

**Table S3. Phosphorylation of ADK and GST-SAMS by SnRK1-KD expressed in *N. benthamiana***

SnRK1-KD or SnRK1-KD-K49R* (ng)	Substrate	SnRK1 activity
10	auto†	235904
30*	auto†	23421
10	auto	22631
10	ADK	84421
30*	ADK	34076
10	GST-SAMS	261765
30*	GST-SAMS	15157

† Not pre-incubated with unlabeled ATP

Activity values (in arbitrary units) were obtained by measuring signal intensity of <sup>32</sup>P-labeled SnRK1-KD (10 ng) or SnRK1-KD-K49R (30 ng) from PAGE gels exposed to a phosphorimager (autophosphorylation, Figure 5A). Activity values are also included for SnRK1-KD pre-incubated with cold ATP (autophosphorylation), and pre-incubated SnRK1-KD (10 ng) or SnRK1-KD-K49R (30 ng) + ADK in the presence of <sup>32</sup>P-ATP (Figure 5B). Images used for GST-SAMS incubated with the same SnRK1-KD (10 ng) or SnRK-KD-K49R (30 ng) preparations and <sup>32</sup>P-ATP are shown in Figure 1C.