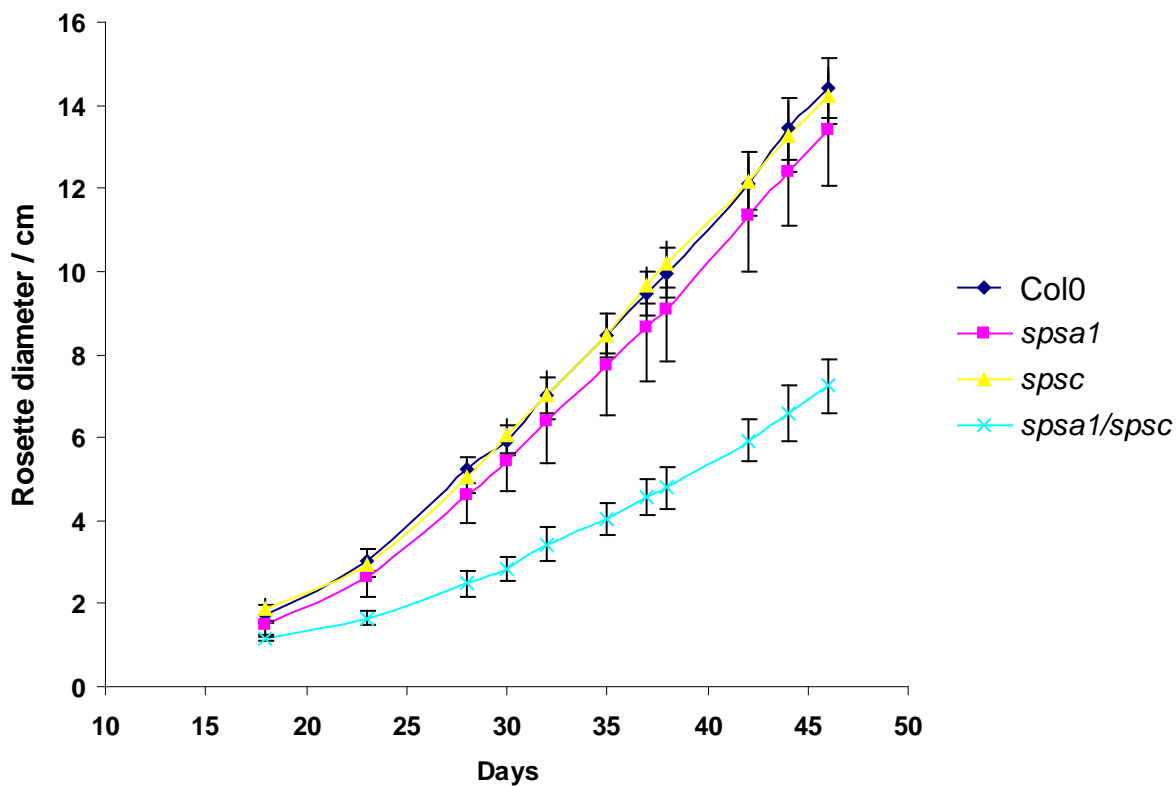


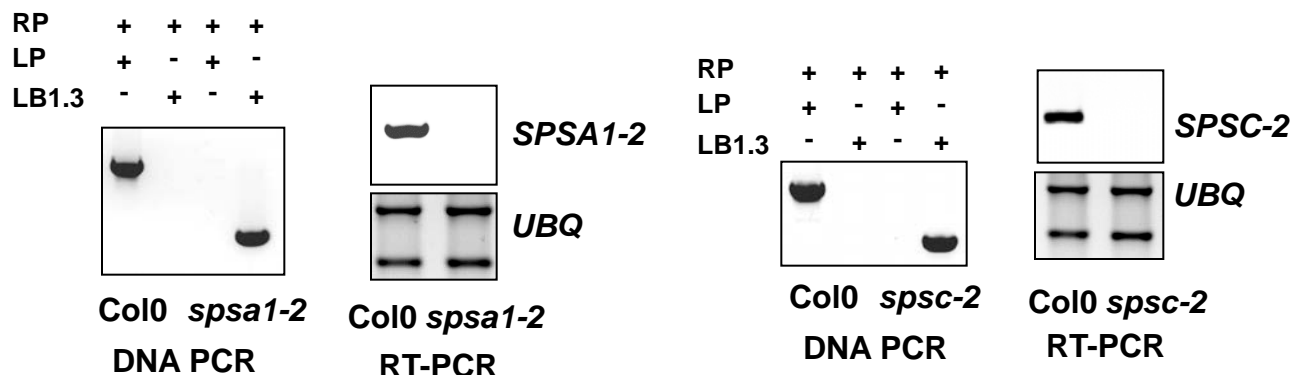
Volkert et al. Supplementary Figure S1



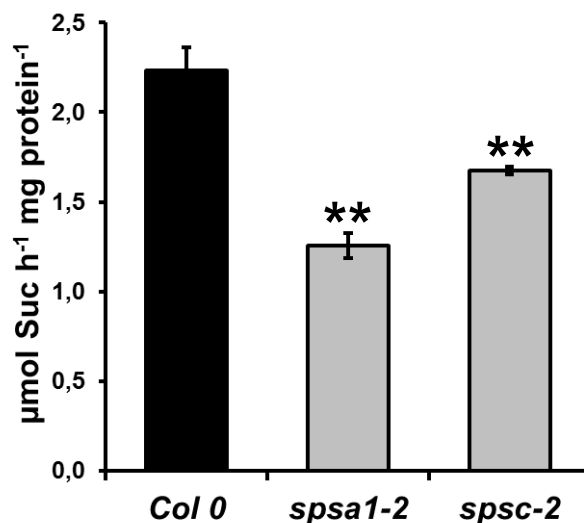
Supplementary Figure S1. Rosette diameter as a proxy for plant growth on soil under short day (8h light/ 16h dark) conditions. Each value is the mean \pm SD of at least three measurements.

