

1 **SUPPLEMENTARY MATERIAL**

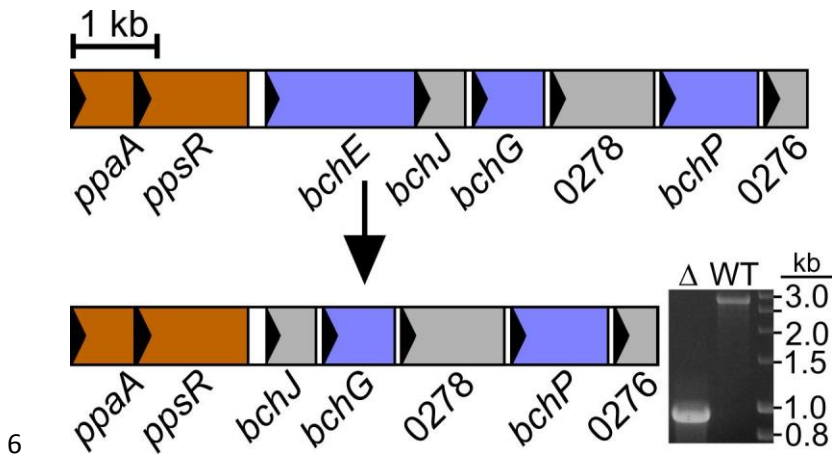
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Primer	Sequence (5'-3')	Restriction site
bchEUpF	CTGCCC <u>GGGCGACGGGCGTGATCGACGAGCCC</u>	SmaI
bchEUpR	GGAATTCCATATGTGGACTCCCGCTGTGTCCATTT	NdeI
bchEDownF	GGAATTCCATATGACCGCGCATGACCAGCGG	NdeI
bchEDownR	GCAAGCTTGGAAATGTTTGGCGATGGCCGTGG	HindIII
bchECheckF	GCAGATTGCCGCAGAGATCTCG	
bchECheckR	GGTCCGGGCAATCTCGAATGAC	
ccoPUpF	CCGGAATTCGTTCTCTCGCACACCGTGATC	BamHI
ccoPUpR	GGATTACTCACTCATTTCCTCGCCTCCTCGG	
ccoPDownF	GAAATGAGTGAGTAATCCAAGGAGCTGAAGCGG	
ccoPDownR	CCGCAAGCTTCAGATCGACGAGGATCGCCTG	HindIII
ccoPCheckF	CTACGTCTGTACAGCCAGATGATC	
ccoPCheckR	GCTCGACGAGGATGAAGAGATCG	
0294UpF	CGCGGATCCCCTTCGAGCGGATGCTGTCC	EcoRI
0294UpR	CCGGTGATCGTCAGAAGTCACATATGGTCACCTGCTCGGAGAAGGAG	
0294DownF	CTCCTTCTCCGAGCAGGTGACCATATGTGACTTCTGACGATCACCGG	
0294DownR	CCCAAGCTTCCCGTGATGACGCCCGACAGG	HindIII
0294CheckF	CCGAGCTCCAGGCATTTCGGACC	
0294CheckR	GCCCCGAGGAATCGCTCGG	
RT0294F	ATCGCTTCCACCCGATCTTC	
RT0294R	CGGATCGGTCTTCATCAGCA	
RTrpoZF	GACGGTTGAAGACTGCGTTG	
RTrpoZR	GTTCTTGTCATTGTCGCGGT	

3 **Table S1. List of primers used in this study**

4 Restriction sites used for cloning are underlined in the sequence.

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7 **Fig. S1. Construction of $\Delta bchE$**

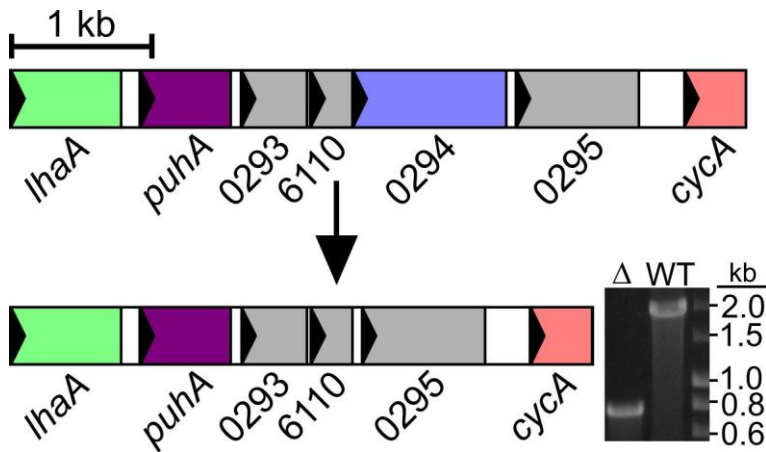
8 Diagram depicting the deletion of *bchE* and confirmation by colony PCR (inset). Genes encoding

9 BChl biosynthesis enzymes and regulatory elements are colored in blue and amber, respectively.

10 ORFs encoding proteins of unknown function are colored in grey. Numbered loci are prefixed with

11 'rsp_' (e.g. 0278 = rsp_0278).

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14 **Fig. S2. Construction of Δ rsp_0294**

15 Diagram depicting the deletion of *rsp_0294* and confirmation by colony PCR (inset). Genes
 16 encoding BChl biosynthesis enzymes, assembly factors, reaction center subunits and cytochromes
 17 are blue, green, purple and pink, respectively. ORFs encoding proteins of unknown function are
 18 colored in grey. Numbered loci are prefixed with 'rsp_' (e.g. 0293 = *rsp_0293*).