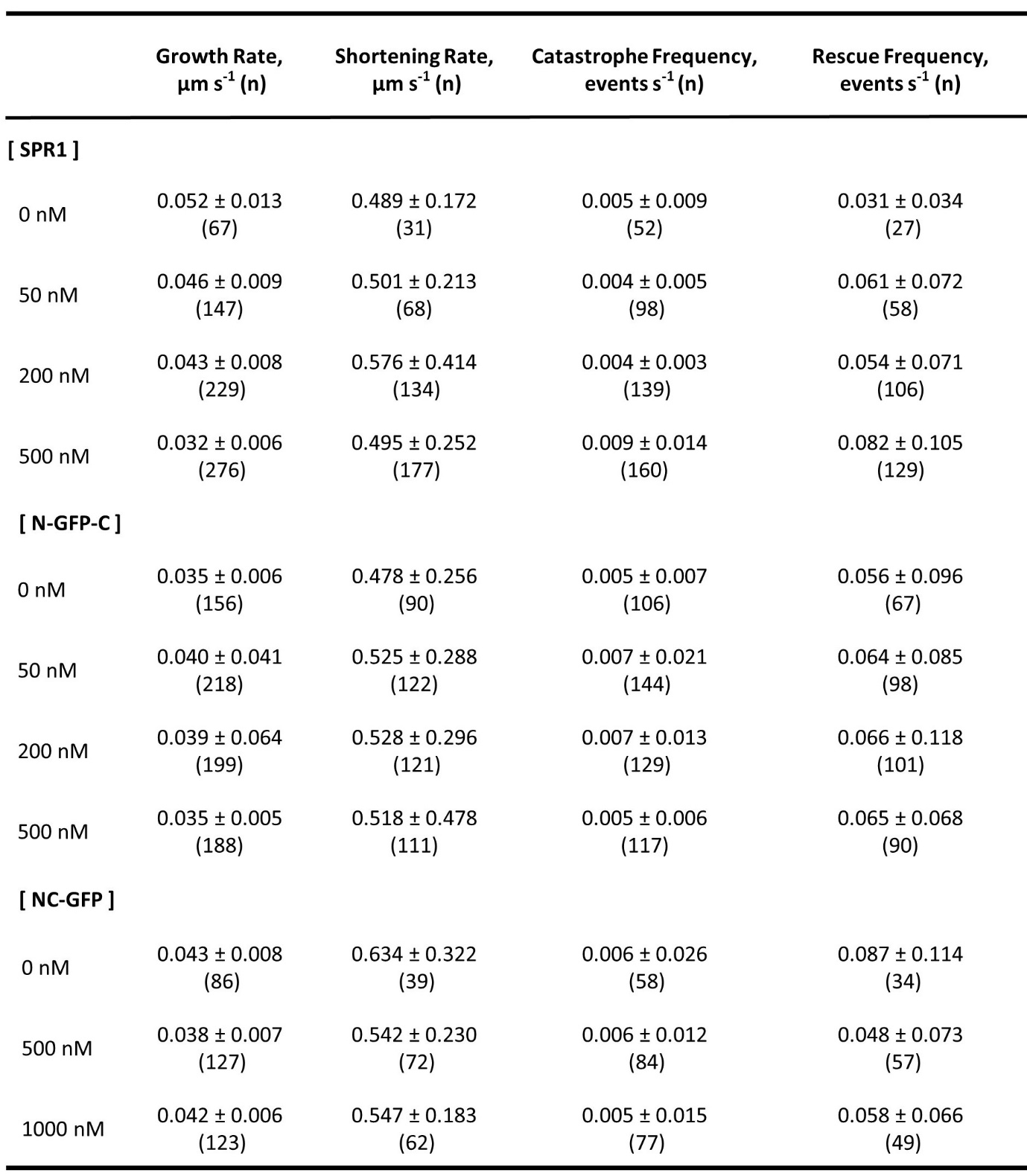
**SUPPORTING INFORMATION**

**Table S1. Effect of SPR1-GFP, N-GFP-C and NC-GFP on microtubule plus-end dynamics.**



Values are mean ± s.d. (n = number of events)

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***Figure S1****: Representative image of NC-GFP (green) bound to GTPγS-microtubules grown from GMPCPP-microtubule seeds (red). The montage on the right shows an example of a growing GTPγS-microtubule getting bound by NC-GFP. Scale bar, 5 µm.*

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***Figure S2:*** *Bright-field (top row) and fluorescence (bottom row) images of HEK-293 cells either mock transfected (control) or transfected with SPR1-GFP or NC-GFP. Cells were imaged 48hr after transfection. Scale bar, 100um.*

**SUPPLEMENTAL MOVIE LEGENDS**

**Supplemental Movie 1**

SPR1-GFP localizes to growing microtubule plus-ends *in vitro*. Time is shown in seconds.

**Supplemental Movie 2**

N-GFP-C localizes to growing microtubule plus-ends *in vitro*. Time is shown in seconds.

**Supplemental Movie 3**

NC-GFP localizes to growing microtubule plus-ends *in vitro*. Time is shown in seconds.

**Supplemental Movie 4**

SPR1-GFP localizes to growing microtubule plus-ends in HEK-293 cells. Time is shown in seconds.

**Supplemental Movie 5**

NC-GFP localizes to growing microtubule plus-ends in HEK-293 cells. Time is shown in seconds.