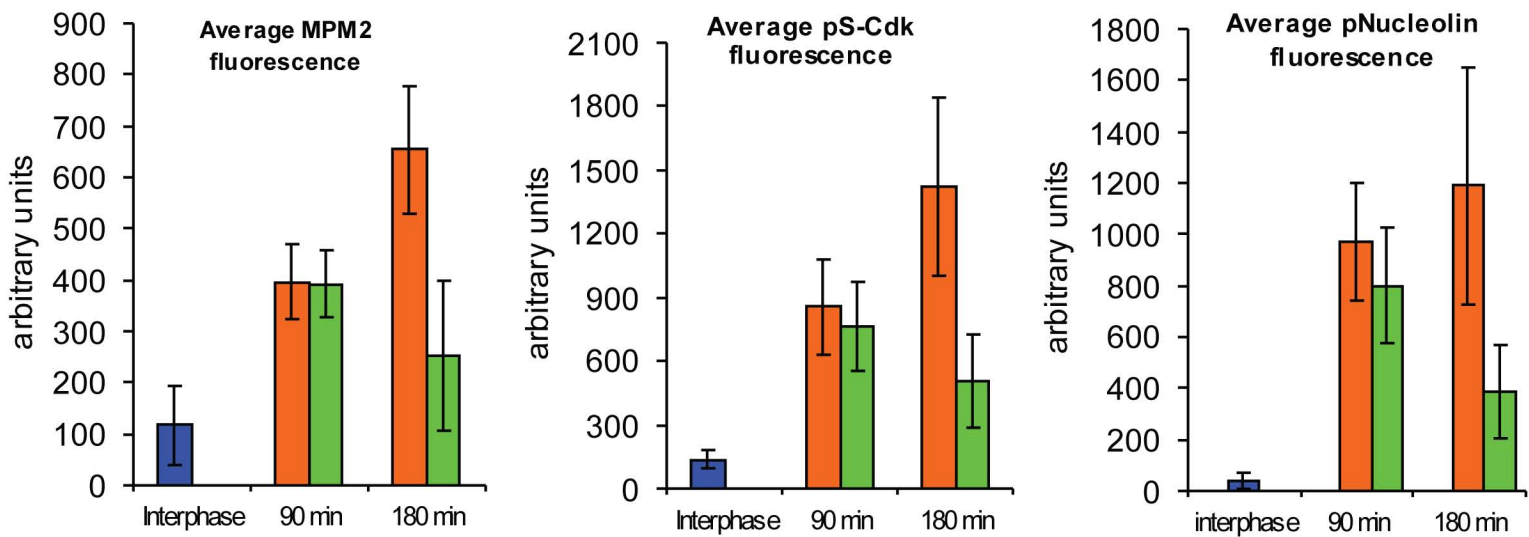


# Supplemental Figure 5

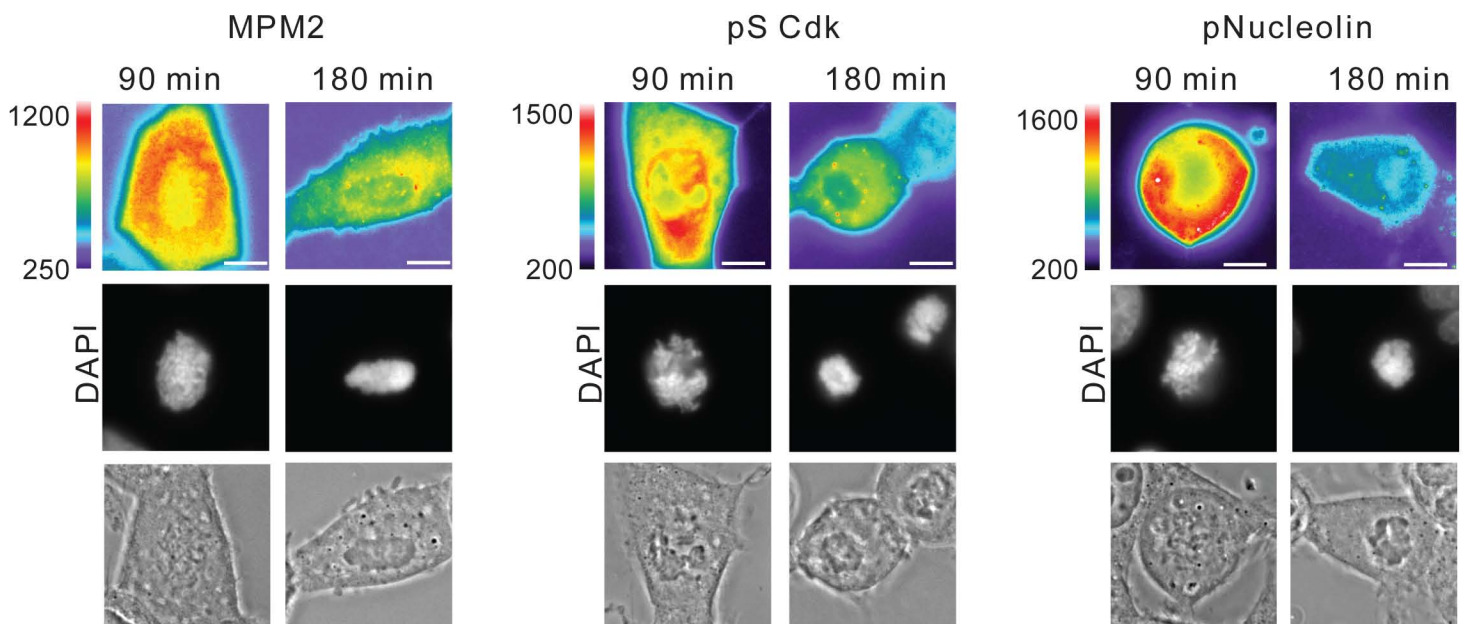


**A**

■ PD0166285   
 ■ PD0166285+NSC663284



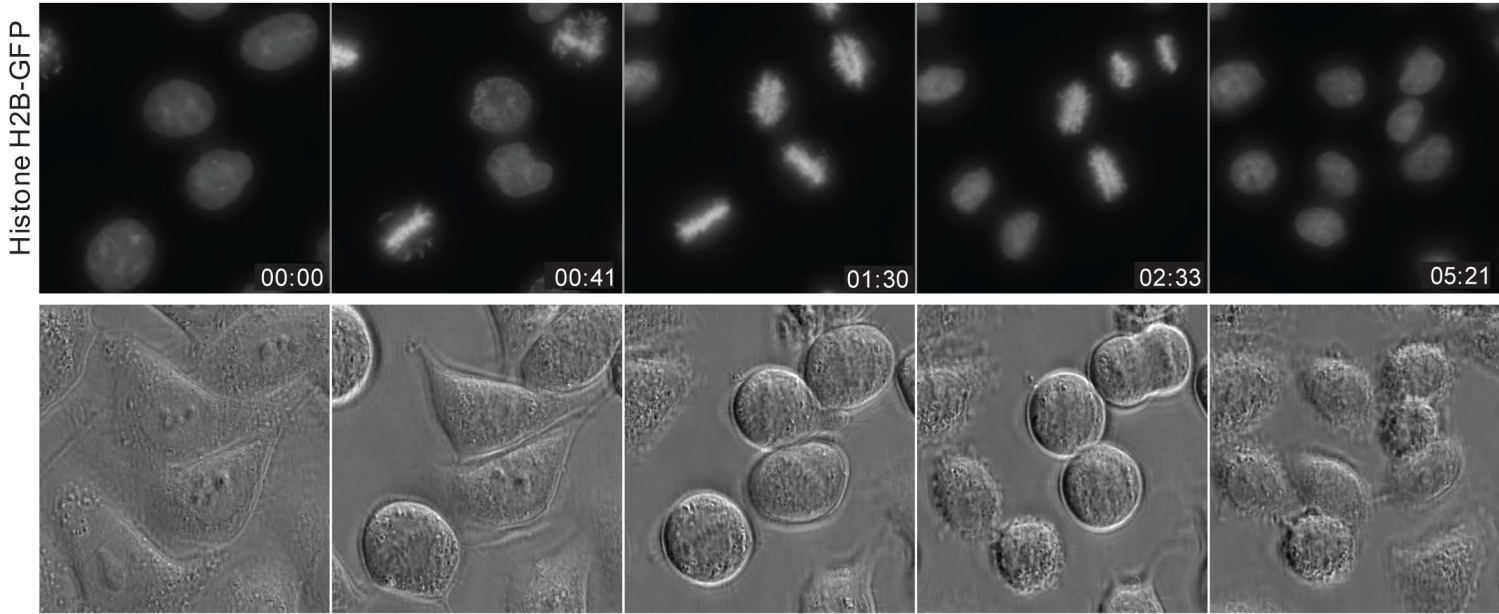
