TABLE S1. Primers used in the construction of plasmids and strains are described below. Primers 1-2 were used to insert a SwaI site into pGY46. Primers 3-6 were used to amplify *R. aetherivorans* I24 PHA synthase genes. Primers 7-8 were used to amplify *P. aeruginosa phaJ1*. Primers 9-10 were used to amplify the PHA operon from Re2152 so that it could be cloned into pBBR1MCS-2. Primers 11-16 were used to delete *proC* from the *R. eutropha* genome. Primers 17-18 were used to amplify the *proC* region of the *R. eutropha* genome so that it could be cloned into pCB81.

Primer	Name	Sequence (5' to 3')	Comment
1	pGY46 SwaI F	GGCAGAGAGACAATCAAATCATTTAAATGCTTGCATGAG	SwaI site underlined
2	pGY46 SwaI R	GATTTGATTGTCTCTCTGCCGTCACTATTC	
3	*phaC1* Ra F	ATTTAAATAGGAGATGTCCCATGCTCGACCA	SwaI site underlined
4	*phaC1* Ra R	ATTTAAATCAGCTGAAGACGTACGT	SwaI site underlined
5	*phaC2* Ra F	ATTTAAATAGGAGGAGGCGCATGATGGCCCA	SwaI site underlined
6	*phaC2* Ra R	ATTTAAATCAGCCGGCGGGCAGGTCGCGCA	SwaI site underlined
7	*phaJ1* Pa F	GGCGCGCC*AAGGAGATCTCC*ATGAGCCAGGTCCAGAACATTCC	AscI site underlined, RBS italicized
8	*phaJ1* Pa R	GGTTAATTAAGACGGTAGGGAAAGCCGCTCAGCCGATGCTGATCG	PacI site underlined
9	PHA operon F	GATATCGGTACCCATCCTTCTCGCCTATGCTC	KpnI site underlined
10	PHA operon R	GATATCAAGCTTCTGCCCTGATTCTATGCCCAAC	HindIII site underlined
11	*proC* upstream F	CGGATCCCTACGTCCAGGAAGGCGTCGAC	BamHI site underlined
12	*proC* upstream R	GCCGATTTAAATGCCGATCGAGCATGGAGATCCGTTG	Overlap region with SwaI site underlined
13	*proC* downstream F	CGGCATTTAAATCGGCATTGAGGCGCGGCCAAAC	Overlap region with SwaI site underlined
14	*proC* downstream R	CGGATCCCCGTTCTTCAAGCGCTTCTTTGCG	BamHI site underlined
15	*proC* diag F	GGTCAATATCAGCGGCGAAG	
16	*proC* diag R	CGATCATGCTCTGCTATGCC	
17	*proC* region clone F	GACCGGTGGACATCCTTGTGCGTCATC	AgeI site underlined
18	*proC* region clone R	GACCGGTGGTATCATTACACGCTGATTCGTGAC	AgeI site underlined