

Figure S1. SDS-PAGE analysis of the sorted cells by FACS. After cell sorting, all 14 individual clones were cultured and soluble lysates were prepared by centrifugation following sonication. WT means wild type *C. glutamicum* harboring pCES-H36-GFP. Lanes 1 to 14: clones isolated by FACS screening. Lane M: molecular weight markers (kDa). Arrows indicate the GFP.

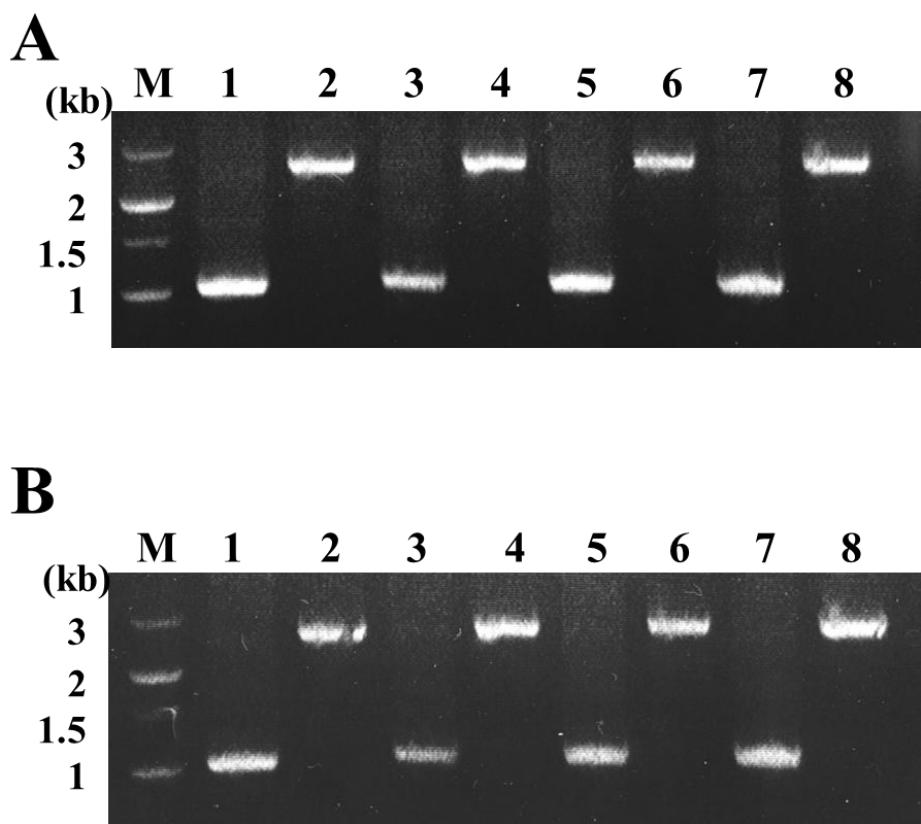


Figure S2. Confirmation of IS element deletion by agarose gel electrophoresis of PCR samples. (A) Confirmation of *IS-Cg1* deletion. Odd number and even number lanes mean PCR product obtained from WJ004 and wild type *C. glutamicum*, respectively. Lanes 1 and 2, *IS-Cg1a*; lanes 3 and 4, *IS-Cg1b*; lanes 5 and 6, *IS-Cg1d*; lanes 7 and 8, *IS-Cg1e*. Lane M mean the DNA molecular size markers (kb). In WJ004 strain, *IS-Cg1* (~2400 bp) was deleted in each position and the reduced size of PCR product could be obtained. (B) Confirmation of *IS-Cg2* deletion. Odd number and even number lanes mean PCR product obtained from WJ008 and wild type *C. glutamicum*, respectively. Lanes 1 and 2, *IS-Cg2b*; lanes 3 and 4, *IS-Cg2c*; lanes 5 and 6, *IS-Cg2d*; lanes 7 and 8, *IS-Cg2f*. Lane M mean the DNA molecular size markers (kb). In WJ008 strain, *IS-Cg2* (~2600 bp) was deleted in each position and the reduced size of PCR product could be obtained.

