

**Fig. S3.** Two-dimensional thin-layer chromatograms (TLC) showing the polar lipids profiles of strains D3-12<sup>T</sup> and G2-2<sup>T</sup>. Solvent systems: (I) chloroform-methanol-water (65:25:4, v/v/v) and (II) chloroform-acetic acid-methanol-water (80:15:12:4, v/v/v/v). The TLC plates were sprayed with 10% ethanolic molybdophosphoric acid (A), ninhydrin (B), Dittmer-Lester (C) and Dragendorff (D) reagents for the detection of total polar lipids, aminolipids, phospholipids, and phosphatidylcholine, respectively. The TLC plates for glycolipid detection using  $\alpha$ -naphthol/sulfuric acid reagent were not displayed, as no spots were observed. Abbreviations: PC, phosphatidylcholine; PG, phosphatidylglycerol; PE, phosphatidylethanolamine; DPG, diphosphatidylglycerol; AL, unidentified aminolipid; L, unidentified lipid.

