Description of Additional Supplementary Files

Supplementary Movie 1:

Precocious centriole disengagement in interphase in DONSON-depleted cells
HeLa-GFP-centrin1 (green) cells were treated with siDONSON in the presence of 200 nM SiR-DNA (red). 25 × 1.2–µm z-stacks were acquired every 20 min at 40× magnification. Image frames shown are maximum-intensity projections at each time point.

Supplementary Movie 2:

A control mitotic cell showing proper bipolar formation and chromosome segregation
HeLa-GFP-centrin1 (green) cells were treated with siControl in the presence of 200 nM SiR-DNA (red). 25 × 1.2–µm z-stacks were acquired every 20 min at 40× magnification. Image frames shown are maximum-intensity projections at each time point.

Supplementary Movie 3:

Chromosome mis-alignment in DONSON-depleted cells
HeLa-GFP-centrin1 (green) cells were treated with siDONSON in the presence of 200 nM SiR-DNA (red). 25 × 1.2–µm z-stacks were acquired every 20 min at 40× magnification. Image frames shown are maximum-intensity projections at each time point.

Supplementary Movie 4:

Multi-polar spindle formation in DONSON-depleted cells
HeLa-GFP-centrin1 (green) cells were treated with siDONSON in the presence of 200 nM SiR-DNA (red). 25 × 1.2–µm z-stacks were acquired every 20 min at 40× magnification. Image frames shown are maximum-intensity projections at each time point.