

MS title: Overproduction and easy recovery of target gene products from cyanobacteria, photosynthesizing microorganisms

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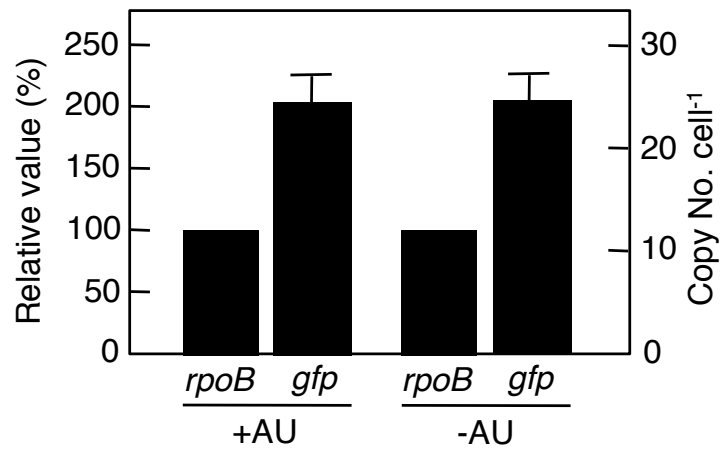


Fig. S1 Q-PCR for analysis of copy number of expression vectors in the PCC 6803 transconjugants. Quantitative real-time PCR was done in a 30- μ l reaction solution containing 1 μ l of total DNA (prepared from the transconjugants: +AU = 6803_GFP500, -AU = 6803_GFP461c; see Table 1 of main manuscript), 20 pmol of the primers (6803rpoB-QF and 6803rpoB-QR for the *rpoB* gene in the genome, GFP-F and GFP-QRT for the *gfp* gene in the expression vector), and 15 μ l of substrate mixture. The abundance of the PCR products was measured and presented as relative values (%) with standard deviation in triplicate experiments. Copy numbers are also shown and based on 100% of the value for the *rpoB* gene which exists as one copy in PCC 6803 genomic DNA (12 copies of genomic DNA per cell, see text of main manuscript).