

Figure 2 - source data

E - iMT dwell time at cell ends

	mean ± standard deviation (s)	number of observations	Kolmogorov-Smirnov test (p)	
<i>control</i>	54.2 ± 25.2	104		
<i>Δklp5 Δklp6</i>	84.6 ± 58.9	97	4.159 × 10 ⁻¹¹	0.01274
<i>Δmcp1</i>	87.5 ± 61.3	100		
<i>Δtea2</i>	28.7 ± 15.6	100		
<i>Δklp5 Δklp6 Δtea2</i>	43.0 ± 24.3	93	1.908 × 10 ⁻⁵	0.2242
<i>Δmcp1 Δtea2</i>	42.15 ± 23.2	100		

F - Distance from cell end when MT undergoes shrinkage

	mean ± standard deviation(μm)	number of observations
<i>control</i>	0.21 ± 0.085	20
<i>Δklp5 Δklp6</i>	0.34 ± 0.43	20
<i>Δmcp1</i>	0.17 ± 0.11	20
<i>Δtea2</i>	1.71 ± 1.29	20
<i>Δklp5 Δklp6 Δtea2</i>	0.50 ± 0.71	20
<i>Δmcp1 Δtea2</i>	0.45 ± 0.45	20