Volkert et al. Supplementary Figure S2

A



B



Supplementary Figure S2: Analysis of an independent set of SPS T-DNA insertion lines. A, genotyping (DNA PCR) and expression (RT-PCR) analysis of *SPSA1* and *SPSC* expression in the respective mutant background as compared to the wild type control (Col 0). *UBQ* serves as an internal control. D, SPS enzyme activity in *spsa1-2* and *spsc-2* knock-out lines as compared to the wild type control. The values represent the mean of at least 4 independent biological replicates \pm SD. ** indicates a significant difference to the control at $P < 0,001$ according to students *t* test.

Supplemental Table 1: Primers used in this study.		
Nucleotide sequence of gene-specific primers for protein expression in <i>S. cerevisiae</i>		
AtSPSA1	Fw	5'-CACCATGGCCGGGAACGATTGGG-3'
	Rv	5'-TCAGTCCTTGAGAAGCTCTAATTTC-3'
AtSPSA2	Fw	5'-CACCATGGTGGGAAACGACTGGGTGAATAG-3'
	Rv	5'-TCAAGGCTTGAGGAGACTGATCCCAAG-3'
AtSPSB	Fw	5'-CACCATGGCCGGGGAACGAGTGG-3'
	Rv	5'-TCAAGCAGTGGCTTTTCGAGAGCTG-3'
AtSPSC	Fw	5'-CACCATGGCAAGAAATGATTGGAT-3'
	Rv	5'-TACTTGATCCCATAGGCCTCT-3'
Nucleotide sequence of gene-specific primers for construction of promoter-GUS constructs		
AtSPSA1	Fw	5'-ATCGATAAGATTGTTCTGTTGGTG-3'
	Rv	5'-GAATTCCTGGTGGGACGATCAAAG-3'
AtSPSA2	Fw	5'-ATCGATCACTAATACTAACGAATG-3'
	Rv	5'-GAATTCCTGGTGGTTCGCTCTCCCGAAC-3'
AtSPSB	Fw	5'-ATCGATGAAGCCAATCTTAGTAAATG-3'
	Rv	5'-GAATTCCTCTGAGTTTGCCTCTGTTTC-3'
AtSPSC	Fw	5'-ATCGATCTTGTGTAGTAATGCATTC-3'
	Rv	5'-GAATTCCTCTCTGATTGTTGCACTG-3'
Nucleotide sequence of gene-specific primers for used to confirm T-DNA insertions		
SALK_148643_LP		5'-TTCTAATAATGTTGCGCCTGG-3'
SALK_148643_RP		5'-CACCGGGTATGTGTTTTTACG-3'
SALK_099817_LP		5'-CTCTCAAAGGAGATCACGTCG-3'
SALK_099817_RP		5'-AGCTCCATGGATAGGAAGAGC-3'
SALK_037958_LP		5'-GTAGTTACGGCAGTGCTCTGG-3'
SALK_037958_RP		5'-GTGAATGTCAGCCTCTTCGAG-3'
SALK_020179_LP		5'-AATGCCACAAAGACAGGTCAG-3'
SALK_020179_RP		5'-TTTTCAATATGCTCGTGGGAC-3'
LBb3.1		5'-ATTTTGCCGATTTTCGGAAC-3'
AtSPSA1	Fw	5'-CGAGCAGATTGTCCTTGTCT-3'
	Rv	5'-AAAGGAGATCACGTCCGGTGAAG-3'
AtSPSA2	Fw	5'-ACTCTACTTCACGTCCTCTGG-3'
	Rv	5'-CGGGTTGCTCACGCAAGTC-3'
AtSPSB	Fw	5'-GATCAGGCATCTAGCAATTCCC-3'
	Rv	5'-TCAGAACCCAATGTGACGAGC-3'
AtSPSC	Fw	5'-CTACCTATCCCATGTCGAACAT-3'
	Rv	5'-GCCTAAGGTCATCGACTCTTC-3'
UBQ	Fw	5'-ATGCAGATYTTTGTGAAGAC-3'
	Rv	5'-ACCACCACGRAGACGGAG-3'
Nucleotide sequence of gene-specific primers used for qPCR		
AtSPSA1	Fw	5'-GCAGCGGTACCTCCAGTAAG-3'
	Rv	5'-CACCGGACGAACAAATACCT
AtSPSA2	Fw	5'-AGTGAAAGATCCCGCTTTGA-3'
	Rv	5'-ACCTAAGGGCCTGAGATCGT-3'
AtSPSB	Fw	5'-ACGAGAATGCAGATCGTTCC-3'
	Rv	5'-CGGAGAAGAGCATCAGAACC-3'
AtSPSC	Fw	5'-CGGAGAAGAGCATCAGAACC-3'
	Rv	5'-AATGGGCAGACCATAAGCAG-3'
18S rRNA At	Fw	5'-AAACCCCGACTTATGGAAGG-3'
	Rv	5'-CGAACCTAATTCTCCGTCA-3'