Supplementary Information

Table S1. Bacterial strains and plasmids.

Strain or plasmid	Description	Reference
***E. coli* strains**		
JM109	Cloning strain	New England Biolabs
S17-1	Donor strain for diparental conjugation	(1)
***R. sphaeroides* strains**		
2.4.1	Wild type	(2)
Plasmids		
pJET1.2/blunt cloning vector	Ap^r, 2.97 kb	Fermentas
pRK4352	Empty vector control; Tc^r	(3)
pRK*ccaF1*	Constitutive overexpression of CcaF1 (RSP_6037); Tc^r	(4)
pRK*ccaF1*_3xFLAGnt	Overexpression of CcaF1 (RSP_6037) with an N-terminal 3xFLAG-Tag; Tc^r	(4)

Table S2. Oligodeoxynucleotide sequences.

Name	Sequence 5′-3′	Reference
RT-PCR		
CcaF1_f	GTCTGGGAGACCGTGTTTCG	This study
CcaF1_r	CCGTAGGCGGCTTCCATC	This study
pufBA_f	ATCACCGCGAGGAGGACAG	(5)
pufBA_r	ACATCTGGCGTCCGTGGTTC	(5)
pufL_f	ACACCTACGGCAACTTCC	This study
pufL_r	ATCGAGTAGCCGACCAGA	This study
pucBA_f	CGAAGCCGAACAAGTTCA	(4)
pucBA_r	TTCACCACGAGCCAGATT	(4)
bchE_f	CGCGATCAGGTCGAGGTCTTC	This study
bchE_r	CCAAGTCGTAGAAGGTTCGCCC	This study
bchB_f	GCTGCTCTACCCCGAGACC	This study
bchB_r	CGAACAGGAACACGCGCTTG	This study
bchN_f	TCGAGGAGAAGGATCTCG	This study
bchN_r	GAGCCGGAGAAGTTGTAGAC	This study
bchL_f	CGATCAGGCGGTGGTGGT	This study
bchL_r	CGTCGAGGTCCGGCATGT	This study
bchM_f	GAGGGTCGCGACACGATGC	This study
bchM_r	GAAGGTCACGCGGTCCTGATG	This study
appA_f	ACGCTTGTTTCAGGGGCT	This study
appA_r	CGCGCAGCGTCAGATCC	This study
fnrL_f	CCGTGGCCTATGACGTGACC	(6)
fnrL_r	GCAGGCTCGCGATCTTCTCG	(6)
ppaA_f	TTTGACGCCATAATGATTTC	This study
ppaA_r	GTCGTTCGTCACGATGTC	This study
ppsR_f	GAGCCGGAGAAGTTGTAGAC	This study
ppsR_r	CATAAAGGGCGAAGGTGT	This study
rpoZ_f	ATCGCGGAAGAGACCCAGAG	(5)
rpoZ_r	GAGCAGCGCCATCTGATCCT	(5)
PcrZ_f	GGAGTGGTAACGAGTATCCGGC	(4)
PcrZ_r	GACCACGCGTATCGAGTCGA	(4)
bchH_f	ATCCCTCCATCGTGAAGCTCAC	(4)
bchH_r	TAGCGGACCATCTGCTCGAGGT	(4)

Northern Blot		
p-CcsR1	CGTCGCCGCTGCTGCTACAGGTC	(7)
p-pufBA_f	ACATCTGGCGTCCGTGGTTC	This study
p-pufBA_r	ATCACCGCGAGGAGGAACAG	This study
p-pucBA_f	GCCGAAGAAGTTCATAAGCAA	This study
p-pucBA_r	CAGCCGAGCCTTGGTAGTAG	This study
p5S	CTTGAGACGCAGTACCATTG	(8)
p14S	CTTAGATGTTTCAGTTCCC	(9)

