Figure S1. Phylogenetic tree of PhaC subunits of class IV PHA synthases in the genus *Bacillus*. The tree was rooted using *Ralstonia eutropha* H16 PhaC as the outgroup, and constructed by the CLUSTAL W algorithm. The scale bar indicates 0.1 substitutions per amino acid position. An accession number is given for each sequence.

Table S1. Extracellular metabolites of *E. coli* JM109 harboring different copy number plasmid.

Introduced plasmid	Cultivation time (h)	Concentration in medium (g/L) [a]				pH of medium
		Glucose	Lactate	Acetate	Ethanol	
pGEM-*phaRC*$_{YB4}$*AB* (high copy number)	0	20	nd	nd	nd	7.33 ± 0.03
	12	5.58 ± 0.73	0.36 ± 0.00	0.23 ± 0.03	0.50 ± 0.01	5.52 ± 0.06
	24	nd	nd	nd	0.72 ± 0.05	7.84 ± 0.06
	48	nd	nd	nd	0.46 ± 0.06	8.65 ± 0.06
	72	nd	nd	nd	0.30 ± 0.09	8.63 ± 0.06
pBBR1- *phaRC*$_{YB4}$*AB* (low copy number)	0	20	nd	nd	nd	7.29 ± 0.01
	12	9.83 ± 0.03	nd	0.51 ± 0.01	0.09 ± 0.01	5.12 ± 0.02
	24	8.21 ± 0.02	nd	1.24 ± 0.04	0.11 ± 0.01	4.83 ± 0.02
	48	7.20 ± 0.09	nd	1.50 ± 0.01	0.11 ± 0.01	4.74 ± 0.01
	72	7.15 ± 0.13	nd	1.48 ± 0.02	0.09 ± 0.02	4.74 ± 0.01

Cells were cultured in LB medium containing glucose (20 g/L) at 37 ˚C.

[a] Concentrations of metabolites except for ethanol were determined by HPLC analysis. Ethanol was determined using the F-kit (Roche Diagnostics).

Results are mean ± standard deviation from three separate experiments. nd: not detectable.