

Table S.1. Fit to Eq.3 (Rise) and Eq. 4 (Decay) WO working objects SD: standard deviation (P values < 0.0001).

Rise	Slope			Rate	
	$pN^{-1}$	SD	nm/wo	$s^{-1}$	SD
average	-0.066	0.0141	-0.269	0.274	0.04
Decay					
fast	0.0678	0.0100	0.276	99	5
slow	0.0254	0.0058	0.103	5.6	0.8
average	0.0653	0.0184	0.266	32	12

Decay and off-rate determined from the fit of the rise phase of the sawtooth to **Eq.X** ( $p$  value < 0.001).

	Decay				off-rate			
	pN <sup>-1</sup>	SD	nm	SD	s <sup>-1</sup>	SD	num	r <sup>2</sup>
Control	-0.053 <sup>a</sup>	0.0038	-3.22	0.230	0.210	0.016	45	0.82
All <sup>†</sup>	-0.051 <sup>a</sup>	0.0036	-3.10	0.217	0.211	0.019	74	0.74
	-0.050 <sup>b</sup>	0.0029	-3.06	0.178	0.231	0.032	8	0.98
	-0.051 <sup>c</sup>	0.0058	-3.10	0.360	0.227	0.035	32	0.72
	-0.044 <sup>d</sup>	0.0038	-2.71	0.230	0.179	0.021	59	0.71

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-3.10	0.217
-3.06	0.178
-3.10	0.360
-2.71	0.230

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