

[Supplementary materials]

**Quantified high-throughput screening of
Escherichia coli producing poly(3-hydroxybutyrate)
based on FACS**

**Jae Hyung Lee, Seung Hwan Lee, Sung Sun Yim, Kyoung-
Hee Kang, Sang Yup Lee, Si Jae Park, Ki Jun Jeong**

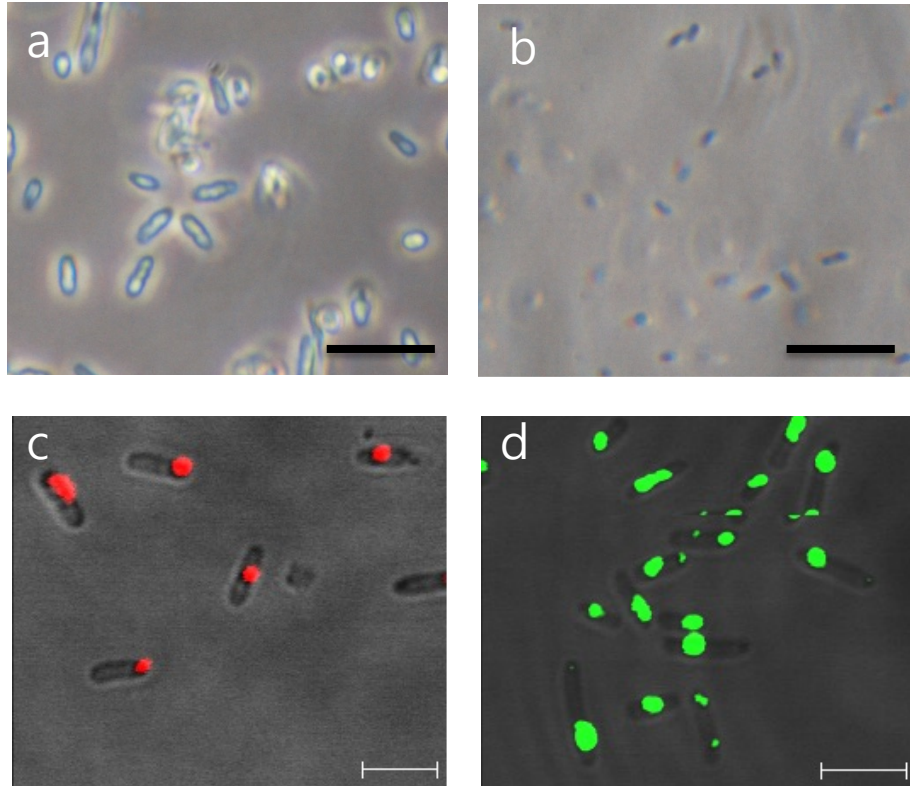


Fig. S1. Microscopic images of P(3HB) granules in *E. coli* cells transformed with pCnCAB. (a, b) After cultivation, the P(3HB) granules were observed by light microscope. (c, d) After cultivation, cells were stained with (c) Nile Red or (d) BODIPY, and their fluorescence image analyzed using confocal fluorescence microscope. Excitation wavelength was 488nm. Band pass 500 nm ~ 550 nm and long pass 560 nm filters were used for BODIPY and Nile Red, respectively. In (a) and (b), scale bar = 20 μm ; In (c) and (d), scale bar = 5 μm .

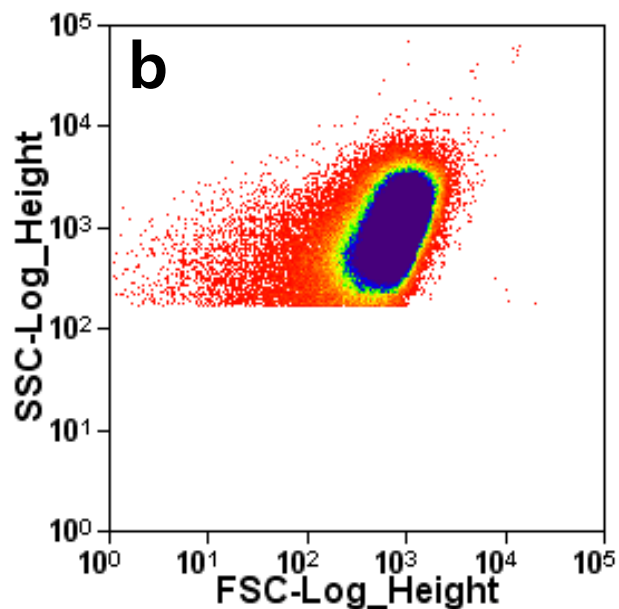
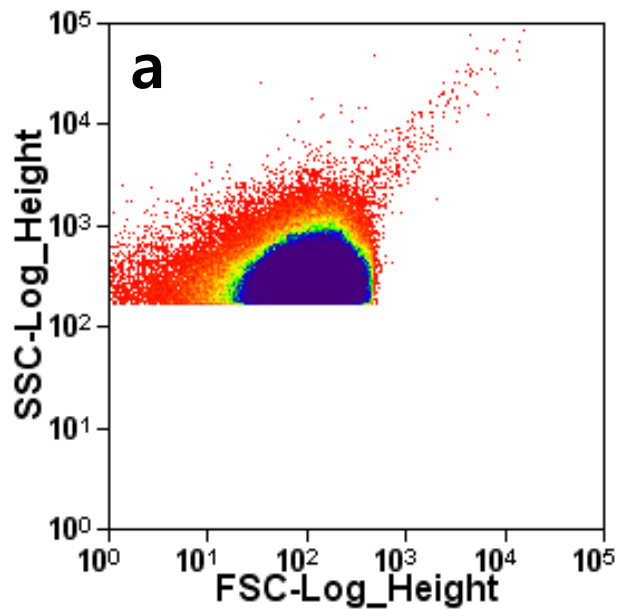


Fig. S2. Bivariate distribution of FSC and SSC in FACS analysis of *E. coli* cells (a) non-producing or (b) producing P(3HB).