**B**



# Supplemental Figure 6

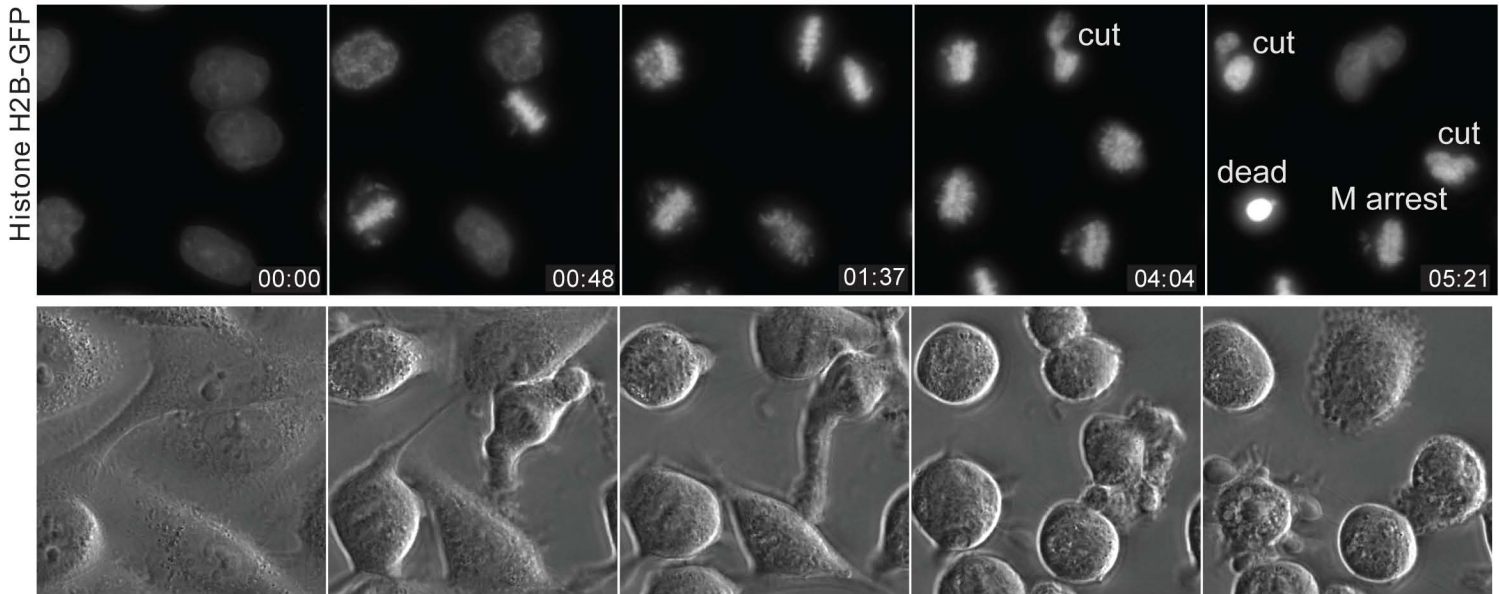
## Negative siRNA

Addition of PD0166285



## MastL siRNA

Addition of PD0166285



Defect +PD0166285	Negative siRNA	MASTL siRNA
Number of cells	119	123
Died in mitosis	2.5%	34.9%
Segregation defects	0%	16.3%
No segregation ("cut")	0%	13.0%
Mitotic arrest	1.7%	15.4%