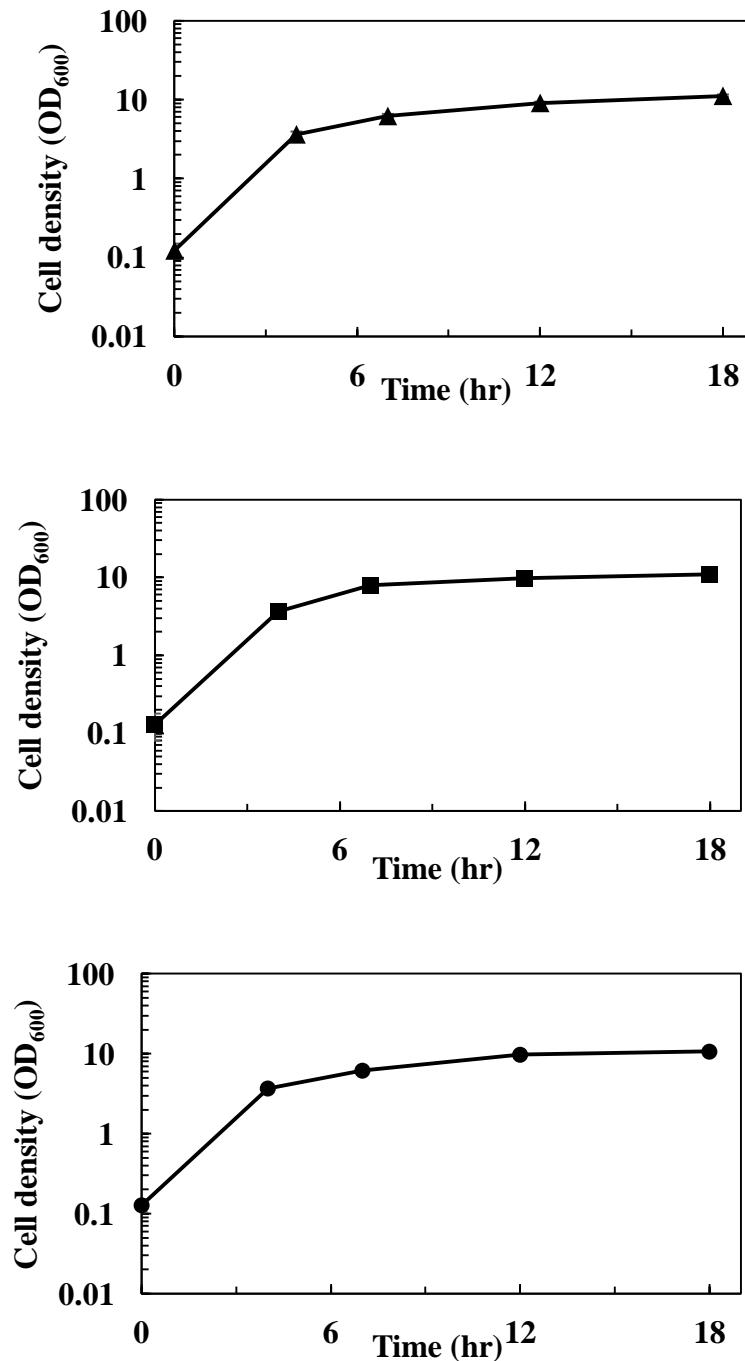


Figure S3. Growth profile of cells harboring pCES-H36-GFP. *C. glutamicum* WJ004 harboring pCES-H36-GFP and *C. glutamicum* WJ008 harboring pCES-H36-GFP are represented by squares (■) and circles (●), respectively. Triangles (▲) represent wild type *C. glutamicum* harboring pCES-H36-GFP, which was used as a positive-control.

