SUPPLEMENTARY APPENDIX

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to:
Characterization of a gene regulating antibiotic production in *Bacillus subtilis* BSD-2

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**Figure S1a** Plasmid transformants. Agarose gel electrophoresis of plasmid transformants. Lanes 1–3, purified plasmid from transformants; Lane 4, CK plasmid pHV1249; M, DL2000 marker.

**Figure S1b** Transformants PCR agarose gel. Lanes 1–6, plasmid from transformants; CK1, negative control; CK2, positive control; M, DL2000 marker.

**Figure S2** Transposon mini-Tn10 agarose gel of PCR products. Lanes 1–11, mutants; Lane 12, transformant genome; Lane 13, plasmid pHV1249; Lane 14, control BSD-2; M, DL2000 marker.
Figure S3a yodF PCR amplification products.
M, DL2000; Lanes 1–3, yodF gene 1.5 kb.

Figure S3b yodF gene transfer into E. coli enzyme digestion verification.
M, DMarker III; Lane 1, YodF gene vector digestion after connecting T.

Figure S4 Recombinant plasmid digestion verification.
M, DMarker III; Lane 1, Apol and SacI digestion; Lane 2, BamHI and HindIII digestion; Lane 3, SacI and HindIII restriction digest.
Figure S5 Kanamycin recombinant bacteria gene amplified by PCR electrophoresis. Lanes 1–2, kanamycin gene amplified by PCR; M, DL2000.

Figure S6 Validation of homologous recombination in selected strains. Lanes 1–3, cloned yodF gene strains; M, DMarker III.