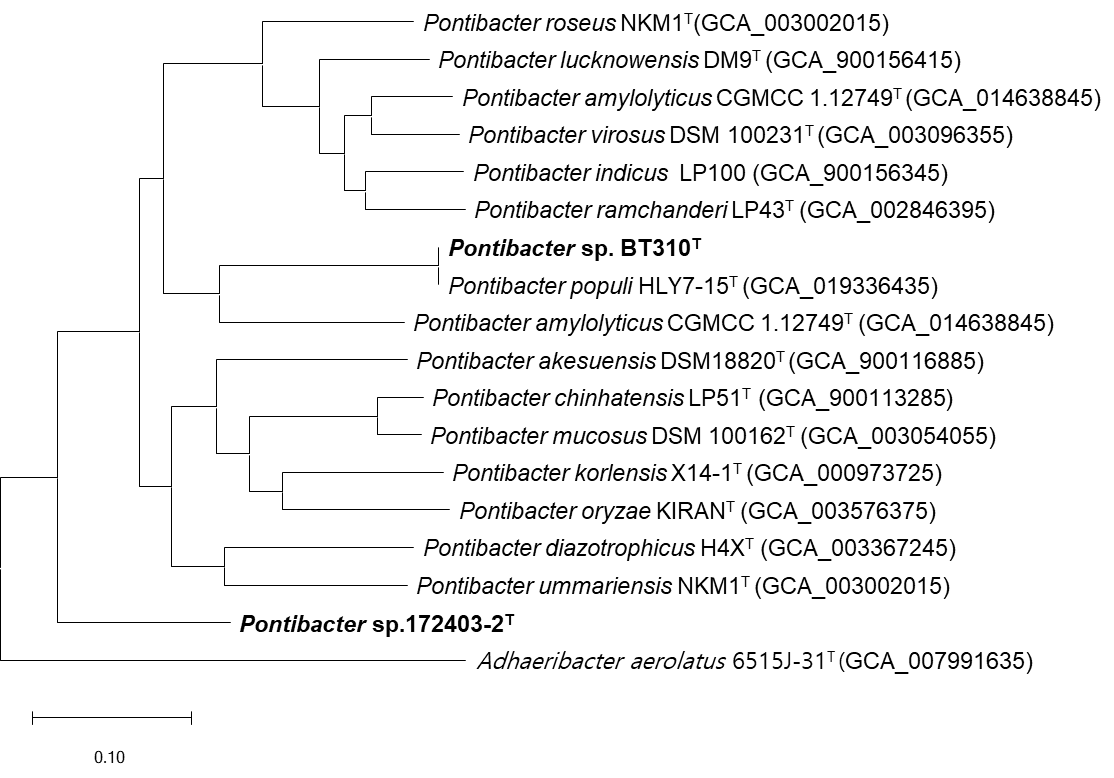
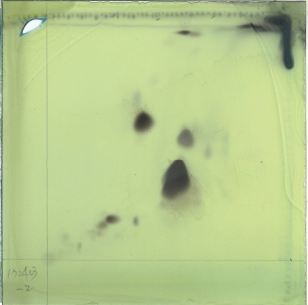
**Fig. S1.** The genomic phylogenetic tree based on orthologous protein and gene sequences derived using UBCG tool.

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**Fig. S2.** Polar lipid profile of strain 172403-2T, after two dimensional chromatography.

(a), total lipids; (b), phospholipids; (c), aminolipids; (d), glycolipids.

Abbreviations: L, lipid; PL, phospholipid; APL, aminophospholipid; PE, phosphatidylethanolamine; AL, aminolipid; GL, glycolipid.



**L1**

**L2**

**AL**

**PE**

**GL2**

**GL1**

**APL**



**PE**

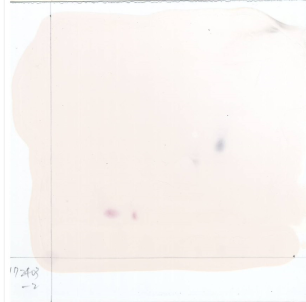
**APL**



**AL**

**PE**

**APL**



**GL2**

**GL1**

(a)

(b)

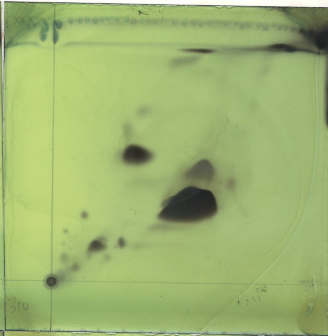
(c)

(d)

**Fig. S3.** Polar lipid profile of strain BT310T, after two-dimensional chromatography.

(a), total lipids; (b), phospholipids; (c), aminolipids; (d), glycolipids.

Abbreviations: L, lipid; PL, phospholipid; APL, aminophospholipid; PE, phosphatidylethanolamine; AL, aminolipid; GL, glycolipid.



**L1**

**L2**

**PL1**

**L3**

**L4**

**PE**

**L5**

**GL**

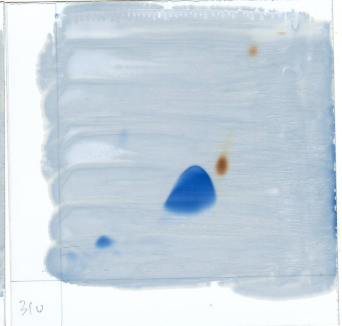
**APL**

**L6**

**PL2**

**L7**

**AL**

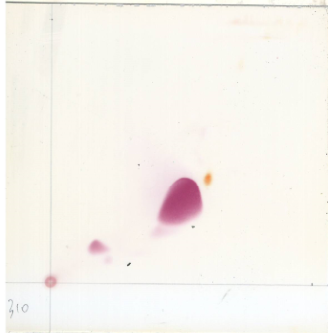


**PL1**

**PE**

**APL**

**PL2**



**PE**

**APL**

**AL**

(a)

(b)

(c)

(d)