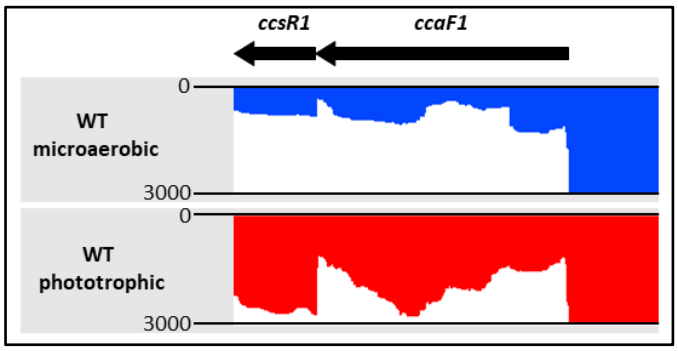

Figure S1. Read coverage of the *ccaF1* mRNA in the *R. sphaeroides* wild type under microaerobic and phototrophic conditions. The screenshot was taken from the Integrated Genome Browser and displays the total read coverage from RNA-seq data obtained from microaerobically (blue) and phototrophically (red) grown wild type of *R. sphaeroides* in exponential growth phase. The merged read coverage of biological triplicates is shown. The read count scale is given as numbers (0-3000).

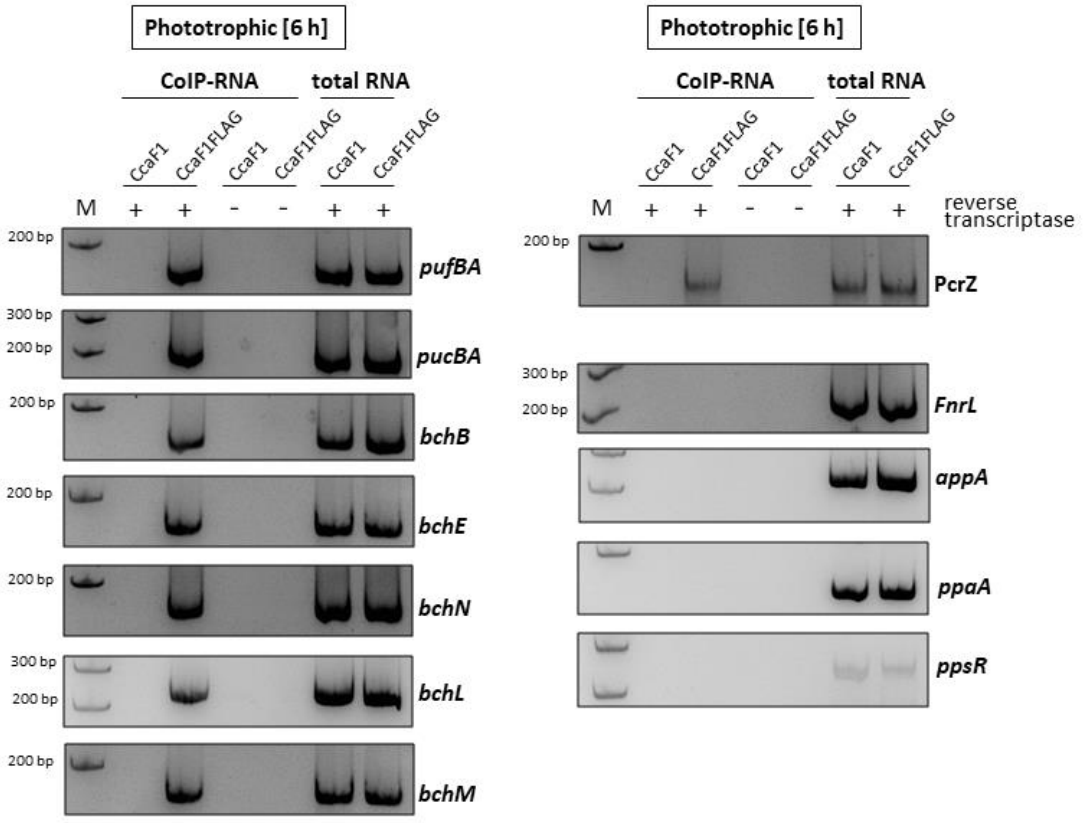

Figure S2. Validation of co-immunoprecipitated RNAs by real-time RT-PCR. The specific non-coding RNAs and mRNA transcripts of the coimmunoprecipitation were analyzed by real-time RT-PCR. The RT-PCR amplicons were separated on a 10% polyacrylamide gel and visualized by ethidium-bromide staining.

References

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