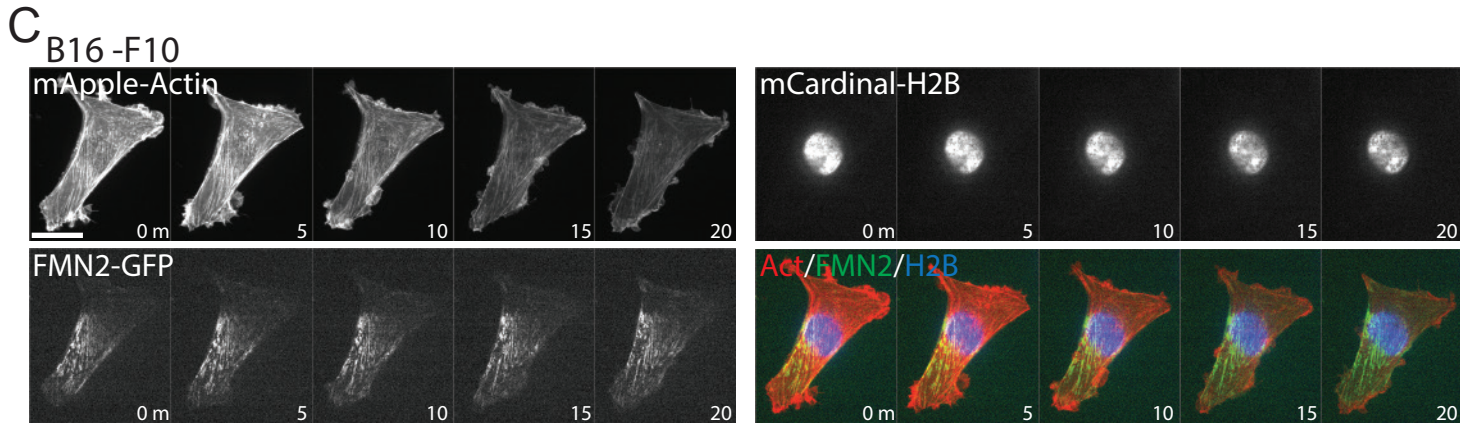
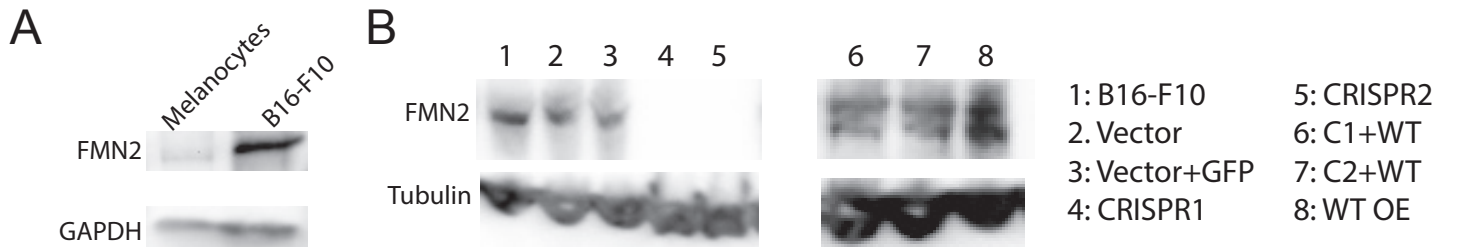


# Supplemental Figure 7



**D**

B16-F10 Cell Lines	Figure(s)
<b>B16-F10</b>	Figure 7A, C-H; Figure S7A-H
<b>Cas9 Vector (Vector)</b>	
Clone 1	Figure 7C-D; Figure S7B, F
Clone 2	Figure 7D; Figure S7F
<b>Cas9 Vector+GFP (Vector+GFP)</b>	
Clone 1	Figure 7C-D; Figure S7B, F
Clone 2	Figure 7D; Figure S7F
<b>FMN2 Overexpression (WT OE)</b>	
Clone 1	Figure 7C-H; Figure S7B, D, F-H
Clone 2	Figure 7D; Figure S7F
<b>CRISPR Oligo Set 1 (CRISPR1)</b>	
Clone 1	Figure 7B-H; Figure S7B, D-H
Clone 2	Figure 7D; Figure S7F
<b>CRISPR Oligo Set 2 (CRISPR2)</b>	
Clone 1	Figure 7C-D; Figure S7B, F-H
Clone 2	Figure 7D; Figure S7F
<b>CRISPR Oligo Set 1+FMN2 (C1+WT)</b>	
Clone 1	Figure 7C-H; Figure S7B, F-H
Clone 2	Figure 7D; Figure S7F
<b>CRISPR Oligo Set 2+FMN2 (C2+WT)</b>	
Clone 1	Figure 7C-D; Figure S7B, F-H
Clone 2	Figure 7D; Figure S7F

**E**

	MEF	B16-F10
<b>FMN2 Localization</b>	Perinuclear Fibers	Perinuclear Fibers
<b>Perinuclear Actin</b>	Present	Present
<b>Growth Rate (+/-FMN2)</b>	No Difference	No Difference
<b>Binucleate Cells (+/-FMN2)</b>	No Difference	No Difference
<b>Migration Speed (+/-FMN2)</b>	No Difference	No Difference
<b>Directional Persistence (+/-FMN2)</b>	No Difference	N/A
<b>Transwell Assay</b>		
<b>Number of Cells (+/-FMN2)</b>	-FMN2: Fewer Cells	-FMN2: Fewer Cells
<b>DNA Damage (+/-FMN2)</b>	-FMN2: More Damage	-FMN2: More Damage
<b>Invasion Assay (Matrigel; +/-FMN2)</b>	N/A	-FMN2: Fewer Cells

