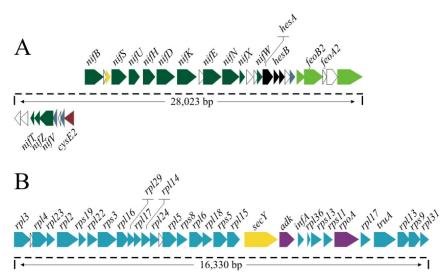
## **Supporting Information**

Stöckel et al. 10.1073/pnas.0711068105



**Fig. S1.** Chromosomal organization of genes involved in nitrogen fixation (*A*) and genes encoding ribosomal proteins (*B*). The arrows indicate the direction of transcription. Genes are colored according to the functional categories in CyanoBase (http://bacteria.kazusa.or.jp). Labeled arrows represent genes of known function. The length of each gene cluster is given in bp.

## Table S1. Primers used for real-time PCR

ORF*/Annotation†	Forward primer sequence	Reverse primer sequence	
cce_0565/nifX	GACCCCCATTAAAGCGAGAA	TTAACCAAGGAGGCGGATTT	
cce_4716/kaiC2	CGTGGGGTGGTGATTATTCC	ACCCACCACCGCACATTCTA	
cce_3501/psbA1	ATCTTTATTCTCCGCTATGC	TCTTGTCCGAACTTGTAACC	
cce_0435/kaiB3	GGGAACAGGAGCTAAAAACT	ATGACCGGAAACAAAAAGAC	
cce_0989/psaA	TGCCACCCTATCCCTACCAG	GGGCTCCAGCACCAACTATT	

<sup>\*</sup> ORFs are labeled according to the deposited genome sequence in GenBank (accession nos. CP000806–CP000811). †Annotations were manually curated, based on sequence homology to other known proteins.

Table S2. Comparison of log<sub>2</sub> ratios and fold changes observed from microarray and real-time PCR

ORF*/Annotation†	Experiment	Log₂ ratio	Fold change	Time point
cce_0565/nifX	Microarray	-5.489	30.129	L5-1
	Real-time PCR	-7.146	51.067	
cce_0565/nifX	Microarray	0.896	0.802	D5-2
	Real-time PCR	0.000	0.000	
cce_4716/kaiC2	Microarray	-0.207	0.043	L5-1
	Real-time PCR	-0.808	0.653	
cce_3501/psbA1	Microarray	0.200	0.040	L5-1
	Real-time PCR	0.123	0.015	
cce_0435/kaiB3	Microarray	-1.681	2.826	D9-1
	Real-time PCR	-1.903	3.623	
cce_0989/psaA	Microarray	0.325	0.106	L5-1
	Real-time PCR	0.087	0.008	

<sup>\*</sup> ORFs are labeled according to the deposited genome sequence in GenBank (accession nos. CP000806-CP000811).

## **Other Supporting Information Files**

Table S3 (XLS)

Table S4 (XLS)

Table S5 (XLS)

Table S6 (XLS)

Movie S1(MOV)

<sup>&</sup>lt;sup>†</sup>Annotations were manually curated, based on sequence homology to other known proteins. The time points are labeled as D5, D9 for 5, 9 hrs in the dark, and L5 for 5 hrs in the light. The extensions (-1) and (-2) indicate the corresponding diurnal cycle. The values for the microarray analyses are given as the average  $\log_2$  ratios and corresponding fold changes of the replicates for each time point (n = 12). The values for the Real-time PCR are given as the average  $\log_2$  ratios and corresponding fold changes for four replicates (n = 4).