Electronic Supplementary Material (ESI) for Molecular BioSystems. This journal is © The Royal Society of Chemistry 2015

## Supplementary data

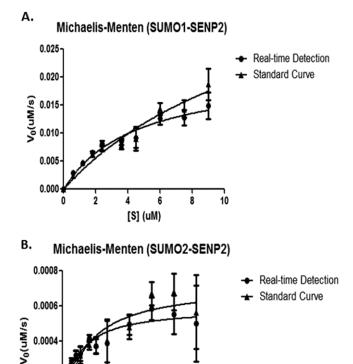
0.0002

0.0000

0.0

0.2

[S] (uM)



0.4

0.6

Figure S1. Comparison of Michaelis-Menten curves of pre-SUMO1 and 2 cleaved by SENP2 from the real-time detection and the standard curve method.

A. The Michaelis-Menten curves of pre-SUMO1 cleaved by SENP2. B. The Michaelis-Menten curves of pre-SUMO2 cleaved by SENP2. In each condition, three samples were measured.

Table S1.  $k_{cat}/K_M$  of SENP2 for SUMO1,2 analyzed by standard curve method. In each condition, three samples were measured.

	<i>K<sub>M</sub></i> (μM)	<i>k<sub>cat</sub></i> (s <sup>-1</sup> )	$k_{cat}/K_M$ (M <sup>-1</sup> ·s <sup>-1</sup> )
SUMO1-SENP2	13.96 ± 6.74	7.44 ± 2.49	(5.33 ± 3.13) x 10 <sup>5</sup>
SUMO2-SENP2	0.081 ± 0.023	4.83 ± 0.45	$(5.93 \pm 1.78) \times 10^7$